PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7551848

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INTEL CORPORATION	11/30/2019

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	ONE APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 12

Property Type	Number
Application Number:	17440041
Application Number:	17439311
Application Number:	17441440
Application Number:	17441421
Application Number:	17440725
Application Number:	17440582
Application Number:	17442511
Application Number:	17438656
Application Number:	17438661
Application Number:	17440014
Application Number:	17438663
Application Number:	17439322

CORRESPONDENCE DATA

Fax Number: (877)769-7945

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: +1 (214) 292-4043
Email: hussian@fr.com, APSI@fr.com
Correspondent Name: ALYAMAN A. AMER
Address Line 1: FISH & RICHARDSON P.C.
Address Line 2: P.O.BOX 1022

Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	49176-0082US1
NAME OF SUBMITTER:	EMMA HUSSIAN
SIGNATURE:	/Emma Hussian/
DATE SIGNED:	09/22/2022

Total Attachments: 437

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PATENT ASSIGNMENT

This PATENT ASSIGNMENT, dated as of November 30, 2019 (this "Assignment"), is by and between Apple Inc., a California corporation, with an address at One Apple Park Way, Cupertino, CA 95014 (the "Assignee") and Intel Corporation, a Delaware corporation, with an address at 2200 Mission College Boulevard, Santa Clara, CA 95054 (the "Assignor"). Each of the Assignee and the Assignor are referred to herein as a "Party." Unless otherwise specifically provided herein, each capitalized term used but not defined herein shall have the meaning given to such term in the Purchase Agreement (as defined below).

RECITALS

WHEREAS, the Assignee and Intel are parties to that certain Master Asset Purchase Agreement, dated as of July 25, 2019 (as it may be amended from time to time) (the "Purchase Agreement"), by and among the Assignee and Intel; and

WHEREAS, pursuant to the Purchase Agreement, Intel has agreed to, and has agreed to cause certain of its Affiliates to, assign, transfer and convey to the Assignee all of Intel's and certain of its Affiliates' right, title, and interest in and to the Transferred Patents, and the Assignee has agreed to purchase the Transferred Patents.

AGREEMENT

NOW, THEREFORE, in consideration of the premises and the mutual promises and conditions hereinafter set forth and set forth in the Purchase Agreement and the Ancillary Agreements, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, do hereby agree as follows:

1. Conveyance and Acceptance. In accordance with and subject to the provisions of the Purchase Agreement, the Assignor hereby sells, assigns, transfers, conveys and delivers to the Assignee, and the Assignee hereby purchases, all of the Assignor's right, title and interest in and to, the Transferred Patents, including those Patents set forth on Schedule 1 hereto, along with any and all rights to sue and recover for past, present and future infringement, misappropriation, misuse or violation with respect to the Transferred Patents, together with all rights under international treaties relating to the Transferred Patents. The foregoing rights include the right to claim priority to the Transferred Patents. Without limiting the foregoing, with respect to any Transferred Patents that are registered to or otherwise in the name of an Affiliate of the Assignor, including as indicated on Schedule 1 hereto, the Assignor shall cause such Affiliate to effect the assignment of such Transferred Patents to the Assignee in accordance herewith and subject to the terms and conditions hereof, it being understood and agreed that the Assignee shall own such Transferred Patents as if assigned to it by the Assignor hereunder as of the date hereof.

2. Acknowledgement. To the extent that Schedule 1 hereto contains any typographical or administrative error but it is clear which patent or patent application was intended to be included in the sale, assignment, transfer and conveyance under this Assignment, the Assignor and the Assignee each acknowledge and agree that the intended patent or patent application is hereby

sold, assigned, transferred and conveyed, along with all other rights, privileges and claims enumerated above with respect to such intended patent or patent application.

3. Recordation. The Assignor hereby authorizes the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record the Assignee as the assignee and owner of the Transferred Patents and to deliver to the Assignee, and to the Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Assignment.

4. Disclaimer of Representations and Warranties. EXCEPT AS AND SOLELY TO THE EXTENT SET FORTH IN THE PURCHASE AGREEMENT, THE ASSIGNEE (ON BEHALF OF ITSELF AND EACH OF ITS SUBSIDIARIES) UNDERSTANDS AND AGREES THAT THE ASSIGNOR (ON BEHALF OF ITSELF AND ITS AFFILIATES) MAKES NO REPRESENTATIONS OR WARRANTIES IN ANY WAY PURSUANT TO OR IN CONNECTION WITH THIS ASSIGNMENT.

5. Purchase Agreement Controls. This Assignment is and shall be subject to and governed entirely by and in accordance with the terms and conditions of the Purchase Agreement. Notwithstanding any other provision of this Assignment to the contrary, nothing contained herein shall in any way supersede, modify, replace, amend, change, rescind, waive, exceed, expand, enlarge or in any way affect the provisions of the Purchase Agreement, including any representation, warranty, covenant, agreement, obligation or condition contained therein or the rights or remedies contemplated thereby. To the extent this Assignment conflicts with the Purchase Agreement, the Purchase Agreement will control.

6. Governing Law; Dispute Resolution.

(a) This Assignment, and all claims or causes of action based upon, arising out of, or related to this Assignment or the transactions contemplated hereby, shall be governed by and construed in accordance with the Laws of the State of Delaware applicable to contracts executed and to be performed wholly within such State and without reference to the choice-of-law principles that would result in the application of the Laws of a different jurisdiction.

(b) Sections 11.3(b) and 11.3(c) of the Purchase Agreement are hereby incorporated by reference, *mutatis mutandis*.

7. Further Assurances. The Assignor shall, and shall cause their Affiliates to, from time to time at the request of the Assignee, without any additional consideration, furnish the Assignee such further information or assurances, execute and deliver such additional documents, instruments and conveyances, and take such other actions and do such other things, as may be reasonably necessary or appropriate to carry out the provisions of this Assignment and give effect to the assignments herein, including all acts reasonably necessary to perfect, record or effectuate the assignment to the Assignee of ownership of the Transferred Patents.

8. Counterparts. This Assignment may be executed in multiple counterparts, and by any of the Parties in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same Assignment. Delivery

of an executed counterpart of a signature page to this Assignment by .pdf, .tif, .gif or similar attachment to electronic mail shall be as effective as delivery of a manually executed counterpart of this Assignment.

[*Signature Page Follows*]

PATENT
REEL: 061554 FRAME: 0014

IN WITNESS WHEREOF, the Parties have each caused this Assignment to be duly executed as of the date first written above.

LEGAL OK	
Carlos Rivas	11/30/2019

Intel Corporation, Assignor

By: _____
Name: Patrick Bombach
Title: Authorized Signatory

STATE OF)
COUNTY OF) ss.

On this _____ day of _____, 2019 before me _____

Personally appeared _____, proved to me on the basis of satisfactory evidence to the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Santa Clara)

On November 30, 2019 before me, Kevin Marston, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Patrick Bombach
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

KEVIN MARSTON
COMM. # 2165042
NOTARY PUBLIC - CALIFORNIA
SANTA CLARA COUNTY
COMM. EXPIRES SEPT. 19, 2020

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer — Title(s): _____	☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer Is Representing: _____	Signer Is Representing: _____

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AGREED TO AND ACCEPTED:

Apple Inc., Assignee

By: _____
Name: ADRIAN C. PERICA
Title: VP

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) ss.

On this 2 day of DEC, 2019 before me LESLIE HEADINGTON, NOTARY PUBLIC

Personally appeared ADRIAN PERICA, proved to me on the basis of satisfactory evidence to the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of CA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

LESLIE HEADINGTON
Notary Public - California
Santa Clara County
Commission # 2287875
My Comm. Expires Jun 5, 2023

Schedule 1
PATENTS AND PATENT APPLICATIONS

	A	B	C	D	E	F	G	H	I	J	K
1	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	NUMBER	NUMBER	NUMBER	ETSI	
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3	Low power mmWave receiver architecture with spatial compression interface	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/052066		WO2019/135733		
4	DATA FORWARDING TUNNEL ESTABLISHMENT BETWEEN TWO USER PLANE FUNCTIONS IN FIFTH GENERATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/043553		WO2019/027742	Yes	
5	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		
6	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		
7	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
8	NEW QUALITY BASED MEASUREMENT DEFINITION FOR NEW RADIO SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045546		WO2019/032539	Yes	
9	FRAME STRUCTURE FOR UNLICENSED NARROWBAND INTERNET-OF-THINGS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045250		WO2019/032383		
10	Efficient and private hash-based addressing mechanism with collision resolution for D2D systems	[redacted]	[redacted]	EPA	APP-Pending	EP	18836666.9		3543808		
11	CRITICAL DATA HANDLING FOR VIDEO AND OTHER APPLICATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046340		WO2019/033069	Yes	
12	PHASE SHIFTER FOR PHASED ARRAY ANTENNA	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2017/063882		WO2019/108190		
13	TECHNIQUES FOR DIGITAL BEAMFORMING AND MIMO DETECTION	[redacted]	[redacted]	EPA	APP-Pending	EP	17197843.4		3474506		
14	Novel multifeed predistorter with real time adaptation	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2017/066066		WO2019/117888		
15	TECHNIQUES TO PERFORM A RANDOM-ACCESS CHANNEL PROCEDURE FOR HANDOVERS IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045880		WO2019/032754	Yes	
16	TECHNIQUES TO PERFORM A RANDOM-ACCESS CHANNEL PROCEDURE FOR HANDOVERS IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/464758		US-2019-0313309-A1	Yes	
17	CONFIGURE MEASUREMENT GAPS FOR CSI-RS FROM NEIGHBOR CELLS IN NR	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/062479		WO2019/036138		
18	CIRCUIT AND A METHOD FOR OPERATING A CIRCUIT	[redacted]	[redacted]	NP	APP-Pending	US	15/937906		US-2019-0305732-A1		
19	PREDISTORTION CIRCUIT METHOD FOR GENERATING A PREDISTORTED BASEBAND SIGNAL CONTROL CIRCUIT FOR A METHOD FOR A PREDISTORTION CIRCUIT METHOD TO DETERMINE PARAMETERS FOR A PREDISTORTION CIRCUIT AND APPARATUS AND METHOD FOR PREDISTORTING A BASEBAND SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2017/068859		WO2019/132949		
20	UE (User Equipment) Assisted Measurement Gap in NR (New Radio)	[redacted]	[redacted]	NP	APP-Pending	US	16/136813		US-2019-0097777-A1	Yes	
21	BEAM RECIPROCITY INDICATION AND JOINT UPLINK DOWNLINK BEAM MANAGEMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	17805031.6		3536101	Yes	
22	SYSTEMS AND METHODS FOR CHANNEL ACCESS IN A MULTEFIRE ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/064653		WO2018/106658		
23	ENHANCED HANDOVER MECHANISM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/062290		WO2018/106429		
24	RESOURCE ALLOCATION AND DETAILED DESIGN FOR NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) WITH MULTIPLE SLOT DURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/066637		WO2018/132322	Yes	
25	RESOURCE ALLOCATION AND DETAILED DESIGN FOR NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) WITH MULTIPLE SLOT DURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201780077086.38		109964441	Yes	
26	Crosstalk Cancellation for Digital Predistortion Feedback Loop	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/025009		WO2019/190515		
27	INTERFERENCE MEASUREMENTS WITH UE BEAM INDICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/069074		WO2018/128940	Yes	
28	INTERFERENCE MEASUREMENTS WITH UE BEAM INDICATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112017006027		112017006042	Yes	
29	SYNCHRONIZATION SIGNAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/066549		WO2018/128867	Yes	
30	SYNCHRONIZATION SIGNAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201780077424.X		110073636	Yes	
31	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR INTERLEAVING IN MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) ARRANGEMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/066796		WO2018/128780	Yes	
32	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR INTERLEAVING IN MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) ARRANGEMENTS	[redacted]	[redacted]	PCT	APP-Pending	US	16/475733		US-2019-0334585-A1	Yes	
33	SYSTEMS METHODS AND DEVICES FOR MEETING CELLULAR DATA TURN AROUND TIME	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/068431		WO2018/128873	Yes	
34	SYSTEMS METHODS AND DEVICES FOR MEETING CELLULAR DATA TURN AROUND TIME	[redacted]	[redacted]	PCT	APP-Pending	US	16/475619		US-2019-0327026-A1	Yes	
35	BEAM-SPECIFIC POWER CONTROL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/026213		WO2019/067014	Yes	
36	CONNECTION POINT RELATED PERFORMANCE MEASUREMENTS IN A NETWORK FUNCTION VIRTUALIZATION ENVIRONMENT	[redacted]	[redacted]	NP	APP-Pending	US	16/126352		US-2019-0044838-A1	Yes	
37	MULTI-PATH DECODING OF POLAR CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/062092		WO2018/118289	Yes	
38	DESIGN OF DISCOVERY REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/064967		WO2018/106841		
39	DESIGN OF DISCOVERY REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	DE	112017006167.9		112017006167		
40	ELECTRICAL DEVICE ELECTRICAL SYSTEM WITH AN ELECTRICAL DEVICE AND METHOD TO PROVIDE AN ELECTRICAL DEVICE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2017/068868		WO2019/132950		
41	POWER HEADROOM OF GRANTLESS UPLINK	[redacted]	[redacted]	NP	APP-Pending	US	16/139443		US-2019-0045459-A1	Yes	
42	NEXT GENERATION NODE-B (GNB) AND METHODS FOR MOBILITY MANAGEMENT WITH SEPARATE USER PLANE AND CONTROL PLANE IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/181480		US-2019-0053027-A1	Yes	
43	DEVICE REQUESTED PROTOCOL DATA UNIT SESSION MODIFICATION IN THE 5G SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/158486		US-2019-0116518-A1	Yes	
44	5G RAN2 Multiple SR configurations DRX and BSR handling in multiple configured BWPs and CA	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/KR2018/011588		WO2019/066587	Yes	
45	Activation of Secondary Cell containing Bandwidth Parts	[redacted]	[redacted]	NP	APP-Pending	US	16/182488		US-2019-0045493-A1	Yes	
46	Bandwidth Part Signaling and Measurement Handling	[redacted]	[redacted]	NP	APP-Pending	US	16/186009		US-2019-0044689-A1		
47	SYSTEMS METHODS AND APPARATUSES FOR PROVIDING AND OBTAINING SCHEDULING INFORMATION FOR SIB1-BR DURING HANDOVER	[redacted]	[redacted]	NP	APP-Pending	US	16/142115		US-2019-0045419-A1	Yes	
48	DYNAMIC LOW IF MECHANISM FOR BLOCKER AVOIDANCE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/039731		WO/2019/005224		
49	SIGNALING RADIO BEARER TYPE 3 (SRB3) AND SECONDARY CELL GROUP (SCG) FAILURE HANDLING	[redacted]	[redacted]	EPA	APP-Pending	EP	18837015.5		3462804	Yes	
50	SIGNALING RADIO BEARER TYPE 3 (SRB3) AND SECONDARY CELL GROUP (SCG) FAILURE HANDLING	[redacted]	[redacted]	NP	APP-Pending	US	16/132596		US-2019-0045568-A1	Yes	
51	Multiple TNL associations between RAN and AMF for virtualized deployments stage-3 support	[redacted]	[redacted]	EPA	APP-Pending	EP	18839777.6		3662720	Yes	
52	VEHICLE TO EVERYTHING SYNCHRONIZATION REFERENCE SELECTION AND RESELECTION	[redacted]	[redacted]	NP	APP-Pending	US	16/148785		US-2019-0045479-A1	Yes	
53	RF power detector with a variable threshold	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/024819		WO2019/190866		
54	RELEASE OF EMERGENCY PDN BEARER FOR A VOLTE EMERGENCY CALL WITHOUT EMERGENCY REGISTRATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/061119		WO2019/079936	Yes	

	A	B	C	D	E	F	G	H	I	J	K
z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
55	EVOLVED NODE-B (ENB) FOR MANAGEMENT OF LONG TERM EVOLUTION (LTE) WIRELESS LOCAL AREA NETWORK (WLAN) AGGREGATION (LWA) AND LTE WLAN INTERNET PROTOCOL (LWIP)	[redacted]	[redacted]	NP	APP-Pending	US	16/151018		US-2019-0045560-A1		
56	RADIO LINK MONITORING (RLM) EVALUATION MECHANISM FOR NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/158787		US-2019-0052380-A1	Yes	
57	CONCEPT OF CAPACITOR SCALING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/024983		WO2019/190512		
58	Methods of Frequency Domain Intra-OFDM Symbol Multi RX-Beam Measurement and Dynamic RX Beam Sweeping for 5G NR mmWave	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2017/119942		WO2019/127403		
59	RESOURCE ALLOCATION DESIGN AND CONFIGURABLE DM (DEMODULATION)-RS (REFERENCE SIGNAL) FOR NR (NEW RADIO) UL (UPLINK) CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/068398		WO2018/128870	Yes	
60	RESOURCE ALLOCATION DESIGN AND CONFIGURABLE DM (DEMODULATION)-RS (REFERENCE SIGNAL) FOR NR (NEW RADIO) UL (UPLINK) CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	DE	112017005701.9		112017005701	Yes	
61	MEASUREMENT OF CROSSLINK INTERFERENCE IN A DYNAMIC TIME DIVISION DUPLEX (TDD) NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/068012		WO2018/128851	Yes	
62	MEASUREMENT OF CROSSLINK INTERFERENCE IN A DYNAMIC TIME DIVISION DUPLEX (TDD) NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	DE	112017005729.1		112017005729	Yes	
63	MULTI-CARRIER OPERATION FOR ENHANCED MACHINE TYPE COMMUNICATIONS IN UNLICENSED MEDIUM (EMTC-U)	[redacted]	[redacted]	NP	APP-Pending	US	16/160650		US-2019-0053064-A1		
64	APPARATUSES FOR SELECTING COMMUNICATION BEAMS BASED ON NORMALIZED TIME OF ARRIVAL (TOA) OF REFERENCE SIGNALS	[redacted]	[redacted]	NP	APP-Pending	US	16/163379		US-2019-0053234-A1		
65	ENABLING NETWORK SLICING IN A 5G NETWORK WITH CP/UP SEPARATION	[redacted]	[redacted]	NP	APP-Pending	US	16/175084		US-2019-0075552-A1		
66	ESTABLISHMENT OF RANDOM ACCESS CHANNEL COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/012685		WO2018/128334	Yes	
67	ESTABLISHMENT OF RANDOM ACCESS CHANNEL COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/476180		US-2019-0357272-A1	Yes	
68	LONG-TERM EVOLUTION WIRELESS LOCAL AREA NETWORK AGGREGATION ENHANCEMENTS FOR ENTERPRISE AND HOME USE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/067390		WO2018/128973		
69	TRANSMITTERS AND METHODS FOR OPERATING THE SAME	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/024455		WO2019/190469		
70	DISPLAY INTEGRATABLE HYBRID TRANSPARENT ANTENNA	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/061801		WO2019/103986		
71	RELIABLE DATA SERVICE PROTOCOL FOR CIOT DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/014488		WO2018/144289	Yes	
72	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
73	FILTER COEFFICIENT CONFIGURATION IN NEW RADIO SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	16/162541	10404335	US-2019-0058508-A1	Yes	
74	FILTER COEFFICIENT CONFIGURATION IN NEW RADIO SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/807126		US 2020-0007195 A1	Yes	
75	TRANSPORT NETWORK LAYER ASSOCIATIONS ON THE F1 INTERFACE	[redacted]	[redacted]	NP	APP-Pending	US	16/182019		US-2019-0075023-A1	Yes	
76	TRANSPORT NETWORK LAYER ASSOCIATIONS ON THE F1 INTERFACE	[redacted]	[redacted]	CNT	APP-Pending	US	16/408296		US 2020-0007195 A1	Yes	
77	METHODS AND DEVICES FOR RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	NP	APP-Pending	US	15/937943		US-2019-0305903-A1		
78	METHODS AND DEVICES FOR RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/019472		WO2019/190572		
79	FLEXIBLE FLOW CONTROL MECHANISM FOR NG-RAN INTERFACES	[redacted]	[redacted]	NP	APP-Pending	US	16/191760		US-2019-0150224-A1		
80	SEMI-PERSISTENT SCHEDULING FOR AUTONOMOUS TRANSMISSION ACTIVATION AND RELEASE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/014558		WO2018/136815		
81	SEMI-PERSISTENT SCHEDULING FOR AUTONOMOUS TRANSMISSION ACTIVATION AND RELEASE	[redacted]	[redacted]	PCT	APP-Pending	US	16/476035		US-2019-0349908-A1		
82	SYSTEMS METHODS AND DEVICES FOR USING S-MEASURE WITH NEW RADIO	[redacted]	[redacted]	NP	PAT-Active	US	16/173586	10447370	US-2019-0074887-A1	Yes	
83	SYSTEMS METHODS AND DEVICES FOR USING S-MEASURE WITH NEW RADIO	[redacted]	[redacted]	CNT	APP-Pending	US	16/548951		US 2020-0014447 A1	Yes	
84	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IOT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/016299		WO2018/144638		
85	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IOT)	[redacted]	[redacted]	PCT	APP-Pending	US	16/465978		US 2020-0029392 A1		
86	TRANSMISSION OF GROUP COMMON PDCCH (PHYSICAL DOWNLINK CONTROL CHANNEL) FOR NR (NEW RADIO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/016889		WO2018/145019	Yes	
87	TRANSMISSION OF GROUP COMMON PDCCH (PHYSICAL DOWNLINK CONTROL CHANNEL) FOR NR (NEW RADIO)	[redacted]	[redacted]	PCT	APP-Pending	US	16/464814		US-2019-0349904-A1	Yes	
88	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGMENT BUNDLING FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/017024		WO2018/145074		
89	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGMENT BUNDLING FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000238.1		112018000238		
90	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS OF SYNCHRONIZATION BASED ON SYNCHRONIZATION SIGNAL (SS) BLOCKS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/017048		WO2018/145081	Yes	
91	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS OF SYNCHRONIZATION BASED ON SYNCHRONIZATION SIGNAL (SS) BLOCKS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201880006108.5		110178324	Yes	
92	RESOURCE MAPPING AND MULTIPLEXING OF UPLINK CONTROL CHANNEL AND UPLINK DATA CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/017114		WO2018/145115	Yes	
93	RESOURCE MAPPING AND MULTIPLEXING OF UPLINK CONTROL CHANNEL AND UPLINK DATA CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	US	16/478040		US-2019-0335449-A1	Yes	
94	CONCATENATION OF SERVICE DATA UNITS ABOVE A PACKET DATA CONVERGENCE PROTOCOL LAYER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/014270		WO2018/144233	Yes	
95	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
96	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER BASED ON MULTI-CONNECTIVITY IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/016491		WO2018/144758	Yes	
97	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER BASED ON MULTI-CONNECTIVITY IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/479176		US 2019-0373519 A1	Yes	
98	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS OF PAGING IN ACCORDANCE WITH A RELAY ARRANGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/018375		WO2018/164821		
99	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS OF PAGING IN ACCORDANCE WITH A RELAY ARRANGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201880017325.7		110402605		
100	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
101	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
102	CONTROL RESOURCE BLOCK SET SEARCH SPACE DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/000089		WO2018/151871	Yes	
103	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
104	CONTROL RESOURCE BLOCK SET SEARCH SPACE DESIGN	[redacted]	[redacted]	PCT	APP-Pending	US	16/475552		US-2019-0350049-A1	Yes	
105	RESOURCE USAGE OPTIMIZATIONS IN AUTOMATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/038332		WO2019/099063		
106	PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) DEMODULATION REFERENCE SIGNAL (DMRS) TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/018109		WO2018/152353	Yes	
107	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
108	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
109	TECHNIQUES FOR CONTROLLING SPECIFIC ABSORPTION RATE OF RADIO ENERGY TRANSMISSION	[redacted]	[redacted]	EPA	APP-Pending	EP	19171855?		3567940		
110	TECHNIQUES FOR CONTROLLING SPECIFIC ABSORPTION RATE OF RADIO ENERGY TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	16/381554		US-2019-0349017-A1		
111	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING MULTIPLE CARRIERS WITH MULTIPLE ANTENNAS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/024984		WO2018/106748		
112	METHOD AND APPARATUS FOR STOCHASTIC RING OSCILLATOR TIME-TO-DIGITAL CONVERTER WITH INTERLEAVED LOOP COUNTERS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/025373		WO2018/190547		
113	SYSTEM INFORMATION ACQUISITION ENHANCEMENTS FOR WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/016613		WO2018/144836		
114	SYSTEM INFORMATION ACQUISITION ENHANCEMENTS FOR WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	16/480837		US 2020-0107247 A1		
115	EXIT CONDITIONS FOR CONDITIONAL HANDOVERS AND BEAM BASED MOBILITY STATE ESTIMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/019124		WO2018/156699	Yes	
116	EXIT CONDITIONS FOR CONDITIONAL HANDOVERS AND BEAM BASED MOBILITY STATE ESTIMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201880013609?		110326327		
117	EXIT CONDITIONS FOR CONDITIONAL HANDOVERS AND BEAM BASED MOBILITY STATE ESTIMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	187098546				
118	EXIT CONDITIONS FOR CONDITIONAL HANDOVERS AND BEAM BASED MOBILITY STATE ESTIMATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/479482		US 2019-0387449 A1	Yes	
119	SINGLE REGISTRATION MODE SUPPORT FOR INTERWORKING BETWEEN 5GC AND EPC	[redacted]	[redacted]	NP	PAT-Active	US	16/195147	10306580	US-2019-0159157-A1	Yes	
120	PHASE MODULATION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	APP-Pending	US	16/025148		US 2020-0007116 A1		
121	PHASE MODULATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/026977		WO/2020/009735		
122	BUFFER STATUS REPORT ENHANCEMENTS FOR TCP FLOW	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/014859		WO2018/140461	Yes	
123	BUFFER STATUS REPORT ENHANCEMENTS FOR TCP FLOW	[redacted]	[redacted]	PCT	APP-Pending	US	16/481792		US 2019-0387577 A1	Yes	
124	ELECTROMAGNETIC INTERFERENCE SHIELDING FOR A CIRCUIT BOARD	[redacted]	[redacted]	NP	APP-Pending	US	16/146501		US 2020-0107476 A1		
125	ELECTROMAGNETIC INTERFERENCE SHIELDING FOR A CIRCUIT BOARD	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/044436		WO/2020/068268		
126	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
127	[redacted]										
128	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
129	Mobile Communication System User Equipment Base Station Base Band Circuitry Methods Machine Readable Media and Computer Programs to Communicate in a Mobile Communication System	[redacted]	[redacted]	NP	APP-Pending	US	16/243206		US-2019-0215701-A1		
130	DETERMINATION OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL(PUCCH) RESOURCE FOR HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT (HARQ-ACK) FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/021149		WO2018/169937		
131	DETERMINATION OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL(PUCCH) RESOURCE FOR HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT (HARQ-ACK) FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	CN	201880017336?		110487192		
132	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
133	DETERMINATION OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE FOR HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT (HARQ-ACK) FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	US	16/482758		US 2019-0393952 A1		
134	Techniques for Improved Beam Management	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/020909		WO2018/165018		
135	Techniques for Improved Beam Management	[redacted]	[redacted]	PCT	APP-Pending	CN	201880008914?		110226291		
136	Techniques for Improved Beam Management	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000356?		112018000356		
137	Techniques for Improved Beam Management	[redacted]	[redacted]	PCT	APP-Pending	US	16/487155		US 2020-0059786 A1		
138	MONITORING CONTROL CHANNELS IN CONTROL RESOURCE SETS FOR NEW RADIO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/021212		WO2018/165202		
139	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
140	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
141	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
142	TRANSMISSION OF SYNCHRONIZATION SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/029719		WO2018/191091	Yes	
143	TRANSMISSION OF SYNCHRONIZATION SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	CN	201880030765?		110289598	Yes	
144	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
145	TRANSMISSION OF SYNCHRONIZATION SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	US	16/490884		US 2020-0014483 A1		
146	DESIGN OF DOWNLINK CONTROL INFORMATION FOR WIDEBAND COVERAGE ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/021420		WO2018/165347		
147	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
148	DESIGN OF DOWNLINK CONTROL INFORMATION FOR WIDEBAND COVERAGE ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/484438		US 2019-0372719 A1		
149	CHANNEL QUALITY INDICATOR TABLE DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT IN MULTEFIRE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/021836		WO2018/169797		
150	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
151	CHANNEL QUALITY INDICATOR TABLE DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT IN MULTEFIRE SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000185?		112018000185		
152	CHANNEL QUALITY INDICATOR TABLE DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT IN MULTEFIRE SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/483739		US 2020-0077414 A1		
153	Method for Interference Measurement in New Radio (NR) Communication Systems	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023688		WO2018/175678		
154	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
155	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
156	Beam Recovery Frame Structure and Recovery Request for Communication Systems	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023967		WO2018/175852		
157	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
158	Beam Recovery Frame Structure and Recovery Request for Communication Systems	[redacted]	[redacted]	PCT	APP-Pending	US	16/483252		US 2020-0008209 A1		

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
159	Techniques for Employing Polar Code in Connection with NR (New Radio)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023745		WO2018/175711		
160	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
161											
162	Techniques for Employing Polar Code in Connection with NR (New Radio)	[redacted]	[redacted]	PCT	APP-Pending	US	16/488305		US-2020-0007161-A1		
163	PARTIAL UPLINK SUBFRAME TRANSMISSIONS ON UNLICENSED CARRIERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/025409		WO2018/175477		
164	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
165											
166	PARTIAL UPLINK SUBFRAME TRANSMISSIONS ON UNLICENSED CARRIERS	[redacted]	[redacted]	PCT	APP-Pending	US	16/465171		US-2019-0327117-A1		
167	Design of Cell Specific Reference Signal (CRS) Muting for Even Further Enhanced Machine Type Communication (EFEMTC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/025769		WO2018/175724		
168	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
169	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
170	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
171	BEAM MANAGEMENT PROCEDURE TRIGGERING AND SIGNALING DELIVERY IN FALL-BACK MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/025622		WO2018/183891	Yes	
172	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
173	BEAM MANAGEMENT PROCEDURE TRIGGERING AND SIGNALING DELIVERY IN FALL-BACK MODE	[redacted]	[redacted]	PCT	APP-Pending	US	16/889913		US-2020-0067590-A1	Yes	
174	MAXIMUM CHANNEL OCCUPANCY TIME SHARING AND CO-EXISTENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/025745		WO2018/184022	Yes	
175	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
176											
177	COMMON SEARCH SPACE DESIGN IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/025731		WO2018/184020		
178	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
179	COMMON SEARCH SPACE DESIGN IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	US	16/490253		US-2019-0387580-A1		
180	BANDWIDTH PART CONFIGURATION AND OPERATION FOR NEW RADIO (NR) WIDEBAND USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031251		WO2018/204884		
181	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
182	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
183	BANDWIDTH PART CONFIGURATION AND OPERATION FOR NEW RADIO (NR) WIDEBAND USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	US	16/484802		US-2019-0373667-A1		
184	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		
185	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
186	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
187	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
188	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
189	NR RRC CONNECTION SETUP OPTIMISATION	[redacted]	[redacted]	NP	APP-Pending	US	16/242715		US-2019-0215887-A1		
190	RESOLVING BIDDING DOWN ATTACKS FOR MULTI-CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	16/245837	10470044	US-2019-0149997-A1		
191	ENHANCING F1 APPLICATION PROTOCOL (F1-AP) INTERFACES IN A MULTI-HOP RELAY NETWORK WITH CENTRALIZED UNIT (CU) AND DISTRIBUTED UNIT (DU)	[redacted]	[redacted]	NP	APP-Pending	US	16/254172		US-2019-0159277-A1		
192	Resource Set Configurations Using Automatic Repeat Request Information	[redacted]	[redacted]	NP	APP-Pending	US	16/245552		US-2019-0149275-A1	Yes	
193	NEXT GENERATION NODE-B (GNB) AND METHODS TO INDICATE A TYPE OF ACCESS FOR PAGING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	NP	APP-Pending	US	16/245089		US-2019-0191409-A1	Yes	
194	NEXT GENERATION NODE-B (GNB) AND METHODS TO INDICATE A TYPE OF ACCESS FOR PAGING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	CNT	APP-Pending	US	16/408265		US-2019-0335418-A1	Yes	
195	PADDING BITS FOR CSI REPORT CODING	[redacted]	[redacted]	NP	APP-Pending	US	16/245825		US-2019-0149266-A1		
196	Transmission Downlink Control Information for New Radio (NR) System	[redacted]	[redacted]	NP	APP-Pending	US	16/247187		US-2019-0223160-A1	Yes	
197	SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST OPERATION AND CODEBOOK DESIGN FOR NEW RADIO CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023901		WO2018/175820	Yes	
198	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
199	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
200	SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST OPERATION FOR CARRIER AGGREGATION WITH MIXED NUMEROLOGIES	[redacted]	[redacted]	PCT	APP-Pending	US	16/465930		US-2020-0221475-A1	Yes	
201	USER EQUIPMENT (UE) AND METHODS FOR VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION IN ACCORDANCE WITH A SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023477		WO2018/175528		
202	USER EQUIPMENT (UE) AND METHODS FOR VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION IN ACCORDANCE WITH A SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	PCT	APP-Pending	CN	201880018785.1		110431893		
203	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
204	USER EQUIPMENT (UE) AND METHODS FOR VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION IN ACCORDANCE WITH A SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	PCT	APP-Pending	US	16/496321		US-2020-0275458-A1		
205	CARRIER AGGREGATION AND HIGH ORDER MODULATION IN VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023941		WO2018/175842		
206	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
207	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
208	CARRIER AGGREGATION AND HIGH ORDER MODULATION IN VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/496346		US-2020-0053675-A1		
209	PRIORITIZED MESSAGING AND RESOURCE SELECTION IN VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023525		WO2018/175553		
210	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
211	[redacted]										
212	PRIORITIZED MESSAGING AND RESOURCE SELECTION IN VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION			PCT	APP-Pending	US	16/488552		US-2019-0384786-A1		
213	NARROWBAND INTERNET-OF-THINGS (NB-IOT) ENHACEMENTS			PCT	APP-Closed	WO	PCT/US2018/022926		WO2018/175749		
214	[redacted]										
215											
216	NARROWBAND INTERNET-OF-THINGS (NB-IOT) ENHACEMENTS			PCT	APP-Pending	US	16/473586				
217	WAKE UP SIGNAL FOR MACHINE TYPE COMMUNICATION AND NARROWBAND-INTERNET-OF-THINGS DEVICES			PCT	APP-Closed	WO	PCT/US2018/023822		WO2018/175760		
218	[redacted]										
219											
220	WAKE UP SIGNAL FOR MACHINE TYPE COMMUNICATION AND NARROWBAND-INTERNET-OF-THINGS DEVICES			PCT	APP-Pending	US	16/895778		US-2020-0305302-A1		
221	DESIGN OF EARLY TERMINATION SIGNAL AND HARQ-ACK FEEDBACK FOR PUSCH			PCT	APP-Closed	WO	PCT/US2018/023368		WO2018/175446		
222	[redacted]										
223											
224	DESIGN OF EARLY TERMINATION SIGNAL AND HARQ-ACK FEEDBACK FOR PUSCH			PCT	APP-Pending	US	16/496882		US-2020-0092858-A1		
225	SUB-PRB RESOURCE ALLOCATION FOR PUSCH IN EVEN FURTHER ENHANCED MTC			PCT	APP-Closed	WO	PCT/US2018/023467		WO2018/175521		
226	[redacted]										
227											
228	SUB-PRB RESOURCE ALLOCATION FOR PUSCH IN EVEN FURTHER ENHANCED MTC			PCT	APP-Pending	US	16/888200		US-2020-0388508-A1		
229	ENHANCED CELL SEARCH AND SYSTEM INFORMATION ACQUISITION			PCT	APP-Closed	WO	PCT/US2018/023351		WO2018/175833		
230	[redacted]										
231											
232	ENHANCED CELL SEARCH AND SYSTEM INFORMATION ACQUISITION			PCT	APP-Pending	US	16/496363		US-2020-0169363-A1		
233	CONTROL SIGNALING FOR DEMODULATION REFERENCE SIGNAL ANTENNA PORT INDICATION			PCT	APP-Closed	WO	PCT/US2018/024201		WO2018/176002		
234	[redacted]										
235											
236	CONTROL SIGNALING FOR DEMODULATION REFERENCE SIGNAL ANTENNA PORT INDICATION			PCT	APP-Pending	US	16/488563				
237	DM-RS GROUPING AND CSI REPORTING FOR COMP			PCT	APP-Closed	WO	PCT/US2018/024022		WO2018/175884		
238	[redacted]										
239											
240	DM-RS GROUPING AND CSI REPORTING FOR COMP			PCT	APP-Pending	US	16/496753		US-2020-0092858-A1		
241	REG BUNDLING SIZE AND DM-RS PATTERN FOR PHYSICAL DONWLINK CONTROL CHANNEL			PCT	APP-Pending	WO	PCT/US2018/025753		WO2018/187242	Yes	
242	[redacted]										
243											
244	REG BUNDLING SIZE AND DM-RS PATTERN FOR PHYSICAL DONWLINK CONTROL CHANNEL			PCT	APP-Pending	US	16/467185		US-2020-0092046-A1	Yes	
245	[redacted]										
246	CQI AND PMI OFFSET FOR UNLICENSED EMTC TRANSMISSION			NP	APP-Pending	US	16/255715		US-2019-0229794-A1		
247	UPLINK NON-ORTHOGONAL MULTIPLE ACCESS TRANSMISSION SCHEME			NP	APP-Pending	US	16/264243		US-2019-0173616-A1		
248	CONTROL SIGNALING OF BEAM FAILURE DETECTION			NP	APP-Pending	US	16/267771		US-2019-0173740-A1	Yes	
249	CONTROL SIGNALING OF BEAM FAILURE DETECTION			CNT	APP-Pending	US	16/408037		US-2019-0372830-A1	Yes	
250	DESIGN OF SCHEDULING REQUEST FOR FURTHER ENHANCED NARROWBAND INTERNET OF THINGS (FeNB-IoT)			PCT	APP-Closed	WO	PCT/US2018/023823		WO2018/175768		
251	[redacted]										
252											
253	DESIGN OF SCHEDULING REQUEST FOR FURTHER ENHANCED NARROWBAND INTERNET OF THINGS (FeNB-IoT)			PCT	APP-Pending	US	16/479188		US-2019-0387383-A1		
254	5G RAN1 System and Method for beam indication of default transmission scheme			NP	APP-Pending	CN	201910107988S		110120862		
255	[redacted]										
256	NEW RADIO (NR) SHORT AND LONG DURATION PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) DESIGN			PCT	APP-Closed	WO	PCT/US2018/023877		WO2018/175801	Yes	
257	[redacted]										
258	NEW RADIO (NR) SHORT AND LONG DURATION PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) DESIGN			PCT	APP-Pending	DE	112018000204		112018000204	Yes	
259	NEW RADIO (NR) SHORT AND LONG DURATION PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) DESIGN			PCT	APP-Pending	US	16/496804		US-2020-0092876-A1		
260	ADVANCED RADIO RESOURCE MANAGEMENT IN NEXT-GEN MULTI-HOP RELAYING CELLULAR NETWORK			PCT	APP-Closed	WO	PCT/US2018/023868		WO2018/175817	Yes	
261	[redacted]										
262											
263	ADVANCED RADIO RESOURCE MANAGEMENT IN NEXT-GEN MULTI-HOP RELAYING CELLULAR NETWORK			PCT	APP-Pending	US	16/487944		US-2020-0039479-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
264	ENHANCED CONDITIONAL HANDOVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023900		WO2018/175819		
265	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
266	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
267	ENHANCED CONDITIONAL HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	US	16/488175				
268	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS OF SWITCHING BETWEEN DIRECT AND INDIRECT COMMUNICATION FOR A RELAY ARRANGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/021134		WO2018/165150		
269	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS OF SWITCHING BETWEEN DIRECT AND INDIRECT COMMUNICATION FOR A RELAY ARRANGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	2018800169463		110402599		
270	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
271	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS OF SWITCHING BETWEEN DIRECT AND INDIRECT COMMUNICATION FOR A RELAY ARRANGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/477454		US-2019-0357101-A1		
272	SYSTEMS AND METHODS FOR GROUP BASED SERVICES PROVISIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/024157		WO2018/175974		
273	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
274	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
275	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
276	GROUP BASED CONTEXT AND SECURITY FOR MASSIVE INTERNET OF THINGS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/027768		WO2018/194971		
277	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
278	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
279	GROUP BASED CONTEXT AND SECURITY FOR MASSIVE INTERNET OF THINGS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	16/480267				
280	LOW-NOISE AMPLIFIER SUPPORTING MULTICARRIER OPERATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/025314		WO2019/190543		
281	TRANSCONDUCTANCE AMPLIFIER CIRCUITRY	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/024592		WO2019/190480		
282	SELF-EVALUATING HIGH FREQUENCY BANDWIDTH AND DYNAMIC RANGE CELLULAR POLAR TRANSMIT SIGNAL FIDELITY	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/025525		WO2019/190563		
283	MINIMIZATION OF PADDING AND RESOURCE WASTAGE IN MESSAGE 3 (MSG3) FOR EARLY DATA TRANSMISSION (EDT)	[redacted]	[redacted]	NP	APP-Pending	US	16/254988		US-2019-0159197-A1		
284	NR (New Radio) PRACH (Physical Random Access Channel) Configuration and Multi-Beam Operation	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023736		WO2018/175705		
285	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
286	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
287	NR (New Radio) PRACH (Physical Random Access Channel) Configuration and Multi-Beam Operation	[redacted]	[redacted]	PCT	APP-Pending	US	16/473382				
288	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
289	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
290	METHODS TO SIGNAL ANTENNA PANEL CAPABILITY OF USER EQUIPMENT (UE) FOR CARRIER AGGREGATION (CA) IN MILLIMETER-WAVE (MMWAVE) FREQUENCY BANDS	[redacted]	[redacted]	NP	APP-Pending	US	16/276824		US-2019-0182898-A1		
291	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
292	DYNAMIC ADAPTATION OF MAXIMUM PACKET LOSS RATE (PLR) FOR SINGLE RADIO VOICE CALL CONTINUITY (SRVCC) HANDOVER OPTIMIZATION USING SESSION DESCRIPTION PROTOCOL (SDP)	[redacted]	[redacted]	NP	APP-Pending	US	16/274901		US-2019-0182741-A1	Yes	
293	MANAGING BEARERS IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	NP	APP-Pending	US	16/277658		US-2019-0182211-A1	Yes	
294	MANAGING BEARERS IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	16/408028			Yes	
295	METHODS TO HANDLE SCHEDULING REQUESTS FOR ULTRA-RELIABLE LOW LATENCY COMMUNICATION (URLLC) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/273802		US-2019-0182896-A1	Yes	
296	TECHNIQUES TO ENABLE PHYSICAL DOWNLINK CONTROL CHANNEL COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/023883		WO2018/175806		
297	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
298	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
299	TECHNIQUES TO ENABLE PHYSICAL DOWNLINK CONTROL CHANNEL COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/488153				
300	RELIABILITY MECHANISMS FOR PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) TRANSMISSIONS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/277680		US-2019-0182807-A1		
301	DOWNLINK CONTROL INFORMATION FORMAT FOR ULTRA-RELIABLE PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	CIP	APP-Pending	US	16/409427		US-2019-0274032-A1		
302	TRANSPORT BLOCK SELECTION FOR 1024 QUADRATURE AMPLITUDE MODULATION (QAM)	[redacted]	[redacted]	NP	APP-Pending	US	16/277901		US-2019-0260440-A1		
303	TRANSPORT BLOCK SELECTION FOR 1024 QUADRATURE AMPLITUDE MODULATION (QAM)	[redacted]	[redacted]	CNT	APP-Pending	US	16/408160		US-2019-0341983-A1		
304	STEERING OF ROAMING IN 5G SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/276968		US-2019-0182655-A1	Yes	
305	ENVELOPE DETECTOR-BASED FEEDBACK FOR RADIO FREQUENCY (RF) TRANSMITTERS	[redacted]	[redacted]	NP	PAT-Active	US	16/018731	10333764			
306	ENVELOPE DETECTOR-BASED FEEDBACK FOR RADIO FREQUENCY (RF) TRANSMITTERS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/026953				
307	Conformally Shielded Power Inductor and Other Passive Devices for 4/5G Envelope Tracker Modules and/or Other Power Management Modules	[redacted]	[redacted]	NP	APP-Pending	US	16/299601		US-2019-0297757-A1		
308	MANAGEMENT OF GNB IN NETWORK FUNCTIONS VIRTUALIZATION FRAMEWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/029319		WO2018/200648		
309	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
310	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
311	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
312	ACCESS CONTROL MECHANISM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030840		WO2018/204609	Yes	
313	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
316	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
315										[redacted]	
356	COMMON AND USER EQUIPMENT (UE)-SPECIFIC PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) CONFIGURATION	[redacted]	[redacted]	NP	APP-Pending	US	16/293368		US-2019-0239286-A1		
357	MANAGEMENT SERVICES FOR 5G NETWORKS AND NETWORK FUNCTIONS	[redacted]	[redacted]	NP	APP-Pending	US	16/297017		US-2020-0021487-A1		
318	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
359	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
320	SIGNAL IMBALANCE DETECTION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	APP-Pending	US	16/144092		US-2020-0106657-A1		
321	SIGNAL IMBALANCE DETECTION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/044423		WO/2020/068267		
322	MULTI-RADIO SIMULTANEOUS FREQUENCY SCANNING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/052452		WO/2020/068039		
323	BEAM INDICATION INFORMATION TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	16/352255		US-2019-0230093-A1		
324	BEAM INDICATION INFORMATION TRANSMISSION	[redacted]	[redacted]	CNT	APP-Pending	US	16/408319		US-2020-0137588-A1		
325	PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) BLIND DECODING IN FIFTH GENERATION (5G) NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/363981		US-2019-0223164-A1	Yes	
326	Inter-cell beam management	[redacted]	[redacted]	NP	APP-Pending	US	16/359338		US-2019-0222286-A1		
327	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
328	SYSTEM AND METHOD OF MANAGING PNF CONNECTIVITY IN A NETWORK SLICE INSTANCE	[redacted]	[redacted]	NP	APP-Pending	US	16/296971		US-2019-0208553-A1		
329	DEVICES AND METHODS FOR NEXT GENERATION TECHNOLOGY INDICATORS	[redacted]	[redacted]	NP	APP-Pending	US	16/053926		US-2020-0045762-A1		
330	5G RAN1 A Method for PDCCH Default Beam Operation in NR	[redacted]	[redacted]	NP	APP-Pending	CN	201910233367		110351856		
331	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
332	GAP PATTERN DESIGN FOR NEW RADIO (NR) SYSTEMS	AB0249	AB0249-PCT	PCT	APP-Pending	WO	PCT/US2018/030482		WO2018/204383	Yes	
333	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
334	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
335	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
336	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IoT)	AB0259	AB0259-PCT	PCT	APP-Pending	WO	PCT/US2018/027568		WO2018/191538		
337	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
338	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IoT)	[redacted]	[redacted]	PCT	APP-Pending	US	16/496375				
339	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) FOR GRANT-LESS UPLINK (GUL) AND SCHEDULED UPLINK (SUL) IN LICENSED ASSISTED ACCESS (LAA) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/027532		WO2018/191448	Yes	
340	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
341	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) FOR GRANT-LESS UPLINK (GUL) AND SCHEDULED UPLINK (SUL) IN LICENSED ASSISTED ACCESS (LAA) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/494544			Yes	
342	PHYSICAL DOWNLINK CONTROL CHANNELS (PDCCH) AND ENHANCED PDCCHS (EPDCCH) IN WIDEBAND COVERAGE ENHANCEMENT (WCE) ARRANGEMENTS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/029071		WO2018/200672	Yes	
343	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
344	PHYSICAL DOWNLINK CONTROL CHANNELS (PDCCH) AND ENHANCED PDCCHS (EPDCCH) IN WIDEBAND COVERAGE ENHANCEMENT (WCE) ARRANGEMENTS	[redacted]	[redacted]	PCT	APP-Pending	US	16/897750		US-2020-0029314-A1	Yes	
345	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
346	TRANSPORT BLOCK DECODING OPERATION FOR HYBRID TRANSMISSION TIME INTERVAL (TTI) LENGTHS IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/029878		WO2018/201005		
347	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
348	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
349	TRANSPORT BLOCK DECODING OPERATION FOR HYBRID TRANSMISSION TIME INTERVAL (TTI) LENGTHS IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/497484				
350	UPLINK CONTROL INFORMATION (UCI) TRANSMISSION AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) PROCESS IDENTIFICATION FOR GRANT-FREE PHYSICAL UPLINK SHARED CHANNEL (PUSCH)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/039692		WO2019/005820	Yes	
351	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
352	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
353	UPLINK CONTROL INFORMATION (UCI) TRANSMISSION AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) PROCESS IDENTIFICATION FOR GRANT-FREE PHYSICAL UPLINK SHARED CHANNEL (PUSCH)	[redacted]	[redacted]	PCT	APP-Pending	US	16/466977		US-2020-0037314-A1	Yes	
354	COLLISION HANDLING OF REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/038645		WO2019/005550	Yes	
355	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
356	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
357	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	S	[redacted]			Yes	
358	Codebook subset restriction for CSI	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/035845		WO2018/226581	Yes	
359	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
360	Codebook subset restriction for CSI	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000196		112018000196	Yes	
361	Codebook subset restriction for CSI	[redacted]	[redacted]	PCT	APP-Pending	US	16/609294		US-2020-0186207-A1		
362	System and Method for Phase Noise Compensation	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031045		WO2018/204756	Yes	
363	System and Method for Phase Noise Compensation	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000164		112018000164	Yes	
364	System and Method for Phase Noise Compensation	[redacted]	[redacted]	PCT	APP-Pending	US	16/500937		US-2020-0052740-A1		
365	RS (Reference Signal) Sequence Generation and Mapping and Precoder Assignment for NR (New Radio)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030873		WO2018/204630	Yes	
366	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
367	RS (Reference Signal) Sequence Generation and Mapping and Precoder Assignment for NR (New Radio)	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000222		112018000222	Yes	
368	RS (Reference Signal) Sequence Generation and Mapping and Precoder Assignment for NR (New Radio)	[redacted]	[redacted]	PCT	APP-Pending	US	16/500971		US-2020-0052930-A1		
369	SUPPORT OF FLEXIBLE PDCCH MONITORING IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031253		WO2018/204886	Yes	
370	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
371	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
372	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
373	SUPPORT OF FLEXIBLE PDCCH MONITORING IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	US	16/462644		US-2019-0306737-A1	Yes	
374	INTERFERENCE COORDINATION FOR NETWORKS SERVING AERIAL VEHICLES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030440		WO2018/204353	Yes	
375	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
376	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
377	INTERFERENCE COORDINATION FOR NETWORKS SERVING AERIAL VEHICLES	[redacted]	[redacted]	PCT	APP-Pending	US	16/603171		US-2020-0037397-A1	Yes	
378	MULTEFIRE DESIGN OF RANDOM ACCESS CHANNEL AND RANDOM ACCESS CHANNEL PROCEDURE FOR INTERNET OF THINGS DEVICE OPERATION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030872		WO2018/204629		
379	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
380	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
381	SIGNALING OF A CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) MAPPING CONFIGURATION FOR A NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031440		WO2018/204931	Yes	
382	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
383	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
384	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
385	DOWNLINK CONTROL INFORMATION (DCI) FORMAT FOR GRANT-LESS UPLINK TRANSMISSION (GUL)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/032777		WO2018/213315	Yes	
386	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
387	DOWNLINK CONTROL INFORMATION (DCI) FORMAT FOR GRANT-LESS UPLINK TRANSMISSION (GUL)	[redacted]	[redacted]	PCT	APP-Pending	US	16/605784		US-2020-0128621-A1	Yes	
388	GRANTLESS UPLINK (GUL) CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/033538		WO2018/213802		
389	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
390	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
391	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
392	EMTC-U MEASUREMENT	AB0320	AB0320-PCT	PCT	APP-Pending	WO	PCT/US2018/034171		WO2018/226411		
393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
394	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
395	RESOURCE ELEMENT (RE) MAPPING IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037709		WO2018/232211	Yes	
396	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
397	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
398	RESOURCE ELEMENT (RE) MAPPING IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	US	16/477376		US-2019-0363831-A1	Yes	
399	SOUNDING REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037155		WO2018/231867	Yes	
400	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
401	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
402	SOUNDING REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	PCT	APP-Pending	US	16/612333		US-2020-0177342-A1	Yes	
403	CHANNEL DESIGN FOR ENHANCED MACHINE TYPE COMMUNICATION IN AN UNLICENSED SPECTRUM (eMTC-U) SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/035213		WO2018/231528		
404	CHANNEL DESIGN FOR ENHANCED MACHINE TYPE COMMUNICATION IN AN UNLICENSED SPECTRUM (eMTC-U) SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	DE	1120180001679		112018000167		
405	CHANNEL DESIGN FOR ENHANCED MACHINE TYPE COMMUNICATION IN AN UNLICENSED SPECTRUM (eMTC-U) SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/603914		US-2020-0128579-A1		
406	MulteFire RAN1 Design of frame structure and configuration for eMTCU system	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/090822		WO2018/228374		
407	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
408	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
409	METHOD AND APPARATUS FOR COMMUNICATION IN LTE SYSTEM ON UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	US	16/483561		US-2019-0306737-A1		
410	Paging and Essential System Information Block (SIB) Transmission in the Unlicensed Internet of Things (U-IOT) System	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037235		WO2018/231918		
411	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
412	Paging and Essential System Information Block (SIB) Transmission in the Unlicensed Internet of Things (U-IOT) System	[redacted]	[redacted]	PCT	APP-Pending	US	16/478246		US-2020-0169955-A1		
413	ENHANCEMENT ON SCHEDULING AND HARQ-ACK FEEDBACK FOR URLLC MULTIPLEXING SCHEME FOR CONTROL/DATA CHANNEL AND DM-RS FOR NR AND ACTIVATION MECHANISM SCHEDULING ASPECTS AND SYNCHRONIZATION SIGNAL (SS) BLOCKS FOR NEW RADIO (NR) SYSTEM WITH MULTIPLE BANDWIDTH PARTS (BWPS)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037316		WO2018/231971	Yes	
414	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
415	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
416	ENHANCEMENT ON SCHEDULING AND HARQ-ACK FEEDBACK FOR URLLC MULTIPLEXING SCHEME FOR CONTROL/DATA CHANNEL AND DM-RS FOR NR AND ACTIVATION MECHANISM SCHEDULING ASPECTS AND SYNCHRONIZATION SIGNAL (SS) BLOCKS FOR NEW RADIO (NR) SYSTEM WITH MULTIPLE BANDWIDTH PARTS (BWPS)	[redacted]	[redacted]	PCT	APP-Pending	US	16/466446		US-2020-0077432-A1	Yes	
417	NEW RADIO (NR) FREQUENCY-DOMAIN RESOURCE ALLOCATION TECHNIQUES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037820		WO2018/232284	Yes	
418	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
419	NEW RADIO (NR) FREQUENCY-DOMAIN RESOURCE ALLOCATION TECHNIQUES	[redacted]	[redacted]	PCT	APP-Pending	DE	1120180001601		112018000160	Yes	
420	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
421	CHANNEL STATE INFORMATION CONCATENATION AND ANTENNA PORT MEASUREMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037351		WO2018/231997	Yes	
422	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
423	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
424	CHANNEL STATE INFORMATION CONCATENATION AND ANTENNA PORT MEASUREMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/479195		US-2019-0349057-A1	Yes	
425	QUASI CO-LOCATION (QCL) FOR ANTENNA PORTS IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031249		WO2018/204882	Yes	
426	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
427		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
428	QUASI CO-LOCATION (QCL) FOR ANTENNA PORTS IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	US	16/479556			Yes	
429	New Radio (NR) Physical Uplink Structures and Schemes	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030842		WO2018/204610	Yes	
430	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
431		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
432	New Radio (NR) Physical Uplink Structures and Schemes	[redacted]	[redacted]	PCT	APP-Pending	US	16/478224		US-2019-0349057-Al	Yes	
433	CONFIGURABILITY AND SIGNALING FOR HALF-TONE SHIFT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037936		WO2018/232367	Yes	
434	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
435	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
436	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
437	HANDLING COLLISION FOR MINI-SLOT-BASED AND SLOT-BASED TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031001		WO2018/204730		
438	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
439	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
440	HANDLING COLLISION FOR MINI-SLOT-BASED AND SLOT-BASED TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	16/500772		US 2020-0077470 A1		
441	POWER RAMPING AND CONTROL IN NEW RADIO (NR) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/035656		WO2018/231553	Yes	
442	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
443	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
444	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
445	SYSTEM AND METHOD FOR PHASE TRACKING REFERENCE SIGNAL (PT-RS) MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/036959		WO2018/227209	Yes	
446	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
447	SYSTEM AND METHOD FOR PHASE TRACKING REFERENCE SIGNAL (PT-RS) MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	US	16/465994		US-2019-0296877-A1	Yes	
448	CONCURRENT TRANSMISSION OF ACKNOWLEDGMENT AND SCHEDULING REQUEST INFORMATION ON A CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/036957		WO2018/227208	Yes	
449	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
450	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
451	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
452	TIME ADVANCE ADJUSTMENT DELAY FOR SHORTENED TRANSMISSION TIME INTERVAL UNDER CARRIER AGGREGATION OR DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/044753		WO2019/032343	Yes	
453	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
454	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
455	PDCP PACKET-BASED DDDS FRAME TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	16/299389		US-2019-0246310-A1	Yes	
456	Performance Measurements Related to Virtualized Resources	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/036397		WO2018/226920		
457	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
458		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
459	Performance Measurements Related to Virtualized Resources	[redacted]	[redacted]	PCT	APP-Pending	US	16/464840		US 2020-0089589 A1		
460	Techniques Related to Interface Between Next Generation NODEB Central Unit and Next Generation NODEB Distributed Unit	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/044063		WO2019/027827	Yes	
461	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
462	DEVICES AND METHODS FOR FLOW-CONTROL TRIGGERING AND FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/038501		WO2018/237001		
463	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
464	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
465		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
466	CONTROL CHANNEL DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEM INFORMATION BLOCK (SIB) TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/040110		WO2019/006180		
467	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
468	CONTROL CHANNEL DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEM INFORMATION BLOCK (SIB) TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	16/462192		US 2020-0112943 A1		
469	MANAGEMENT OF MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030250		WO2018/204273		
470	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
471		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
472	MANAGEMENT OF MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/489087		US 2020-0007200 A1		
473	METHODS TO COMMUNICATE PARAMETERS ACROSS MULTIPLE COMPONENT CARRIERS OF A CARRIER AGGREGATION FOR SIDELINK COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	US	16/376523		US-2019-0239178-A1		
474	L2 HANDLING FOR BEARER TYPE CHANGE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037522		WO2018/232108	Yes	
475	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
476		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
477	L2 HANDLING FOR BEARER TYPE CHANGE	[redacted]	[redacted]	PCT	APP-Pending	US	16/617973		US 2020-0196374 A1	Yes	
478	NETWORK BASED CRS MITIGATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046066		WO2019/032868	Yes	
479	MULTIPLEXING OF MULTIPLE UPLINK CONTROL INFORMATION TYPES ON AN UPLINK PHYSICAL CONTROL CHANNEL IN NEW RADIO	[redacted]	[redacted]	NP	APP-Pending	US	16/376534		US-2019-0239216-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
480	MULTIPLEXING OF MULTIPLE UPLINK CONTROL INFORMATION TYPES ON AN UPLINK PHYSICAL CONTROL CHANNEL IN NEW RADIO	[redacted]	[redacted]	CNT	APP-Pending	US	16/408372		US 2019-0373598 Al	Yes	
481	NEW RADIO CONTROL CHANNEL RESOURCE SET DESIGN	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031120		WO2018/204806	Yes	
482	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
483	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
484	NEW RADIO CONTROL CHANNEL RESOURCE SET DESIGN	[redacted]	[redacted]	PCT	APP-Pending	US	16/477475		US-2019-0357185-A1	Yes	
485	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
486	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
487	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
488	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/047122		WO/2020/046620		
489	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
490	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
491	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
492	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
493	MILLIMETER WAVE (MMWAVE) SYSTEM AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/038906		WO/2019/245572		
494	SPATIAL THERMAL DENSITY REDUCTION FOR MMWAVE ANTENNA ARRAYS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/040441		WO/2020/005294		
495	TUNING TOPOLOGY FOR DISTRIBUTION MESH	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/039819		WO/2020/005237		
496	A novel method to dynamically reduce TX power according to S-RSRP based path loss in V2X system	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/096506		WO/2020/014979		
497	TECHNIQUES FOR DATA COMPRESSION	[redacted]	[redacted]	NP	APP-Pending	US	16/037241		US-2019-0238163-A1		
498	METHODS OF JOINT OPERATION FOR EXTREMELY HIGH DOPPLER SHIFT ESTIMATION AND CONTROL CHANNEL FALSE POSITIVE RATE REDUCTION AND FOR SIDE-LINK V2X COMMUNICATIONS IN EXTREME HIGH SPEED SCENARIOS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053332		WO/2020/091921		
499	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
500	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
501	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
502	RAN2 - Measurement report holding for Number of triggered cell	[redacted]	[redacted]	NP	APP-Pending	CN	2019103295996		110401969		
503	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
504	TECHNIQUES FOR BANDWITH PART SWITCHING ADAPTIVE VOLTAGE AND CLOCK CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/EP2019/071666		WO/2020/064206		
505	COLLISION HANDLING OF SYNCHRONIZATION SIGNAL (SS) BLOCKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/038543		WO2018/237032		
506	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
507	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
508	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
509	TECHNIQUES IN MEASUREMENT GAP CONFIGURATIONS IN NEW RADIO (NR)	[redacted]	[redacted]	NP	APP-Pending	US	16/392936		US-2019-0253909-A1	Yes	
510	TECHNIQUES IN MEASUREMENT GAP CONFIGURATIONS IN NEW RADIO (NR)	[redacted]	[redacted]	CNT	APP-Pending	US	16/408053		US 2019-0373498 Al	Yes	
511	E1 INTERFACE SETUP IN NG-RAN	[redacted]	[redacted]	NP	APP-Pending	US	16/393753		US-2019-0297652-A1	Yes	
512	CONFIGURED GRANT UPLINK (UL) TRANSMISSION IN NEW RADIO UNLICENSED (NR-U)	[redacted]	[redacted]	NP	APP-Pending	US	16/408337		US-2019-0268935-A1	Yes	
513	PRACH RESOURCE SELECTION	[redacted]	[redacted]	NP	APP-Pending	US	16/409530		US-2019-0268947-A1	Yes	
514	DYNAMIC RESOURCE SCALING AND VM MIGRATION IN NG-RAN	[redacted]	[redacted]	NP	APP-Pending	US	16/393709		US-2019-0254090-A1	Yes	
515	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
516	METHODS TO DETERMINE A HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT (HARQ-ACK) CODEBOOK IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/409245		US-2019-0268803-A1	Yes	
517	Systems and Methods for Physical Channel Repetition for Low Latency Communication	[redacted]	[redacted]	NP	APP-Pending	US	16/410095		US-2019-0268097-A1	Yes	
518	SUPPORT OF ADVANCED USER EQUIPMENT (UE) MINIMUM PROCESSING TIMES IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/407559		US-2019-0289622-A1	Yes	
519	METHODS AND DEVICES FOR BROADCAST CHANNEL DECODING	[redacted]	[redacted]	NP	APP-Pending	US	16/118472		US 2020-0076568 A1		
520	METHODS AND DEVICES FOR BROADCAST CHANNEL DECODING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/048679		WO/2020/047178		
521	BANDWIDTH PART (BWP) SWITCHING DELAYS FOR NEW RADIO (NR)	[redacted]	[redacted]	NP	APP-Pending	US	16/410985		US-2019-0268905-A1	Yes	
522	SYSTEMS AND METHODS FOR APPLYING 4RX CAPABLE UE TESTS TO AN 8RX CAPABLE UE	[redacted]	[redacted]	NP	APP-Pending	US	16/410562		US-2019-0273569-A1		
523	SYSTEMS AND METHODS FOR L1-RSRP MEASUREMENT ACCURACY FOR BEAM DETECTION	[redacted]	[redacted]	NP	APP-Pending	US	16/410498		US-2019-0268061-A1	Yes	
524	SESSION CONTINUITY IN MOBILE SYSTEMS USING USER PLANE FUNCTIONS WITH UPLINK CLASSIFIER	[redacted]	[redacted]	NP	APP-Pending	US	16/417921		US-2019-0274185-A1	Yes	
525	MOBILE COMMUNICATION SYSTEM MOBILE DEVICE USER EQUIPMENT NETWORK NODE NODEB CIRCUITS APPARATUSES METHODS MACHINE READABLE MEDIA AND COMPUTER PROGRAMS FOR MOBILE DEVICES USER EQUIPMENT NETWORK NODES AND NODEBS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045925		WO2019/032779		
526	Apparatuses Methods and Computer Programs for a Base Station Transceiver a User Equipment and an Entity of a Mobile Communication System	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046593		WO2019/046005		
527	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
528	BANDWIDTH PART (BWP) SWITCHING	[redacted]	[redacted]	NP	APP-Pending	US	16/417992		US-2019-0357085-A1	Yes	
529	Capacitor Compensated Dual of Polyphase Filter	[redacted]	[redacted]	NP	APP-Pending	US	16/146095		US 2020-0106413 A1		
530	Capacitor Compensated Dual of Polyphase Filter	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/048496		WO/2020/068340		
531	SEQUENCE DESIGN AND RESOURCE ALLOCATION FOR NR PUCCH	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/044563		WO2019/027995	Yes	
532	5G RAN1 System and Method for Control Signaling of Uplink Open-Loop Transmission	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/098959		WO2019/029480		
533	5G RAN1 System and Method for beam recovery without beam correspondence	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/099641		WO2019/029626		
534	5G RAN1 System and Method for data and SS-block or CSI-RS transmission	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/099672		WO2019/029631	Yes	
535	RESOURCE MAPPING SCHEMES FOR CHANNEL STATE INFORMATION REPORTING ON NEW RADIO PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045962		WO2019/032802	Yes	
536	RESOURCE MAPPING SCHEMES FOR CHANNEL STATE INFORMATION REPORTING ON NEW RADIO PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	DE	1120180002063		112018000206	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
537	PREEMPTION INDICATIONS FOR NEW RADIO	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046038		WO2019/032844	Yes	
538	SCRAMBLING SEQUENCE INITIAL SEED CONFIGURATION FOR REFERENCE SIGNALS DATA AND CONTROL CHANNEL FOR NEW RADIO	[redacted]	[redacted]	NP	APP-Pending	US	16/055864		US-2019-0044669-A1	Yes	
539	UPLINK TRANSMISSION IN TDD SUPPORTING feNB-IOT OPERATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046018		WO2019/032833	Yes	
540	RESOURCE ALLOCATION FOR SYSTEM INFORMATION BLOCK (SIB) TRANSMISSION IN A MULTEFIRE SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/048180		WO2019/050706		
541	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
542	5G RAN1 System and Method for Robust UL Codebook based Transmission	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/097020		WO2019/020050	Yes	
543	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
544	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
545	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION BASED ON ROBUST CODEBOOK	[redacted]	[redacted]	PCT	APP-Pending	US	16/483588		US 2020-0100327 A1	Yes	
546	DOWNLINK TRANSMISSION IN TDD SUPPORTING feNB-IoTs	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046241		WO2019/032978	Yes	
547	DEMODULATION REFERENCE SIGNAL FOR PHYSICAL BROADCAST CHANNEL IN NEW RADIO	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/048823		WO2019/033419	Yes	
548	DEMODULATION REFERENCE SIGNAL FOR PHYSICAL BROADCAST CHANNEL IN NEW [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
549	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
550	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
551	CONFIGURATION OF GRANT-LESS UPLINK TRANSMISSIONS FOR A USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/041960		WO2019/014498	Yes	
552	CONFIGURATION OF GRANT-LESS UPLINK TRANSMISSIONS FOR A USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	DE	112018003660		112018003660	Yes	
553	CONFIGURATION OF GRANT-LESS UPLINK TRANSMISSIONS FOR A USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/604141		US 2020-0178288 A1		
554	SYSTEM AND METHOD FOR MULTIPLEXING OF TRACKING REFERENCE SIGNAL AND SYNCHRONIZATION SIGNAL BLOCK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045862		WO2019/032737	Yes	
555	CONTROL SIGNALING FOR SOUNDING REFERENCE SIGNAL (SRS)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046053		WO2019/032855	Yes	
556	SUB SAMPLING PHASE LOCKED LOOP (SSPLL) WITH WIDE FREQUENCY ACQUISITION	[redacted]	[redacted]	NP	APP-Pending	US	16/126722		US 2020-0083892 A1		
557	A SUB SAMPLING PHASE LOCKED LOOP (SSPLL) WITH WIDE FREQUENCY ACQUISITION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/043213		WO/2020/055510		
558	METHODS TO ADAPT A FREQUENCY DENSITY OF CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) RESOURCES FOR BEAM FAILURE DETECTION (BFD) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/422055		US-2019-0281660-A1	Yes	
559	PRACH (Physical Random Access Channel) Ramping and Dynamic Beam Switching of Control and Data Transmissions	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045860		WO2019/032695	Yes	
560	PHYSICAL DOWNLINK SHARED CHANNEL TRANSMISSION FOR MULTI-POINT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046376		WO2019/033078	Yes	
561	DETERMINING AND COMMUNICATING CONTROL INFORMATION IN WIRELESS TELECOMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045993		WO2019/032821	Yes	
562	MANAGING LINK QUALITY AND USING PARTIAL SUBFRAMES IN WIRELESS TELECOMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046549		WO2019/033118	Yes	
563	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
564	SIDELINK BROADCAST COMMUNICATION USING DIRECTIONAL ANTENNAS WITH PHYSICAL SIGNAL STRUCTURE FOR SIDELINK RANGING AND POSITIONING IN LTE AND NR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046862		WO2019/036578	Yes	
565	NEW RADIO (NR) UNLICENSED PHYSICAL UPLINK CONTROL CHANNEL WITH INTERLACED STRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046914		WO2019/036622		
566	UNLICENSED NARROWBAND INTERNET OF THINGS CONTROL CHANNEL COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/045728		WO2019/032553	Yes	
567	ENHANCED UPLINK BEAM MANAGEMENT	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
568	[redacted]	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/057078		WO / 2020/082035		
569	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
570	FULL BANDWIDTH UPLINK TRANSMISSION FOR UNLICENSED NARROWBAND INTERNET OF THINGS	[redacted]	[redacted]	NP	APP-Pending	US	16/396441		US-2019-0254013-A1	Yes	
571	FULL BANDWIDTH UPLINK TRANSMISSION FOR UNLICENSED NARROWBAND INTERNET OF THINGS	[redacted]	[redacted]	CNT	APP-Pending	US	16/408367		US 2019-0373587 A1	Yes	
572	DEMODULATION REFERENCE SIGNAL AND PHASE-TRACKING REFERENCE SIGNAL PORT INDICATION	[redacted]	[redacted]	NP	APP-Pending	US	16/440205		US-2019-0296876-A1	Yes	
573	Wake Up Signaling in Wireless Telecommunication Networks	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/046535		WO2019/033112	Yes	
574	METHODS TO MULTIPLEX CONTROL INFORMATION IN ACCORDANCE WITH MULTI-SLOT TRANSMISSIONS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/443950		US-2019-0306922-A1	Yes	
575	Wideband Signal Buffer	[redacted]	[redacted]	NP	APP-Pending	US	16/183526		US 2020-0184977 A1		
576	Wideband Signal Buffer	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/054957		WO/2020/096719		
577	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
578	VEHICLE-TO-EVERYTHING (V2X) CONTROL FUNCTION BASED ON USER EQUIPMENT (UE) CAPABILITY	[redacted]	[redacted]	NP	APP-Pending	US	16/451435		US-2019-0289459-A1	Yes	
579	VEHICLE-TO-EVERYTHING (V2X) COMMUNICATION AUTHORIZATION IN FIFTH GENERATION (5G) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/446337		US-2019-0306754-A1	Yes	
580	RPRACH CONFIGURATION AND FORMAT FOR UNLICENSED NBIOT SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/446177		US 2019-0394806 A1	Yes	
581	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
582	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
583	APPARATUS SYSTEM AND METHOD OF COMMUNICATION OVER COMMON CONTROL CHANNELS	[redacted]	[redacted]	NP	APP-Pending	US	16/446973		US-2019-0306884-A1	Yes	
584	SPLIT PRECODING AND SPLIT PREFILTERING BETWEEN A CENTRAL UNIT AND A DISTRIBUTED UNIT OF A GENERATION NODE-B (GNB)	[redacted]	[redacted]	NP	APP-Pending	US	16/100773		US-2019-0044580-A1		
585	USER EQUIPMENT MEASUREMENTS FOR NEW RADIO	[redacted]	[redacted]	NP	APP-Pending	US	16/107475		US-2019-0044602-A1	Yes	
586	USER EQUIPMENT MEASUREMENTS FOR NEW RADIO	[redacted]	[redacted]	CNT	APP-Pending	US	16/408357		US 2019-0372649 A1	Yes	
587	NEW RADIO (NR) PHYSICAL RESOURCE BLOCK GRID STRUCTURE	[redacted]	[redacted]	EPA	APP-Pending	EP	18193541.2		3454497		
588	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
589	TECHNIQUES IN SYSTEM FRAME NUMBER (SFN) AND FRAME TIMING DIFFERENCE MEASUREMENTS IN NEW RADIO (NR)	[redacted]	[redacted]	NP	APP-Pending	US	16/450715		US-2019-0313272-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
590	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
591	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
592	DISCOVERY REFERENCE SIGNAL PROPERTIES FOR DYNAMIC FREQUENCY SELECTION CHANNELS	[redacted]	[redacted]	PSP	APP-Closed	US	62/703390			Yes	
593	CHANNEL ACCESS MECHANISMS FOR SIDELINK NR V2X COMMUNICATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/701358			Yes	
594	5G RAN1 Mechanisms on monitoring PDCCH with CSS and USS in beamformed system	[redacted]	[redacted]	EPA	APP-Pending	EP	18000717.1		3451553	Yes	
595	5G RAN1 System and Method for TRS configuration	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/104791		WO2019/047945	Yes	
596	INTERFERENCE MEASUREMENT IN NEW RADIO SYSTEMS	[redacted]	[redacted]	EPA	APP-Pending	EP	18393816.8		3454477	Yes	
597	5G RAN1 A Method for Beam Failure Recovery Request Transmission in NR	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/104855		WO2019/047948	Yes	
598	METHOD TO DYNAMICALLY CHANGE CONNECTIVITY OF VIRTUAL NETWORK FUNCTION (VNF) AND PHYSICAL NETWORK FUNCTION (PNF) INSTANCES IN NEW RADIO (NR) NETWORKS	[redacted]	[redacted]	NP	APP-Pending	US	16/509459		US-2020-0014582-A1	Yes	
599	TECHNIQUES FOR NR CELL/BEAM IDENTIFICATION	[redacted]	[redacted]	NP	APP-Pending	US	16/127542		US-2019-0045559-A1	Yes	
600	TECHNIQUES IN NEW RADIO (NR) USER EQUIPMENT (UE) DEMODULATION OVER THE AIR (OTA) TESTS	[redacted]	[redacted]	NP	APP-Pending	US	16/148905		US-2019-0052376-A1	Yes	
601	Systems and Methods for Mitigation of Nonlinearity Related Phase Noise Degradations	[redacted]	[redacted]	NP	APP-Pending	US	16/206309		US-2020-0177190-A1		
602	Systems and Methods for Mitigation of Nonlinearity Related Phase Noise Degradations	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/057566		WO/2020/132277		
603	FREQUENCY GENERATION AND SYNCHRONIZATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053275		WO/2020/069203		
604	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
605	SENSING-BASED DISTRIBUTED SCHEDULING OF EVENT-BASED MISSION CRITICAL (MC) VEHICLE-TO-EVERYTHING (V2X) TRAFFIC	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/062055		WO/2020/106643		
606	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
607	IMPROVING WI-FI SPECTRUM EFFICIENCY	AB3481	AB3481-PCT	PCT	APP-Pending	WO	PCT/US2019/062172		WO/2020/106698		
608	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
609	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
610	MEASUREMENTS AND REPORTING FOR USER EQUIPMENT (UE) POSITIONING IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/064396		WO/2020/028517		
611	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
612	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
613	EARLY DATA TRANSMISSION CONTROL PLANE AND USER PLANE OPTIMIZATION FOR NAS EARLY DATA TRANSMISSION	[redacted]	[redacted]	PSP	APP-Closed	US	62/703758			Yes	
614	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
615	MULTIPLE SUBSCRIBER MANAGEMENT IN USER DEVICE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/048639		WO/2020/068333		
616	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
617	WAKE UP SIGNAL ASSISTED C-DRX FOR POWER EFFICIENT COMMUNICATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/703315			Yes	
618	CONFIGURATION OF MULTIPLE MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	NP	APP-Pending	US	16/538252		US-2019-0342801-A1	Yes	
619	UE CAPABILITY OF MULTIPLE MEASUREMENT GAP PATTERNS IN PARALLEL	[redacted]	[redacted]	PSP	APP-Closed	US	62/702026			Yes	
620	DOWNLINK CONTROL CHANNEL SIGNALING FOR IMPROVING UE POWER CONSUMPTION	[redacted]	[redacted]	PSP	APP-Closed	US	62/702822			Yes	
621	RELIABILITY ENHANCEMENT OF RESOURCE ALLOCATION FOR PHYSICAL UPLINK CONTROL CHANNEL IN NR-UNLICENSED SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/703317			Yes	
622	TRIGGERING MULTIPLE HARQ-ACK TRANSMISSION IN A SLOT FOR NR SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/711325			Yes	
623	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
624	A CONCEPT FOR CONVERTING A THERMOMETER-CODED INPUT SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058704		WO/2020/132291		
625	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) BASED ON CODEBLOCK GROUPS IN NEW RADIO SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/126387		US-2019-0045483-A1	Yes	
626	PHYSICAL RANDOM ACCESS CHANNEL (PRACH) FORMAT CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/050200		WO2019/051373	Yes	
627	Scheduling Request Transmission Opportunity and Resource Configuration in New Radio	[redacted]	[redacted]	NP	APP-Pending	US	16/126556		US-2019-0045529-A1	Yes	
628	Downlink Control Channel Design in New Radio Systems	[redacted]	[redacted]	NP	APP-Pending	US	16/126260		US-2019-0045490-A1	Yes	
629	Downlink Control Channel Design in New Radio Systems	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/047851		WO/2020/055372		
630	RAN1 LTE Method of downlink transmission using 1024QAM modulation	[redacted]	[redacted]	EPA	APP-Pending	EP	18197349.6		3462654	Yes	
631	5G RAN1 Frequency hopping for NR PUSCH in case of multiple bandwidth parts and different data durations	[redacted]	[redacted]	EPA	APP-Pending	EP	18198168.9		3462796		
632	SYSTEM AND METHOD FOR PUCCH TRANSMISSION SCHEME	[redacted]	[redacted]	NP	APP-Pending	US	16/125506		US-2019-0349979-A1	Yes	
633	SYSTEM AND METHOD FOR PUCCH TRANSMISSION SCHEME	[redacted]	[redacted]	CNT	APP-Pending	US	16/408063		US-2019-0273648-A1	Yes	
634	CHANNEL STATE INFORMATION (CSI) REPORTING FOR BANDWIDTH PARTS	[redacted]	[redacted]	NP	APP-Pending	US	16/147204		US-2019-0081679-A1	Yes	
635	CHANNEL STATE INFORMATION (CSI) REPORTING FOR BANDWIDTH PARTS	[redacted]	[redacted]	CNT	APP-Pending	US	16/408081			Yes	
636	POWER BOOSTING AND TRANSPORT BLOCK SIZE (TBS) DESIGN IN A NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/126999		US-2019-0045390-A1	Yes	
637	POWER BOOSTING AND TRANSPORT BLOCK SIZE (TBS) DESIGN IN A NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	CNT	APP-Pending	US	16/408313		US-2020-0137616-A1	Yes	
638	NARROWBAND REFERENCE SIGNAL TRANSMISSION FOR MEASUREMENT AND SYNCHRONIZATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/048383		WO/2020/028510		
639	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
640	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
641	UPLINK TRANSMISSION FOR MULTI-TRP AND MULTI-PANEL OPERATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/713975			Yes	
642	5G RAN1 A Method for Beam Grouping in NR	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/104852		WO2019/047953	Yes	
643	CONFIGURATION SCHEMES FOR SECONDARY CELL BANDWIDTH PART AND PHYSICAL RESOURCE BLOCK INDEXING	[redacted]	[redacted]	NP	APP-Pending	US	16/135722		US-2019-0044813-A1	Yes	
644	ENHANCEMENT OF PERFORMANCE OF ULTRA-RELIABLE LOW-LATENCY COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	US	16/126472		US-2019-0045553-A1	Yes	
645	5G RAN1 System and method of UL control signaling in multi-TRP operation for NR	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/104847		WO2019/047950	Yes	
646	5G RAN1 System and methods of channel state information report on PUSCH in NR	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/104860		WO2019/047952	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
647	SYSTEM AND METHOD FOR UPLINK POWER CONTROL FRAMEWORK	[redacted]	[redacted]	NP	APP-Pending	US	16/127887		US-2019-0044681-A1	Yes	
648	INITIALIZATION OF PSEUDO NOISE SEQUENCES FOR REFERENCE SIGNALS AND DATA SCRAMBLING	[redacted]	[redacted]	NP	APP-Pending	US	16/127829		US-2019-0048781-A1		
649	METHOD AND APPARATUS FOR CHANNEL CODING IN THE FIFTH GENERATION NEW RADIO SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/126776		US-2019-0097756-A1	Yes	
650	APPARATUS AND METHOD FOR RSRP MEASUREMENT AND ALLOCATION OF DOWNLINK TRANSMISSION RESOURCES	[redacted]	[redacted]	NP	APP-Pending	US	16/128111		US-2019-0044631-A1		
651	DESIGN OF SYNCHRONIZATION SIGNAL BLOCK FOR UNLICENSED CARRIER AND LISTEN BEFORE TALK STRATEGIES FOR INITIAL ACCESS	[redacted]	[redacted]	NP	APP-Pending	US	16/148352		US-2019-0053177-A1	Yes	
652	DESIGN OF CSI MEASUREMENT AND FEEDBACK FOR EMTC-U SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/133208		US-2019-0044598-A1	Yes	
653	CHANNEL WHITELIST AND FLEXIBLE FRAME DESIGN FOR ENHANCED MACHINE-TYPE COMMUNICATIONS SYSTEMS IN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	APP-Pending	US	16/134124		US-2019-0044810-A1		
654	DESIGN OF EARLY DATA TRANSMISSION IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/141202		US-2019-0045554-A1	Yes	
655	FRAMEWORK FOR COMMUNICATIONS IN UNLICENSED NARROW BAND INTERNET OF THINGS (NB-IOT) SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/157642		US-2019-0045372-A1		
656	UPLINK CONTROL SIGNALING FOR GRANT-FREE UPLINK TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	16/163785		US-2019-0053226-A1		
657	RACH PROCEDURE AND CONFIGURATION FOR UNLICENSED EMTC SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/163351		US-2019-0116618-A1		
658	DESIGN FOR A UE SPECIFIC SEARCH SPACE AND A COMMON SEARCH SPACE IN A WIDE COVERAGE ENHANCEMENT	[redacted]	[redacted]	NP	APP-Pending	US	16/133360		US-2019-0104503-A1	Yes	
659	DESIGN OF FREQUENCY HOPPING PATTERN FOR UNLICENSED INTERNET-OF-THINGS SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/163160		US-2019-0052308-A1		
660	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
661	DOWNLINK WAVEFORM TYPE AND GUARD INTERVAL ADAPTATION FOR WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/046001		WO/2020/033891		
662	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
663	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
664	ASSOCIATION OF 3GPP (THIRD GENERATION PARTNERSHIP PROJECT) UPF (USER PLANE FUNCTION) AND EDGE COMPUTING APPLICATION SERVER	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/044338		WO/2020/028490		
665	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
666	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
667	USER EQUIPMENT CAPABILITY INDICATION OF RECEIVE BEAMFORMING FOR CELL IDENTIFICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/046046		WO/2020/033914		
668	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
669	MANAGEMENT DATA ANALYTICAL KPIS FOR 5G NETWORK TRAFFIC AND RESOURCE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045330		WO/2020/033424		
670	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
671	PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) REPETITION TRANSMISSION FOR RELIABLE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045353		WO/2020/033439		
672	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
673	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
674	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
675	END-TO-END (E2E) PERFORMANCE MEASUREMENTS IN 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045253		WO/2020/033373		
676	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
677	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
678	IN-DEVICE COORDINATION OF SIDELINK OVER LTE AND NR PC5 INTERFACES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045766		WO/2020/033735		
679	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
680	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
681	SIDELINK COMMUNICATION UNDER CONTROL OF LTE UU INTERFACE OR NR INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045785		WO/2020/033751		
682	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
683	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
684	SYNCHRONIZATION FOR SIDELINK BASED ON PRIORITIZATION OF SYNCHRONIZATION SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045797		WO/2020/33759		
685	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
686	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
687	SECURITY FRAMEWORK FOR MESSAGE 3 (MSG3) AND MESSAGE 4 (MSG4) IN EARLY DATA TRANSMISSION	[redacted]	[redacted]	PSP	APP-Closed	US	62/716440				
688	PERFORMANCE MEASUREMENTS FOR SGC NETWORK FUNCTIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045718		WO/2020/033697		
689	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
690	RAN CONDITION AND CELL COMPOSITE LOAD INDICATORS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045514		WO/2020/033552		
691	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
692	FLOW CONTROL FOR UPLINK TRAFFIC IN AN INTEGRATED ACCESS AND BACKHAUL NETWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045772		WO/2020/033740		
693	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
694	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
695	TECHNIQUES IN NEW RADIO (NR) RADIO RESOURCE MANAGEMENT (RRM) PERFORMANCE ACCURACY MEASUREMENTS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045994		WO/2020/033885		
696	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	

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697	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
698	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
699	ENHANCED HARQ FEEDBACK FOR RELIABLE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045647		WO/2020/033640		
700	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
701	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
702	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
703	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
704	ENHANCING USER PLANE CONTEXTS MANAGEMENT IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045368		WO/2020/033451		
705	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
706	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
707	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
708	TECHNIQUES IN MEASUREMENT GAP CONFIGURATION IN NEW RADIO (NR) RELATED COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045555		WO/2020/033582		
709	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
710	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
711	RANDOM ACCESS PROCEDURES BASED ON PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) ORDERS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045966		WO/2020/033887		
712	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
713	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
714	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
715	PHYSICAL BROADCAST CHANNEL CONTENT FOR NEW RADIO UNLICENSED	[redacted]	[redacted]	PSP	APP-Closed	US	62/717683			Yes	
716	ENHANCED PDCCH MONITORING IN NEW RADIO SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045663		WO/2020/033652		
717	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
718	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			s	
719	TCI AND QCL CONFIGURATION IN 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045513		WO/2020/033549		
720	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
721	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
722	MEASUREMENT PERIOD FOR BEAM REPORTING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045951		WO/2020/033886		
723	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
724	FLEXIBLE SCOPE OF PACKET FILTERS FOR REFLECTIVE QUALITY OF SERVICE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045656		WO/2020/036802		
725	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
726	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
727	PAGING AND MEASUREMENT IN NR IDLE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045658		WO/2020/033648		
728	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
729	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
730	SCHEDULING FOR NEW RADIO IN UNLICENSED SPECTRUM (NR-U)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045853		WO/2020/033798		
731	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
732	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
733	INTER-INTEGRATED ACCESS AND BACKHAUL NODE CROSS-LINK INTERFERENCE MEASUREMENT AND REPORTING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045667		WO/2020/033655		
734	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
735	LONG TERM EVOLUTION (LTE) CONTROL REGION FOR DOWNLINK TRANSMISSIONS FOR ENHANCED MACHINE TYPE COMMUNICATIONS (eMTC)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045796		WO/2020/033758		
736	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
737	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
738	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
739	UPLINK TRANSMISSIONS IN PRECONFIGURED RESOURCES FOR ENHANCED MACHINE TYPE COMMUNICATION (EMTC) AND NARROW-BAND INTERNET OF THINGS (NB-IOT)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/046067		WO/2020/033855		
740	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
741	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		WO/2020/033928	[redacted]	
742	TECHNIQUES FOR GAP-BASED FEEDBACK MEASUREMENT IN NEW RADIO WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045706				
743	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
744	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
745	SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION FRAMEWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045998		WO/2020/033888		
746	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
747	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
748	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
749	FAST INITIAL ACQUISITION BY TRANSMITTING NON-ORTHOGONAL SYNCHRONIZATION SIGNAL BLOCKS IN 5G NEW RADIO			PCT	APP-Pending	WO	PCT/US2019/047063		WO/2020/041196		
750											
751	USE OF USER EQUIPMENT (UE) IDENTIFIERS FOR REGISTRATION IN FIFTH GENERATION (5G) SYSTEMS			PCT	APP-Pending	WO	PCT/US2019/046188		WO/2020/036883		
752											
753	TECHNIQUES IN EVOLVED PACKET CORE FOR RESTRICTED LOCAL OPERATOR SERVICES ACCESS			PCT	APP-Pending	WO	PCT/US2019/046330		WO/2020/036947		
754											
755	LOCAL AREA NETWORK (LAN) SERVICE IN FIFTH GENERATION (5G) SYSTEMS			PCT	APP-Pending	WO	PCT/US2019/046187		WO/2020/036882		
756											
757	NETWORK DISCOVERY SELECTION AND ACCESS CONTROL IN VERTICAL DOMAIN			PCT	APP-Pending	WO	PCT/US2019/046581		WO/2020/037086		
758											
759	ENHANCEMENT FOR SMTC CONFIGURATION FOR NEW RADIO			PCT	APP-Pending	WO	PCT/US2019/047022		WO/2020/041173		
760											
761											
762	Discovery reference signal for narrowband internet of things (NB-IOT) systems operating on unlicensed spectrum			PSP	APP-Closed	US	62/765197				
763	PHASE TRACKING REFERENCE SIGNAL (PT-RS) CONFIGURATION			PCT	APP-Pending	WO	PCT/US2018/049745		WO2019/051085	Yes	
764											
765	PROVISIONING OF VLAN IDS IN 5G SYSTEMS			PCT	APP-Pending	WO	PCT/US2019/047341		WO/2020/041368		
766											
767	CONTROL RESOURCE SET SELECTION FOR CHANNEL STATE INFORMATION REFERENCE SIGNAL-BASED RADIO LINK MONITORING			PCT	APP-Pending	WO	PCT/US2019/047339		WO/2020/041366		
768											
769	BANDWIDTH PART SWITCHING DELAY FOR UPLINK TRANSMISSION			PCT	APP-Pending	WO	PCT/US2019/047036		WO/2020/041182		
770											
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781	Dual Connectivity Techniques for NR (New Radio)			NP	APP-Pending	US	16/179421		US-2019-0090151-A1		
782											
783	APPARATUS AND METHOD FOR SIGNALING RAN-ASSISTED CODEC ADAPTATION CAPABILITIES IN IMS MULTIMEDIA TELEPHONY SESSIONS			PCT	APP-Pending	WO	PCT/US2019/050189		WO/2020/051579		
784											
785	UPLINK CONTROL INFORMATION (UCI) MULTIPLEXING ON MULTIPLE PHYSICAL UPLINK SHARED CHANNELS (PUSCHs)			PCT	APP-Pending	WO	PCT/US2019/049370		WO/2020/051152		
786											
787											
788	FLOW CONTROL IN INTEGRATED ACCESS AND BACKHAUL NETWORK			PCT	APP-Pending	WO	PCT/CN2019/104556		WO/2020/051152		
789											
790	TECHNIQUES IN MULTIPLE MEASUREMENT GAPS IN NEW RADIO (NR)			PCT	APP-Pending	WO	PCT/US2019/051365		WO/2020/060951		
791											
792	TECHNIQUES IN INTER-BAND AND INTRA-BAND DYNAMIC POWER SHARING IN DUAL CONNECTIVITY COMMUNICATIONS			PCT	APP-Pending	WO	PCT/US2019/049674		WO/2020/051286		
793											
794	TECHNIQUES IN MEASUREMENT GAP (MG) CONFIGURATIONS WITH BANDWIDTH PART (BWP)			PCT	APP-Pending	WO	PCT/US2019/051366		WO/2020/060952		
795											
796	Hybrid Automatic Repeat Request Feedback for Wireless Communication			PCT	APP-Pending	WO	PCT/US2019/050711		WO/2020/056068		
797											
798											
799	SYSTEMS METHODS AND DEVICES FOR SIGNALING FOR POWER SAVING			PCT	APP-Pending	WO	PCT/US2019/051214		WO/2020/060890		
800											
801											
802	CONDITIONAL HANDOVER IN WIRELESS NETWORKS			PCT	APP-Pending	WO	PCT/US2019/050622		WO/2020/060822		
803											
804	UNLICENSED NARROWBAND INTERNET OF THINGS (NB-IOT) OPERATION ON BAND 47B			PCT	APP-Pending	WO	PCT/US2019/051119		WO/2020/060822		
805											

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806	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
807	PROTECTION OF INITIAL NON-ACCESS STRATUM PROTOCOL MESSAGE IN 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/051106		WO/2020/060871		
808	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
809	COORDINATION SIGNALING FOR SYNCHRONIZATION SIGNAL BLOCK (SSB) TRANSMISSION CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052274		WO/2020/061530		
810	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
811	SYSTEMS METHODS AND DEVICES FOR END-TO-END MEASUREMENTS AND PERFORMANCE DATA STREAMING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/051932		WO/2020/061312		
812	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
813	SIGNALING TO CHILD NODES FOR BACKHAUL BEAM FAILURE IN FIFTH GENERATION (5G) NEW RADIO (NR) (5G-NR) INTEGRATED ACCESS AND BACKHAUL (IAB)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052271		WO/2020/061527		
814	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
815	NEGOTIATION OF A BCS RAT FOR A V2X SERVICE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052708		WO/2020/068835		
816	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
817	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
818	CONFIGURATION OF MEASUREMENT GAPS IN NEW RADIO (NR)-NR DUAL CONNECTIVITY (NR-NR DC) ARRANGEMENTS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052695		WO/2020/068528		
819	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
820	MULTI-CONNECTIVITY USING TIME DIVISION MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052398		WO/2020/068568		
821	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
822	RLF HANDLING DURING MULTI-CONNECTIVITY HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052403		WO/2020/068651		
823	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
824	UE CAPABILITY INDICATION FOR MULTI-CONNECTIVITY HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053222		WO/2020/069174		
825	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
826	ENHANCED HYBRID AUTOMATIC RETRANSMISSION REQUEST (HARQ) FOR SEMI-PERSISTENT SCHEDULED (SPS) DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053165		WO/2020/069136		
827	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
828	ALLOCATION OF RESOURCES FOR PREAMBLE AND PAYLOAD OF MESSAGES IN A 2-STEP RANDOM ACCESS (RA) PROCEDURE IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053286		WO/2020/069209		
829	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
830	RADIO LINK MONITORING AND FAILURE FOR NEW RADIO-UNLICENSED OPERATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/051321		WO/2020/068472		
831	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
832	MANAGING CONTROL PLANE LATENCY FOR INTEGRATED ACCESS AND BACKHAUL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052900		WO/2020/068940		
833	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
834	PDCP AND RLC HANDLING FOR MULTI-CONNECTIVITY HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052412		WO/2020/068559		
835	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
836	PHYSICAL UPLINK CONTROL CHANNEL RESOURCE DETERMINATION AND MULTIPLEXING OF MULTIPLE HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGMENT FEEDBACKS AND OTHER UPLINK CONTROL INFORMATION ON PHYSICAL UPLINK CONTROL CHANNEL AND PHYSICAL UPLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053695		WO/2020/068468		
837	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
838	BEAM FAILURE RECOVERY OPERATION	[redacted]	[redacted]	NP	APP-Pending	US	16/166571		US-2019-0358519-A1	Yes	
839	CONTROL RESOURCE SET INFORMATION IN PHYSICAL BROADCAST CHANNEL	[redacted]	[redacted]	NP	APP-Pending	US	16/171958		US-2019-0369322-A1	Yes	
840	CHANNEL STATE INFORMATION REPORT FOR PHASE TRACKING REFERENCE SIGNAL PORT SELECTION	[redacted]	[redacted]	NP	APP-Pending	US	16/172603		US-2019-0068269-A1		
841	DETERMINING RESOURCES FOR UPLINK CONTROL INFORMATION ON PHYSICAL UPLINK SHARED CHANNEL AND PHYSICAL UPLINK CONTROL CHANNEL WITH FREQUENCY HOPPING	[redacted]	[redacted]	NP	APP-Pending	US	16/213819		US-2019-0116588-A1		
842	PERFORMANCE MEASUREMENTS IN A NEXT GENERATION RADIO ACCESS NETWORK (NG-RAN)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053023		WO/2020/069032		
843	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
844	UPLINK IN-ORDER DELIVERY FOR QOS FLOW OFFLOADED IN 5GC MULTI-RAT DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052915		WO/2020/068952		
845	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
846	SPATIAL ASSUMPTION CONFIGURATION FOR NEW RADIO (NR) DOWNLINK TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052649		WO/2020/068791		
847	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
848	UE PAGING IN NR UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052682		WO/2020/068598		
849	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
850	TECHNIQUES IN SECONDARY CELL GROUP FAILURE MEASUREMENT REPORT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052667		WO/2020/068821		
851	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
852	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
853	CONNECTION MANAGEMENT SOLUTION TO SUPPORT UNICAST AND GROUPCAST COMMUNICATION OVER SIDELINK FOR EV2X	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053309		WO/2020/069225		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
854	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
855	RADIO ACCESS TECHNOLOGY SELECTION FOR NEW RADIO VEHICLE TO EVERYTHING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052412		WO/2020/053451		
856	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
857	QOS MANAGEMENT ASPECTS FOR NR SIDELINK TO SUPPORT ADVANCED V2X USE CASES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053417		WO/2020/069291		
858	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
859	TECHNIQUES FOR IMPROVING NEW RADIO (NR) POSITIONING PERFORMANCE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053095		WO/2020/069083		
860	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
861	TECHNIQUES TO REDUCE RADIO RESOURCE MANAGEMENT MEASUREMENTS AND USER EQUIPMENT POWER CONSUMPTION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053193		WO/2020/069155		
862	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
863	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
864	RESOURCE ALLOCATION AND CONFIGURATION FOR BROADCAST AND UNICAST OPERATION OVER SIDELINK FOR NR V2X	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053422		WO/2020/069295		
865	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
866	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
867	SYSTEMS AND METHODS FOR MEASUREMENT PERIOD AND ACCURACY FOR BEAM REPORTING BASED ON L1-RSRP	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053210		WO/2020/069154		
868	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
869	METHODS OF NEXT GENERATION NODEB (GNODEB) SUPERVISED USER EQUIPMENT (UE) SOUNDING REFERENCE SIGNAL (SRS) TRANSMIT (TX) BEAM SWEEPING FOR 5G NEW RADIO (NR) UPLINK BEAM MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/051256		WO/2020/068467		
870	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
871	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
872	SYSTEMS AND METHODS FOR NR V2X CSI FEEDBACK WITHOUT DEDICATED REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053218		WO/2020/069170		
873	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
874	PAGING RECEPTION FOR USER EQUIPMENT IN IDLE AND INACTIVE STATE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053175		WO/2020/069144		
875	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
876	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
877	Improved Groupcast and Unicast in New Radio Vehicle-to-Everything (V2X) Communication	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053103		WO/2020/069085		
878	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
879	BEAM FAILURE RECOVERY AND RADIO LINK FAILURE ASSOCIATION IN FIFTH GENERATION (5G)-NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052910		WO/2020/068948		
880	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
881	SUPPORTING INFORMATION CENTRIC NETWORKING IN NEXT GENERATION CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058388		WO/2020/092263		
882	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
883	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
884	PRECONFIGURED SHARED RESOURCES FOR UPLINK TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052908		WO/2020/068947		
885	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
886	REMOTE INTERFERENCE MANAGEMENT REFERENCE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/052361		WO/2020/068625		
887	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
888	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
889	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
890	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
891	ROUTE ADAPTATION IN MULTI-HOP RELAY NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053196		WO/2020/069155		
892	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
893	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
894	SEQUENCE-BASED UPLINK (UL) TRANSMISSION CANCELLATION FOR NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053636		WO/2020/069428		
895	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
896	SOUNDING REFERENCE SIGNAL AND HYBRID AUTOMATIC REPEAT REQUEST FOR NEW RADIO-UNLICENSED	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053382		WO/2020/069269		
897	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
898	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
899	DEMODULATION REFERENCE SIGNAL TRANSMISSION FROM MULTIPLE BASE STATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053178		WO/2020/069147		
900	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
901	SCALING FACTOR FOR NEW RADIO GAP BASED MEASUREMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/053380		WO/2020/069268		
902	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
903	TRANSMISSION OF PHYSICAL UPLINK CHANNELS AND SIGNALS FOR NEW RADIO BEAMFORMED SYSTEM			PCT	APP-Pending	WO	PCT/US2019/054680		WO/2020/072893		
904											
905	NON-PUBLIC NETWORK DISCOVERY SELECTION AND ACCESS CONTROL IN VERTICAL DOMAIN			PCT	APP-Pending	WO	PCT/US2019/054309		WO/2020/072893		
906											
907	INTERFERENCE MITIGATION IN ULTRA-DENSE WIRELESS NETWORKS			NP	APP-Pending	US	16/159236		US-2019-0116560-A1		
908	DOWNLINK (DL) TRANSMISSION TIMING OF INTEGRATED ACCESS AND BACKHAUL (IAB) NODE			PCT	APP-Pending	WO	PCT/US2019/054611		WO/2020/072891		
909											
910	SYSTEMS METHODS AND APPARATUSES FOR ENABLING RELAY SERVICES FOR USER EQUIPMENT TO ACCESS 5GC VIA A RESIDENTIAL GATEWAY			PCT	APP-Pending	WO	PCT/US2019/054302		WO/2020/072652		
911											
912	POWER ALLOCATION IN NEW RADIO AND LONG TERM EVOLUTION DUAL CONNECTIVITY			PCT	APP-Pending	WO	PCT/US2019/054654		WO/2020/072877		
913											
914	MOBILE DEVICE CONTEXT TRANSFER IN A 5G SYSTEM			PCT	APP-Pending	WO	PCT/US2019/055093		WO/2020/076750		
915											
916	ADDITIONAL DMRS FOR NR PDSCH CONSIDERING LTE-NR DL SHARING			PCT	APP-Pending	WO	PCT/US2019/054604		WO/2020/072847		
917											
918											
919											
920											
921	UE CAPABILITY TRANSFER AND STORAGE			PCT	APP-Pending	WO	PCT/US2019/055880		WO/2020/077230		
922											
923	RADIO LINK MONITORING (RLM) ENHANCEMENTS			PCT	APP-Pending	WO	PCT/US2019/055443		WO/2020/076961		
924											
925	ENHANCED PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) POWER CONTROL			PCT	APP-Pending	WO	PCT/US2019/056388		WO/2020/081602		
926											
927	WAKE-UP SIGNAL DESIGN			PCT	APP-Pending	WO	PCT/US2019/056146		WO/2020/081466		
928											
929											
930											
931											
932	SYSTEMS METHODS AND DEVICES FOR ACCESS CONTROL FOR PRIVATE SLICES IN A PLMN			PCT	APP-Pending	WO	PCT/US2019/055677		WO/2020/081773		
933											
934	DOWNLINK PHASE-TRACKING REFERENCE SIGNAL RESOURCE MAPPING			PCT	APP-Pending	WO	PCT/US2019/056589		WO/2020/081721		
935											
936	LATENCY MANAGEMENT FOR INTEGRATED ACCESS AND BACKHAUL			PCT	APP-Pending	WO	PCT/US2019/056598		WO/2020/081729		
937											
938	DYNAMIC RADIO FREQUENCY SWITCHING IN NEW RADIO FOR RADIO RESOURCE MANAGEMENT IN RADIO RESOURCE CONTROL CONNECTED STATE			PCT	APP-Pending	WO	PCT/US2019/057425		WO/2020/086571		
939											
940											
941	MEASUREMENT GAP ENHANCEMENTS			PCT	APP-Pending	WO	PCT/US2019/057330		WO/2020/086518		
942											
943	USER PLANE EARLY DATA TRANSMISSION (EDT) MESSAGE 4 (MSG4) LOSS			PCT	APP-Pending	WO	PCT/US2019/057793		WO/2020/086804		
944											
945	SIGNALING OF TIMING ADVANCE (TA) OFFSETS IN IAB NETWORKS			PCT	APP-Pending	WO	PCT/US2019/057823		WO/2020/086826		
946											
947	TECHNOLOGIES FOR PERFORMANCE DATA STREAMING			PCT	APP-Pending	WO	PCT/US2019/057379		WO/2020/086542		
948											
949	EMERGENCY CALLING IN A FIFTH GENERATION (5G) NEW			PCT	APP-Pending	WO	PCT/US2019/061548		WO/2020/102588		
950											
951	CONNECTIVITY ENHANCEMENT			PCT	APP-Pending	WO	PCT/US2019/058279		WO/2020/092193		
952											
953											
954	POLICY AND CHARGING CONTROL (PCC) IN INFORMATION CENTRIC NETWORKING			PCT	APP-Pending	WO	PCT/US2019/059410		WO/2020/092314		
955											
956	METHODS OF LIMITED BUFFER RATE-MATCHING (LBRM) PRE-EMPTION AND SIDELINK SYNCHRONIZATION IN NEW RADIO (NR) SYSTEMS			NP	APP-Pending	US	16/181808		US-2019-0141647-A1	Yes	
957	SIGNALING OF NOT AVAILABLE RESOURCES FOR CENTRAL COORDINATION IN IAB NETWORKS			PCT	APP-Pending	WO	PCT/US2019/058613		WO/2020/092493		
958											
959											
960	OFF-RASTER SSB DESIGN IN IAB NETWORKS			PCT	APP-Pending	WO	PCT/US2019/058533		WO/2020/092448		
961											
962	TECHNIQUES IN ADAPTIVE IN-SYNC AND OUT-OF-SYNC CLASSIFICATION BASED ON CHANNEL PARAMETER ESTIMATION IN NEW RADIO			PCT	APP-Pending	WO	PCT/US2019/055587		WO/2020/096746		
963											

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
964	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
965	ENHANCED PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) TRANSMISSION FOR HIGH RELIABILITY	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058383		WO/2020/092260		
966	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
967	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
968	MOBILITY MANAGEMENT IN INFORMATION CENTRIC NETWORKING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058860		WO/2020/092560		
969	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
970	PERFORMANCE MEASUREMENTS RELATED TO PDU SESSION AND N4 SESSION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058737		WO/2020/092484		
971	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
972	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
973	SCHEDULING REQUEST ENHANCEMENTS FOR 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058551		WO/2020/092359		
974	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
975	SECONDARY PHYSICAL RANDOM ACCESS CHANNEL (PRACH) CONFIGURATION FOR CONTENTION BASED RANDOM ACCESS IN NEW RADIO SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058887		WO/2020/092585		
976	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
977	SEMI-STATIC RESOURCE ALLOCATION FOR NEW RADIO INTEGRATED ACCESS AND BACKHAUL (IAB) NETWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059250		WO/2020/092833		
978	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
979	SYSTEMS METHODS AND DEVICES FOR ENABLING LIVE MEDIA PRODUCTION SERVICES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058177		WO/2020/092174		
980	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
981	ENHANCEMENT OF USER PLANE FLOW CONTROL FOR RETRANSMITTED PACKETS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058549		WO/2020/092357		
982	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
983	SIGNALING FOR MAC-I VERIFICATION IN RNAU WITHOUT ANCHOR RELOCATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058811		WO/2020/092527		
984	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
985	ROBUST HEADER COMPRESSION INDICATION AFTER PATH SWITCH DURING HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/057868		WO/2020/092124		
986	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
987	SECURITY FRAMEWORK FOR MESSAGE 3 (MSG3) AND MESSAGE 4 (MSG4) IN EARLY DATA TRANSMISSION	[redacted]	[redacted]	PSP	APP-Closed	US	62/753841				
988	PAGING USER EQUIPMENT IN NEW RADIO UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/057695		WO/2020/092095		
989	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
990	SYSTEMS METHODS AND DEVICES FOR PRIVACY AND CONTROL OF TRAFFIC ACCESSING PLMN SERVICE AT A NON-PUBLIC NETWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058176		WO/2020/092173		35
991	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
992	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
993	TRANSMISSION RETRANSMISSION AND HARQ PROCESS FOR PRECONFIGURED UPLINK RESOURCE IN IDLE MODE	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/057885		WO/2020/092126		
994	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
995	QOS-AWARE CONGESTION CONTROL RESOURCE ALLOCATION AND IN-DEVICE COEXISTENCE SOLUTIONS FOR NR V2X SIDELINK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059056		WO/2020/092706		
996	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
997	DATA-AIDED SIDELINK SYNCHRONIZATION FOR NR V2X COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059136		WO/2020/092751		
998	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
999	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1000	UNMANNED AERIAL VEHICLE ANTENNA CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/067855		WO/2020/139369		
1001	DETECTING AND MITIGATING DRONE INTERFERENCE	[redacted]	[redacted]	NP	APP-Pending	US	16/234273		US-2019-0306675-A1		
1002	SIGNALING CODEC MODE NOTIFICATIONS FOR MULTIMEDIA TELEPHONY SESSIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059230		WO/2020/092818		
1003	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1004	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) ACKNOWLEDGEMENT (ACK) CODEBOOK DETERMINATION ENHANCEMENTS IN CASE OF MULTIPLE DOWNLINK CONTROL INFORMATION (DCI) IN A SLOT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059547		WO/2020/093016		
1005	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1006	RANDOM DMRS SEQUENCE GENERATION IN NR UPLINK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059147		WO/2020/092760		
1007	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1008	CHANNEL OCCUPANCY TIME INDICATION FOR NR BASED UNLICENSED OPERATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059451		WO/2020/092941		
1009	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1010	TIME SYNCHRONIZATION ACCURACY ENHANCEMENTS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059528		WO/2020/093000		
1011	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1012	SIDELINK RESOURCE ALLOCATION AND USER EQUIPMENT PROCESSING BEHAVIORS FOR NEW RADIO VEHICLE TO ANYTHING SIDELINK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059436		WO/2020/092931		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1033	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1034	RADIO LINK MONITORING ENHANCEMENTS FOR POWER SAVINGS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058758		WO/2020/092496		
1035	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1036	CSI MEASUREMENT AND REPORT QUALITY DEFINITION FOR 5G NR MULTI-TRP	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058714		WO/2020/092468		
1037	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1038	RLM ENHANCEMENTS FOR 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058557		WO/2020/092363		
1039	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1040	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1041	PROTECTION OF INITIAL NON-ACCESS STRATUM PROTOCOL MESSAGE IN 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/058837		WO/2020/092542		
1042	FULL PROTECTION OF INITIAL NON-ACCESS STRATUM PROTOCOL MESSAGE IN 5G SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/755384			Yes	
1043	REMOTE INTERFERENCE MANAGEMENT REFERENCE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059233		WO/2020/092820		
1044	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1045	MECHANISMS FOR BANDWIDTH PART (BWP) SWITCHING IN A NEW RADIO (NR) NETWORK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059717		WO/2020/096987		
1046	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1047	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1048	SIGNALING FOR RESOURCE ALLOCATION AND SCHEDULING IN 5G-NR INTEGRATED ACCESS AND BACKHAUL	[redacted]	[redacted]	NP	APP-Pending	US	16/188357		US-2019-0222281-A1	Yes	
1049	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1050	DESIGN OF SYNCHRONIZATION SIGNALS FOR MULTEFIRE NARROWBAND INTERNET-OF-THINGS (MF NB-IOT) OPERATION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	APP-Pending	US	16/242659		US-2019-0208574-A1		
1051	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1052	VEHICLE-TO-EVERYTHING (V2X) POLICY AND PARAMETERS FOR NG-RU COMMUNICATION PROVISIONED TO USER EQUIPMENT (UE) BY POLICY CONTROL FUNCTION (PCF)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059797		WO/2020/097081		
1053	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1054	A METHOD TO DETERMINE SPATIAL QUASI CO-LOCATION (QCL) ASSUMPTION FOR CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) IN NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059070		WO/2020/096852		
1055	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1056	Redundant DCO Tuning with Overlapping Fractional Regions	[redacted]	[redacted]	NP	APP-Pending	US	16/366122	10 771 071			
1057	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1058	BEAM MANAGEMENT FOR PARTIAL BEAM CORRESPONDENCE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/060188		WO/2020/097280		
1059	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1060	BEAM SWITCHING IN INTRA-BAND NON-CONTIGUOUS CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/060716		WO/2020/102076		
1061	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1062	SYNCHRONIZATION SIGNAL BLOCK BASED BEAM FAILURE DETECTION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/060711		WO/2020/060711		
1063	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1064	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1065	COMMAND HANDLING FOR SIMULTANEOUS CONNECTIVITY HANDOFFS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/060864		WO/2020/102158		
1066	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1067	DOWNLINK CONTROL CHANNEL SIGNALING FOR UL COEXISTENCE OF MULTIPLE SERVICE TYPES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/060853		WO/2020/102151		
1068	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1069	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1070	IAB MT SIGNALING OF RELEASED RESOURCES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/061126		WO/2020/102308		
1071	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1072	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1074	NETWORK SELECTION AND SERVICE CONTINUITY IN NON-PUBLIC NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/061103		WO/2020/102292		
1075	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1076	SELF-LEARNING UE CAPABILITY VERIFICATION FROM PARTIAL REPORTED CAPABILITIES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/061242		WO/2020/102397		
1077	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1078	TECHNIQUES IN RETRIEVING CACHED CONTENT USING INFORMATION CENTRIC NETWORKING FOR PROTOCOL DATA UNIT SESSIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/059440		WO/2020/092533		
1079	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1080	METHOD FOR PHYSICAL LAYER SECURITY PROTECTION USING PUBLIC KEYS	[redacted]	[redacted]	NP	PAT-Active	US	16/245009	10425810	US-2019-0149986-A1		
1081	APPARATUS AND METHOD OF LWA AND LWIP CONFIGURATION PERFORMANCE AND FAULT MANAGEMENT	[redacted]	[redacted]	NP	APP-Pending	US	16/240823		US-2019-0141785-A1		
1082	PHASE TRACKING REFERENCE SIGNAL (PT-RS) POWER BOOSTING	[redacted]	[redacted]	NP	APP-Pending	US	16/238232		US-2019-0140728-A1		
1083	PAGING CAUSE DETERMINATION FOR AN INACTIVE DEVICE IN A 5G SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/061973		WO/2020/106611		
1084	PAGING CAUSE DETERMINATION FOR INACTIVE DEVICE IN THE 5G SYSTEM	[redacted]	[redacted]	PSP	APP-Closed	US	62/769312			Yes	
1085	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1086	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1087	SYSTEM AND METHOD FOR BEAM INDICATION FOR UPLINK AND DOWNLINK TRANSMISSIONS	[redacted]	[redacted]	PSP	APP-Closed	US	62/770404			Yes	

	A	B	C	D	E	F	G	H	I	J	K
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1068	REFERENCE SIGNAL RECEIVED POWER (RSRP) MEASUREMENT PROCEDURE FOR A COMMUNICATION SYSTEM OPERATING IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/062052		WO/2020/112415		
1069	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1070	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1071	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1072	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1074	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1075	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1076	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1077	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1078	BEAM MANAGEMENT FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	NP	APP-Pending	US	16/242821		US-2019-0239245-A1		
1079	BEAM MANAGEMENT FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	CNT	APP-Pending	US	16/408021		US-2019-0357249-A1		
1080	BEAM INDICATION CONSIDERING BEAM FAILURE RECOVERY IN NEW RADIO	[redacted]	[redacted]	NP	APP-Pending	US	16/245970		US-2019-0239212-A1		
1081	SIZE DETERMINATION FOR CHANNEL STATE INFORMATION (CSI) PART ONE AND PART TWO TRANSMISSION OF CSI REPORT	[redacted]	[redacted]	NP	APP-Pending	US	16/243887		US-2019-0149291-A1		
1082	TIME DENSITY AND FREQUENCY DENSITY DETERMINATION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/245410		US-2019-0166615-A1		
1083	CSI-RS SEQUENCE GENERATION AND MAPPING AND DMRS SCRAMBLING ID CONFIGURATION	[redacted]	[redacted]	NP	APP-Pending	US	16/247171		US-2019-0149294-A1	Yes	
1084	CSI-RS SEQUENCE GENERATION AND MAPPING AND DMRS SCRAMBLING ID CONFIGURATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/407743		US-2019-0327050-A1	Yes	
1085	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1086	TIME DOMAIN RESOURCE ALLOCATION FOR MOBILE COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	US	16/246407		US-2019-0149365-A1	Yes	
1087	CONTENTION WINDOW ADJUSTMENT MECHANISMS FOR FELAA SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/250360		US-2019-0159256-A1	Yes	
1088	CONTENTION WINDOW ADJUSTMENT MECHANISMS FOR FELAA SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/407767		US-2019-0335501-A1	Yes	
1089	CONTROL SIGNALING FOR UPLINK MULTIPLE INPUT MULTIPLE OUTPUT CHANNEL STATE INFORMATION REFERENCE SIGNAL CONFIGURATION AND SOUNDING REFERENCE SIGNAL CONFIGURATION	[redacted]	[redacted]	NP	APP-Pending	US	16/252294		US-2019-0174466-A1	Yes	
1090	HANDLING OVERLAPPING OF PUCCH AND PUSCH FOR NEW RADIO SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/251762		US-2019-0261391-A1	Yes	
1091	HANDLING OVERLAPPING OF PUCCH AND PUSCH FOR NEW RADIO SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/407775		US-2019-0335485-A1	Yes	
1092	CHANNEL CONFIGURATION AND DLUL CONFIGURATION FOR NB-IOT-U SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/267810		US-2019-0174476-A1		
1093	INDICATION TECHNIQUES FOR NARROWBAND SYSTEM INFORMATION BLOCK TYPE 1 (SIB1-NB) TRANSMISSION ON A CARRIER	[redacted]	[redacted]	NP	APP-Pending	US	16/273566		US-2019-0190686-A1	Yes	
1094	INDICATION TECHNIQUES FOR NARROWBAND SYSTEM INFORMATION BLOCK TYPE 1 (SIB1-NB) TRANSMISSION ON A CARRIER	[redacted]	[redacted]	CNT	APP-Pending	US	16/408030		US-2019-0273599-A1		
1095	TWO-TONE PHYSICAL UPLINK SHARED CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	US	16/277870		US-2019-0215849-A1	Yes	
1096	TWO-TONE PHYSICAL UPLINK SHARED CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Pending	US	16/408298		US 2019-0373624 A1		
1097	RESERVED RESOURCE ELEMENTS FOR HYBRID AUTOMATIC REPEAT REQUEST BITS	[redacted]	[redacted]	NP	APP-Pending	US	16/246102		US-2019-0166597-A1	Yes	
1098	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1099	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1100	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1101	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1102	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1103	FREQUENCY HOPPING PATTERN FOR NARROWBAND INTERNET-OF-THINGS IN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	APP-Pending	US	16/261130		US-2019-0158139-A1		
1104	SIMULTANEOUS HARQ-ACK FEEDBACK AND UPLINK TRANSMISSION WITHOUT DYNAMIC GRANT	[redacted]	[redacted]	NP	APP-Pending	US	16/274953		US-2019-0327755-A1	Yes	
1105	SIMULTANEOUS HARQ-ACK FEEDBACK AND UPLINK TRANSMISSION WITHOUT DYNAMIC GRANT	[redacted]	[redacted]	CNT	APP-Pending	US	16/407786		US-2019-0335488-A1	Yes	
1106	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1107	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1108	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1109	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1110	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1111	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1112	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
1113	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1114	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
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1117	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1119	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1120	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
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1122	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1123	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1124	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1125	REFERENCE SIGNAL DESIGN FOR A SYSTEM OPERATING ABOVE 526 GIGAHERTZ (GHZ) CARRIER FREQUENCY	[redacted]	[redacted]	PSP	APP-Pending	US	62/790978			Yes	
1126	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1127	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1128	SECURITY FRAMEWORK FOR MSG3 AND MSG4 IN EARLY DATA TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	16/294653		US-2019-0208411-A1		
1129	SECURITY FRAMEWORK FOR MSG3 AND MSG4 IN EARLY DATA TRANSMISSION	[redacted]	[redacted]	CNT	APP-Pending	US	16/407166		US 2019-0373456 A1		
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1169	UE CAPABILITIES PROVISIONING AND RETRIEVAL IN CELLULAR NETWORKS	[redacted]	[redacted]	NP	APP-Pending	US	16/376528		US-2019-0239064-A1		
1170	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1171	5G RAN1 A Method for Beam Failure Detection in NR	[redacted]	[redacted]	NP	APP-Pending	CN	2019102323950		110351112		
1172	TRANSPORT BLOCK SIZE (TBS) DETERMINATION IN FULL-DIMENSION MULTIPLE-INPUT MULTIPLE-OUTPUT (FD MIMO) NETWORKS	[redacted]	[redacted]	NP	APP-Pending	US	16/371970		US-2019-0230699-A1		
1173	CONFIGURATION AND DESIGN OF CQI AND MCS TABLES FOR 5G COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	US	16/372877		US-2019-0253121-A1	Yes	
1174	5G RAN1 System and Method for QCL indication for aperiodic TRS	[redacted]	[redacted]	NP	APP-Pending	CN	2019102847212		110365458		
1175	SYSTEM INFORMATION IN UNLICENSED NARROWBAND INTERNET OF THINGS (NB-IOT) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/384672		US-2019-0246454-A1		
1176	CHANNEL CONFIGURATION AND DOWNLINK/UPLINK CONFIGURATION FOR NARROW BAND INTERNET OF THINGS (NB-IOT) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/388128		US-2019-0254015-A1		

	A	B	C	D	E	F	G	H	I	J	K
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1177	CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) AND SOUNDING REFERENCE SIGNAL (SRS) TRIGGERING	[redacted]	[redacted]	NP	APP-Pending	US	16/397916		US-2019-0273637-A1	Yes	
1178	CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) AND SOUNDING REFERENCE SIGNAL (SRS) TRIGGERING	[redacted]	[redacted]	CNT	APP-Pending	US	16/408375		US-2019-0327115-A1	Yes	
1179	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1180	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1181	PUCCH AND PUSCH DEFAULT BEAM CONSIDERING BEAM FAILURE RECOVERY	[redacted]	[redacted]	NP	APP-Pending	US	16/298418		US-2019-0230730-A1	Yes	
1182	PUCCH AND PUSCH DEFAULT BEAM CONSIDERING BEAM FAILURE RECOVERY	[redacted]	[redacted]	CNT	APP-Pending	US	16/407801		US-2019-0335524-A1	Yes	
1183	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1184	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1185	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1186	SINGLE RADIO VOICE CALL CONTINUITY HANDOVER	[redacted]	[redacted]	NP	APP-Pending	US	16/273975		US-2019-0182718-A1	Yes	
1187	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1196	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1197	NR RRM ENHANCEMENTS IN MEASUREMENT EVENT AND REPORTING AND CELL RESELECTION CRITERIA FOR UNLICENSED BAND OPERATION	[redacted]	[redacted]	PSP	APP-Pending	US	62/805156			Yes	
1198	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1201	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1202	Systems and Methods for Physical Random Access Channel Transmissions	[redacted]	[redacted]	NP	APP-Pending	US	16/376333		US-2019-0239283-A1		
1203	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1209	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1210	SYSTEM AND METHOD FOR EMISSION AND PANEL AWARE BEAM SELECTION	[redacted]	[redacted]	PSP	APP-Pending	US	62/805873			Yes	
1211	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
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1234											
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1258	OPERATIONS AND NOTIFICATIONS FOR PERFORMANCE MANAGEMENT OF 5G NETWORKS AND NETWORK SLICING			NP	APP-Pending	US	16/396312		US-2020-0253912-A1	Yes	
1259	OPERATIONS AND NOTIFICATIONS FOR PERFORMANCE MANAGEMENT OF 5G NETWORKS AND NETWORK SLICING			CNT	APP-Pending	US	16/408446		US-2019-0335350-A1	Yes	
1260	MANAGING VIRTUAL LINKS IN A NETWORK SERVICE INSTANCE			NP	APP-Pending	US	16/357559		US-2019-0280938-A1	Yes	
1261	MANAGING VIRTUAL LINKS IN A NETWORK SERVICE INSTANCE			CNT	APP-Pending	US	16/408448		US-2019-0334783-A1	Yes	
1262	RAN4 On mechanism for synchronization raster for FR1 re-farming bands			NP	APP-Pending	CN	201910296026S		110381577		
1263	Enhancements on Random Access for NR-Unlicensed			NP	APP-Pending	US	16/362387		US-2020-0221255-A1	Yes	
1264											
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1281	MEASUREMENT OBJECTS IN A NEW RADIO (NR) SYSTEM			NP	APP-Pending	US	16/373065		US-2019-0305550-A1		
1282	MEASUREMENT OBJECTS IN A NEW RADIO (NR) SYSTEM			CNT	APP-Pending	US	16/408250		US-2019-0137599-A1		
1283											
1284	NEXT GENERATION NODE-B (GNB) FOR INTEGRATED ACCESS AND BACKHAUL (IAB) RELAY IN NEW RADIO (NR) NETWORKS			NP	APP-Pending	US	16/366735		US-2019-0273678-A1		
1285	METHODS OF BEAM MANAGEMENT AND BEAM SELECTION BASED ON MEASUREMENT REPORTING IN NEW RADIO (NR) SYSTEMS			NP	APP-Pending	US	16/375047		US-2019-0238208-A1		
1286											
1287											
1288											
1289											
1290											

	A	B	C	D	E	F	G	H	I	J	K
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
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1293	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1294	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1297	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
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1301	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1302	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1303	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1304	User Equipment (UE) Downlink Transmission Configuration Indication (TCI)-State Selection	[redacted]	[redacted]	NP	APP-Pending	US	16/406594		US-2019-0281587-A1		
1305	SYMBOL PUNCTURE FOR UNLICENSED NARROWBAND INTERNET OF THINGS (NB IOT)	[redacted]	[redacted]	NP	APP-Pending	US	16/406282		US-2019-0268970-A1	Yes	
1306	MULTIPLEXING PHYSICAL UPLINK CONTROL CHANNELS IN A SLOT FOR A NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	16/404609		US-2019-0261361-A1		
1307	UE USING UPLINK GRANT-BASED TRANSMISSIONS AND EXTENDED POWER GRANT-FREE NOMA TRANSMISSIONS	[redacted]	[redacted]	NP	APP-Pending	US	16/408924		US-2019-0289628-A1		
1308	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1319	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1320	SCHEDULING RESTRICTION DUE TO UE SIMULTANEOUS RX/TX CAPABILITY IN INTER-BAND CA OR DC	[redacted]	[redacted]	PSP	APP-Pending	US	62/824143			Yes	
1321	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1322	METHODS FOR ETHERNET HEADER COMPRESSION	[redacted]	[redacted]	PSP	APP-Pending	US	62/824905			Yes	
1323	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1325	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1326	INDICATION OF THE NUMBER OF REPETITIONS FOR DCI FORMAT 3/3A FOR EMTC	[redacted]	[redacted]	PSP	APP-Pending	US	62/825623			Yes	
1327	DESIGN OF USER EQUIPMENT GROUP PHYSICAL DOWNLINK CONTROL CHANNEL BASED WAKE UP SIGNAL OR CHANNEL	[redacted]	[redacted]	PSP	APP-Pending	US	62/826818			Yes	
1328	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1330	RSS BASED RSRP CALCULATION AND ACCURACY	[redacted]	[redacted]	PSP	APP-Pending	US	62/826706			Yes	
1331	SSB MEASUREMENT ACCURACY TESTING	[redacted]	[redacted]	PSP	APP-Pending	US	62/826702			Yes	
1332	METHODS TO ENHANCE PDCP DUPLICATION	[redacted]	[redacted]	PSP	APP-Pending	US	62/824965			Yes	
1333	UE BASED PDCP DUPLICATION ACTIVATION DEACTIVATION	[redacted]	[redacted]	PSP	APP-Pending	US	62/841758			Yes	
1334	ON HANDLING OVERLAPPING BETWEEN PUCCH AND PUSCH FOR MULTI-TRP OPERATION	[redacted]	[redacted]	PSP	APP-Pending	US	62/825688			Yes	
1335	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1359	ON THE DELAY AND INTERRUPTION REQUIREMENT FOR BWP SWITCHING	[redacted]	[redacted]	PSP	APP-Pending	US	62/827766			Yes	
1360	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1371	METHODS OF ADAPTIVE TRANSMISSION IN LOW LATENCY SCENARIOS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/418768		US-2019-0273578-A1		
1372	Interlace-Based Uplink Physical Channel Design for New Radio-Unlicensed (NR-U)	[redacted]	[redacted]	NP	APP-Pending	US	16/402480		US-2019-0342874-A1		
1373	CONFIGURABLE RESYNCHRONIZATION SIGNAL (RSS) FOR MACHINE TYPE COMMUNICATION (MTC) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/409183		US-2019-0268904-A1	Yes	
1374	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1378	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1379	UE INDICATION TO PCF WHETHER OR NOT TO SEND UE POLICY	[redacted]	[redacted]	NP	APP-Pending	US	16/411701		US-2019-0268835-A1		
1380	MECHANISM ON MEASUREMENT GAP BASED INTER-FREQUENCY MEASUREMENT	[redacted]	[redacted]	NP	APP-Pending	US	16/411717		US-2019-0274146-A1		
1381	APPARATUS SYSTEM AND METHOD OF CONFIGURING NEW RADIO (NR) MEASUREMENTS	[redacted]	[redacted]	NP	APP-Pending	US	16/436951		US-2019-0313271-A1		
1382	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1384	MOBILITY MANAGEMENT FOR INTER-GNB (NEXT GENERATION NODE-B) HANDOVER IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/419245		US-2019-0342800-A1		
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1393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1394	SYSTEM AND METHOD FOR BEAM FAILURE RECOVERY REQUEST	[redacted]	[redacted]	PSP	APP-Pending	US	62/842361			Yes	
1395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1439	UNLICENSED BAND IOT SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/451292		US-2019-0313481-A1	Yes	
1440	EMISSION AND PANEL AWARE BEAM SELECTION	[redacted]	[redacted]	NP	APP-Pending	US	16/447584		US-2019-0306850-A1	Yes	
1441	BEAM INDICATION FOR SEMI-PERSISTENT AND GRANT-FREE TRANSMISSIONS	[redacted]	[redacted]	NP	APP-Pending	US	16/449294		US-2019-0306924-A1	Yes	
1442	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
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1450	TECHNIQUES IN CONFIGURED GRANT UPLINK TRANSMISSION IN NEW RADIO (NR) SYSTEMS OPERATING IN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	APP-Pending	US	16/509847		US-2019-0342911-A1	Yes	
1451	UPLINK TRANSMISSION FOR MULTI-PANEL OPERATION	[redacted]	[redacted]	NP	APP-Pending	US	16/502344			Yes	
1452	USER EQUIPMENT TRANSMISSION POWER CONTROL	[redacted]	[redacted]	NP	APP-Pending	US	16/502477		US-2019-0327691-A1	Yes	
1453	METHODS TO DETERMINE PARAMETERS RELATED TO PHASE TRACKING REFERENCE SIGNALS (PT-RS) BASED ON A TYPE OF RADIO NETWORK TEMPORARY IDENTIFIER (RNTI)	[redacted]	[redacted]	NP	APP-Pending	US	16/510077		US 2020-0008270 A1	Yes	
1454	DOWNLINK CONTROL CHANNEL SIGNALING FOR IMPROVING UE POWER CONSUMPTION	[redacted]	[redacted]	NP	APP-Pending	US	16/520522		US 2020-0037396 A1	Yes	
1455	PBCH CONTENT FOR NR UNLICENSED	[redacted]	[redacted]	NP	APP-Pending	US	16/515704		US-2019-0342826-A1	Yes	
1456	REFERENCE SIGNAL AND CONTROL INFORMATION PROCESSING IN 5G-NR WIRELESS SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	US	16/446320		US-2019-0306923-A1	Yes	
1457	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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1470	SESSION DESCRIPTION PROTOCOL {SDP}-BASED METHODS FOR IMMERSIVE TELECONFERENCING AND TELEPRESENCE	[redacted]	[redacted]	PSP	APP-Pending	US	62/866488			[redacted]	
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1476	CHANNEL QUALITY MEASUREMENT REPORTING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/044991				
1477	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1478	CONTENTION WINDOW SIZE UPDATE FOR NR SYSTEMS OPERATING ON UNLICENSED BAND	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045445				
1479	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1480	BEAM COMBINING BASED CHANNEL STATE INFORMATION {CSI} FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045508				
1481	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1482	Wake-Up Signal Sub-Grouping for Enhanced Machine Type Communication (EMTC) and Narrowband Internet of Things (NB-IOT)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045606				
1483	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1484	PHYSICAL UPLINK SHARED CHANNEL ENHANCEMENTS FOR NEW RADIO ULTRA-RELIABLE LOW-LATENCY COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045828				
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1486	DOWNLINK CONTROL CHANNEL SIGNALING FOR UPLINK COEXISTANCE OF MULTIPLE SERVICE TYPES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045672				
1487	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1488	DATA AND CONTROL TRANSMISSION ENHANCEMENTS FOR NEW RADIO {NR}	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045993				
1489	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1490	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1491	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1492	SYSTEMS AND METHODS FOR USING UNMANNED AERIAL SYSTEMS IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/046023				
1493	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1494	DOWNLINK SIGNAL AND NOISE CONTROL TO TEST USER EQUIPMENT PERFORMANCE REQUIREMENTS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/045651				
1495	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1496	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1497	COLLISION HANDLING FOR UPLINK CONTROL INFORMATION TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/047205				
1498	Apparatus and Method for Multefire Industry Release {MFIR}	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2019/048450				
1499	Folded Planar Antenna	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/013072		WO2019/139567		
1500	METHOD AND APPARATUS FOR IMPROVED DPLL SETTLING AND TEMPERATURE COMPENSATION ALGORITHMS USING SECOND OPEN LOOP OSCILLATOR TUNING FIELD	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/025598		WO2019/190567		
1501	REDUCED CSI {CHANNEL STATE INFORMATION}-RS {REFERENCE SIGNAL} DENSITY SUPPORT FOR FD {FULL DIMENSIONAL}-MIMO {MULTIPLE INPUT MULTIPLE OUTPUT} SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/467566		US-2019-0357221-A1		
1502	TECHNIQUES FOR RADIO CELL RESELECTION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/015871		WO2019/151978		
1503	USER EQUIPMENT HYSTERESIS FOR SIGNAL BLOCKAGE DETECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2018/017555		WO2018/148500		
1504	USER EQUIPMENT HYSTERESIS FOR SIGNAL BLOCKAGE DETECTION	[redacted]	[redacted]	EPT	APP-Pending	EP	187071931		3580866		
1505	USER EQUIPMENT HYSTERESIS FOR SIGNAL BLOCKAGE DETECTION	[redacted]	[redacted]	PCT	APP-Pending	US	16/478106				
1506	LWIP USER PLANE INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	CN	2017800746979		110036658	Yes	
1507	REFERENCE SIGNAL TIME DIFFERENCE {RSTD} MEASUREMENTS FOR OBSERVED TIME DIFFERENCE OF ARRIVAL {OTDOA} POSITIONING	[redacted]	[redacted]	PCT	APP-Pending	US	16/347800		US-2019-0257916-A1		
1508	MESSAGE 3 TRANSMISSION IN RANDOM ACCESS PROCEDURE FOR NR	[redacted]	[redacted]	EPT	APP-Pending	EP	178676185		3536102	Yes	
1509	SIGNALING TO SUPPORT REDUCED PROCESSING TIME	[redacted]	[redacted]	PCT	APP-Pending	US	16/327775		US-2019-0215906-A1		
1510	UE AND DEVICES FOR CODEC RATE ADAPTATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/339300			Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	CTS# DECLARED?	
1511	SYSTEMS AND METHODS FOR BROADCASTING INFORMATION TO USER EQUIPMENT OF A WIRELESS TELECOMMUNICATION NETWORK	[redacted]		PCT	APP Pending	DE	112017005578		112017005578		
1512	TECHNIQUES FOR RESOURCE SHARING			PCT	APP Pending	WO	PCT/US2018/016798		WO2018/145688		
1513	CONFIGURATION OF RADIO RESOURCE MANAGEMENT MEASUREMENT			PCT	APP Pending	CN	201780006214.8		108886458		
1514	DEVICES FOR PER-CC MEASUREMENT GAP CONFIGURATION			EPT	APP Pending	EP	17870199		3539351	Yes	
1515	DYNAMIC PROTOCOL STACK RESET DURING RADIO HANDOVER			PCT	APP Pending	US	16/348380		US 2019-0313296 A1	Yes	
1516	COVERAGE ENHANCEMENT FOR UNLICENSED INTERNET OF THINGS (U-IOT)			PCT	APP Pending	US	16/345983		US-2019-0288813-A1		
1517	MIXED MODE BLUETOOTH COMMUNICATIONS			PCT	APP Pending	WO	PCT/US2017/060707		WO2018/093556		
1518	VEHICLE-TO-EVERYTHING POSITIONING TECHNIQUE			PCT	APP Closed	WO	PCT/US2017/063307		WO2018/106467		
1519	WWP (LTE/WLAN RADIO LEVEL INTEGRATION USING IPSEC TUNNEL) PACKET ACKNOWLEDGMENT USING GRE (GENERIC ROUTING ENCAPSULATION) HEADER	[redacted]		PCT	APP Closed	WO	PCT/US2017/061936		WO2018/102138	Yes	
1520	SYSTEMS METHODS AND DEVICES FOR VIRTUAL NETWORK FUNCTION VIRTUAL PROCESSOR USAGE REPORTING IN CELLULAR NETWORKS	[redacted]		PCT	APP Closed	WO	PCT/US2017/064538		WO2018/106604		
1521	UE BEHAVIORS FOR SEMI-PERSISTENT CSI-RS TRANSMISSION AND CSI REPORTING	[redacted]		PCT	APP Closed	WO	PCT/US2017/065312		WO2018/107026		
1522	ADVANCED CONTROL CHANNEL FOR COVERAGE ENHANCEMENT			PCT	APP Closed	WO	PCT/US2017/064626		WO2018/106665		
1523	FAKE GNB/ENB DETECTION USING IDENTITY-BASED AUTHENTICATION AND ENCRYPTION	[redacted]		PCT	APP Closed	WO	PCT/US2018/012385		WO2018/140306		
1524	FAKE GNB/ENB DETECTION USING IDENTITY-BASED AUTHENTICATION AND ENCRYPTION	[redacted]		PCT	APP Pending	US	16/478895		US-2019-0349785-A1		
1525	MULTI-FIRE USER EQUIPMENT FOR GRANTLESS UPLINK TRANSMISSION			PCT	APP Closed	WO	PCT/US2017/065102		WO2018/106611		
1526	USER EQUIPMENT (UE) GENERATION NODE-B (GNB) AND METHODS FOR SIGNALING OF CONTROL INFORMATION FOR PRE CODING	[redacted]		PCT	APP Closed	WO	PCT/US2017/065710		WO2018/111895	Yes	
1527	USER EQUIPMENT (UE) GENERATION NODE-B (GNB) AND METHODS FOR SIGNALING OF CONTROL INFORMATION FOR PRE-CODING	[redacted]		PCT	APP Pending	US	16/349556		US 2020-0196388 A1	Yes	
1528	SYSTEMS METHODS AND DEVICES FOR REPORTING SUPPORTED CELLULAR CAPABILITY COMBINATIONS	[redacted]		PCT	APP Closed	WO	PCT/US2017/067944		WO2018/118788		
1529	SYSTEMS METHODS AND DEVICES FOR REPORTING SUPPORTED CELLULAR CAPABILITY COMBINATIONS	[redacted]		PCT	APP Pending	CN	201780078559.8		110089064		
1530	CHANNEL COVARIANCE MATRIX BASED ON CHANNEL MEASURMENTS FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Closed	WO	PCT/US2017/066626		WO2018/118677		
1531	PRE-GRANT PACKET HEADER PROCESSING			PCT	APP Closed	WO	PCT/US2017/068334.1		WO2018/139458		
1532	BEAMFORMING MEASUREMENTS BASED ON PSS/SSS			PCT	APP Closed	WO	PCT/US2017/064751		WO2018/118439	Yes	
1533	BEAMFORMING MEASUREMENTS BASED ON PSS/SSS	[redacted]		PCT	APP Pending	US	16/471506		US-2019-0327650-A1	Yes	
1534	SYSTEMS AND METHODS FOR PACKET FORWARDING DURING HANDOVER PROCEDURES	[redacted]		PCT	APP Closed	WO	PCT/US2017/067985		WO2018/119573	Yes	
1535	SYSTEMS AND METHODS FOR PACKET FORWARDING DURING HANDOVER PROCEDURES	[redacted]		PCT	APP Pending	CN	201780078841.9		110089150	Yes	
1536	SYSTEMS AND METHODS FOR UE TO SWITCH BETWEEN LTE RAT AND NR RAT DURING TRANSITION FROM INACTIVE STATE TO ACTIVE STATE	[redacted]		PCT	APP Closed	WO	PCT/US2017/067978		WO2018/119119	Yes	
1537	APPARATUSES TO SWITCH BETWEEN LTE RAT AND NR RAT DURING TRANSITION FROM INACTIVE STATE TO ACTIVE STATE	[redacted]		PCT	APP Pending	US	16/462542		US-2019-0320483-A1	Yes	
1538	MEASUREMENT OF BEAM REFINEMENT SIGNAL	[redacted]		PCT	APP Closed	WO	PCT/US2017/069081		WO2018/128884		
1539	MEASUREMENT OF BEAM REFINEMENT SIGNAL	[redacted]		PCT	APP Pending	US	16/349857		US-2019-0334613-A1		
1540	USER EQUIPMENT (UE) GENERATION NODE-B (GNB) AND METHODS FOR PHASE TRACKING REFERENCE SIGNAL (PT-RS) PRE CODING	[redacted]		PCT	APP Closed	WO	PCT/US2017/066535		WO2018/125910	Yes	
1541	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1542	SYSTEMS METHODS AND DEVICES FOR CONGESTION CONTROL FOR TRANSPORT OF USER DATA VIA A CONTROL PLANE	[redacted]		PCT	APP Closed	WO	PCT/US2017/068165		WO2018/125995	Yes	
1543	SYSTEMS METHODS AND DEVICES FOR CONGESTION CONTROL FOR TRANSPORT OF USER DATA VIA A CONTROL PLANE	[redacted]		PCT	APP Pending	US	16/349239		US 2020-0196188 A1	Yes	
1544	TRANSMISSION SCHEME FOR COMMON CONTROL MESSAGE WITH MULTI-BEAM OPERATION	[redacted]		PCT	APP Closed	WO	PCT/US2017/067033		WO2018/128786		
1545	TRANSMISSION SCHEME FOR COMMON CONTROL MESSAGE WITH MULTI BEAM OPERATION	[redacted]		PCT	APP Pending	US	16/475765		US-2019-0357208-A1		
1546	LOW OVERHEAD SUBBAND PHYSICAL DOWNLINK CONTROL FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Closed	WO	PCT/US2017/068935		WO2018/128922		
1547	LOW OVERHEAD SUBBAND PHYSICAL DOWNLINK CONTROL FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Pending	US	16/475282		US-2019-0349153-A1		
1548	INTER-NODE INTERFERENCE AVOIDANCE	[redacted]		PCT	APP Closed	WO	PCT/US2017/068114		WO2018/128948		
1549	INTER-NODE INTERFERENCE AVOIDANCE	[redacted]		PCT	APP Pending	US	16/475667				
1550	INSTANTIATION AND MANAGEMENT OF PHYSICAL AND VIRTUALIZED NETWORK FUNCTIONS OF A RADIO ACCESS NETWORK NODE	[redacted]		PCT	APP Closed	WO	PCT/US2017/068435		WO2018/128675	Yes	
1551	INSTANTIATION AND MANAGEMENT OF PHYSICAL AND VIRTUALIZED NETWORK FUNCTIONS OF A RADIO ACCESS NETWORK NODE	[redacted]		PCT	APP Pending	US	16/479621		US-2019-0373621-A1	Yes	
1552	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER IN NEW RADIO (NR) SYSTEMS	[redacted]		PCT	APP Closed	WO	PCT/US2017/068287		WO2018/128862	Yes	
1553	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER IN NEW RADIO (NR) SYSTEMS	[redacted]		PCT	APP Pending	US	16/473235		US-2019-0327653-A1	Yes	
1554	ACCESS CONTROL FOR WIRELESS CELLULAR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Closed	WO	PCT/US2017/068108		WO2018/128947		
1555	ACCESS CONTROL FOR WIRELESS CELLULAR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Pending	US	16/475670		US-2019-0349843-A1		
1556	(UE) UPLINK (UL) BANDWIDTH ADAPTATION AND MULTI-BW PART OPERATION IN NR (NEW RADIO)	[redacted]		PCT	APP Closed	WO	PCT/US2017/068177		WO2018/128855		
1557	(UE) UPLINK (UL) BANDWIDTH ADAPTATION AND MULTI-BW PART OPERATION IN NR (NEW RADIO)	[redacted]		PCT	APP Pending	CN	201780081000.0		110140381		
1558	SYSTEMS METHODS AND DEVICES FOR ALARM NOTIFICATION IN A NETWORK FUNCTION VIRTUALIZATION INFRASTRUCTURE	[redacted]		PCT	APP Closed	WO	PCT/US2017/068580		WO2018/128958	Yes	
1559	SYSTEMS METHODS AND DEVICES FOR ALARM NOTIFICATION IN A NETWORK FUNCTION VIRTUALIZATION INFRASTRUCTURE	[redacted]		PCT	APP Pending	DE	112017006643.8		112017006643	Yes	
1560	MEASUREMENT JOB SUSPENSION AND RESUMPTION IN NETWORK FUNCTION VIRTUALIZATION	[redacted]		PCT	APP Closed	WO	PCT/US2017/067398		WO2018/128804	Yes	
1561	MEASUREMENT JOB SUSPENSION AND RESUMPTION IN NETWORK FUNCTION VIRTUALIZATION	[redacted]		PCT	APP Pending	US	16/465453		US 2020-0196166 A1	Yes	
1562	BEAM ACQUISITION USING A REFERENCE SIGNAL STRUCTURE FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP Closed	WO	PCT/US2017/068931		WO2018/128923		
1563	BEAM ACQUISITION USING A REFERENCE SIGNAL STRUCTURE FOR COMMUNICATION SYSTEMS	[redacted]		EPT	APP Pending	EP	17848768.5		3566537		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1564	UE TESTING SYSTEM FOR RF CHARACTERISTICS FOR THE NEW RADIO STANDARD	[redacted]		PCT	APP-Closed	WO	PCT/US2017/069120		WO2018/128950	Yes	
1565	UE TESTING SYSTEM FOR RF CHARACTERISTICS FOR THE NEW RADIO STANDARD	[redacted]		PCT	APP-Pending	US	16/467102		US 2019-0393968 A1	Yes	
1566	CODEBOOK DESIGN FOR NEW RADIO (NR) SYSTEMS	[redacted]		PCT	APP-Closed	WO	PCT/US2017/068591		WO2018/128895		
1567	CODEBOOK DESIGN FOR NEW RADIO (NR) SYSTEMS	[redacted]		PCT	APP-Pending	US	16/476537		US-2019-0326959-A1		
1568	COVERAGE ENHANCEMENT RESTRICTION FOR CIOT DEVICES	[redacted]		PCT	APP-Closed	WO	PCT/US2018/012796		WO2018/129453	Yes	
1569	COVERAGE ENHANCEMENT RESTRICTION FOR CIOT DEVICES	[redacted]		PCT	APP-Pending	CN	2018800049404		110050475	Yes	
1570	BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM	[redacted]		PCT	APP-Closed	WO	PCT/US2017/069070		WO2018/128938	Yes	
1571	BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM	[redacted]		PCT	APP-Pending	CN	2017800763673		110050433	Yes	
1572	BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM	[redacted]		PCT	APP-Pending	US	16/349251		US-2019-0289668-A1	Yes	
1573	5G RAN1 method of transmission structure of synchronization signals	[redacted]		PCT	APP-Closed	WO	PCT/US2018/012398		WO2018/129196	Yes	
1574	5G RAN1 method of transmission structure of synchronization signals	[redacted]		PCT	APP-Pending	DE	1120180002446		112018000244	Yes	
1575	SYNCHRONIZATION SIGNAL TRANSMISSION TECHNIQUES	[redacted]		PCT	APP-Pending	US	16/349960		US-2019-0319699-A1	Yes	
1576	LOCATION POSITIONING PROTOCOL BASED POSITIONING FOR UES IN IDLE MODE	[redacted]		PCT	APP-Closed	WO	PCT/US2017/069122		WO2018/136224		
1577	LOCATION POSITIONING PROTOCOL BASED POSITIONING FOR UES IN IDLE MODE	[redacted]		PCT	APP-Pending	US	16/477572				
1578	ADVERTISEMENT OF NR CAPABILITY TO USER EQUIPMENT	[redacted]		PCT	APP-Closed	WO	PCT/US2018/013347		WO2018/136298		
1579	ADVERTISEMENT OF NR CAPABILITY TO USER EQUIPMENT	[redacted]		PCT	APP-Pending	US	16/473577		US 2020-0045731 A1		
1580	SYSTEM AND METHOD OF SINGLE RADIO VOICE CALL CONTINUITY HANDOVER REDUCTION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/015526		WO2018/144345	Yes	
1581	SYSTEM AND METHOD OF SINGLE RADIO VOICE CALL CONTINUITY HANDOVER REDUCTION	[redacted]		PCT	APP-Pending	DE	1120180002357		112018000235	Yes	
1582	eLWA/LWIP ACTIONS UPON WLAN DISCONNECT	[redacted]		PCT	APP-Closed	WO	PCT/US2018/015253		WO2018/140608	Yes	
1583	eLWA/LWIP ACTIONS UPON WLAN DISCONNECT	[redacted]		PCT	APP-Pending	DE	1120180001946		112018000194	Yes	
1584	MECHANISMS TO HANDLE DL (DOWNLINK) CONTROL AND DATA CHANNELS WITH DIFFERENT NUMEROLOGIES IN NR (NEW RADIO)	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016661		WO2018/144877		
1585	MECHANISMS TO HANDLE DL (DOWNLINK) CONTROL AND DATA CHANNELS WITH DIFFERENT NUMEROLOGIES IN NR (NEW RADIO)	[redacted]		PCT	APP-Pending	US	16/476127		US-2019-0357198-A1		
1586	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS TO INDICATE PARAMETERS FOR A RELAY ARRANGEMENT	[redacted]		PCT	APP-Closed	WO	PCT/US2018/017057		WO2018/145084		
1587	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS TO INDICATE PARAMETERS FOR A RELAY ARRANGEMENT	[redacted]		EPT	APP-Pending	EP	187471867		3577958		
1588	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS TO INDICATE PARAMETERS FOR A RELAY ARRANGEMENT	[redacted]		PCT	APP-Pending	US	16/479161		US-2019-0350047-A1		
1589	UPLINK TRANSMISSIONS USING PRECODED SOUNDING REFERENCE SIGNALS FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016880		WO2018/145013		
1590	UPLINK TRANSMISSIONS USING PRECODED SOUNDING REFERENCE SIGNALS FOR COMMUNICATION SYSTEMS	[redacted]		EPT	APP-Pending	EP	187069166		3577839		
1591	UPLINK TRANSMISSIONS USING PRECODED SOUNDING REFERENCE SIGNALS FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP-Pending	US	16/473579		US 2020-0153576A1		
1592	DEVICES FOR PER-CC MEASUREMENT GAP CONFIGURATION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016207		WO2018/144584		
1593	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1594	CONTROL SIGNALING FOR BEAM MANAGEMENT	[redacted]		PCT	APP-Closed	WO	PCT/US2018/015726		WO2018/144384		
1595	CONTROL SIGNALING FOR BEAM MANAGEMENT	[redacted]		PCT	APP-Pending	CN	2018800059942		110168955		
1596	CONTROL SIGNALING FOR BEAM MANAGEMENT	[redacted]		EPT	APP-Pending	EP	187057542		3577788		
1597	NETWORK ASSISTED LTE CRS INTERFERENCE MITIGATION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/014837		WO2018/144269		
1598	NETWORK ASSISTED LTE CRS INTERFERENCE MITIGATION	[redacted]		PCT	APP-Pending	US	16/482995		US 2020-0014481 A1		
1599	PROVISIONS FACILITATING BANDWIDTH ADAPTATION TRANSITION AND MEASUREMENT	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016679		WO2018/144892	Yes	
1600	PROVISIONS FACILITATING BANDWIDTH ADAPTATION TRANSITION AND MEASUREMENT	[redacted]		PCT	APP-Pending	DE	1120180002233		112018000223	Yes	
1601	POSITIONING ENHANCEMENTS FOR NARROWBAND INTERNET OF THINGS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016441		WO2018/144722		
1602	POSITIONING ENHANCEMENTS FOR NARROWBAND INTERNET OF THINGS	[redacted]		PCT	APP-Pending	US	16/474149		US-2019-0349881-A1		
1603	DOWNLINK (DL) CONTROL CHANNEL CONFIGURATION AND MONITORING FOR NEW RADIO (NR) ULTRA-RELIABLE LOW LATENCY COMMUNICATION (URLLC)	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016686		WO2018/144899	Yes	
1604	DOWNLINK (DL) CONTROL CHANNEL CONFIGURATION AND MONITORING FOR NEW RADIO (NR) ULTRA-RELIABLE LOW LATENCY COMMUNICATION (URLLC)	[redacted]		PCT	APP-Pending	DE	1120180002373		112018000237	Yes	
1605	POWER HEADROOM REPORTING FOR SHORTENED TRANSMISSION TIME INTERVALS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016306		WO2018/144643	Yes	
1606	POWER HEADROOM REPORTING FOR SHORTENED TRANSMISSION TIME INTERVALS	[redacted]		PCT	APP-Pending	US	16/476375		US 2020-0084651 A1	Yes	
1607	NETWORK RESOURCE MODEL TO SUPPORT NEXT GENERATION NODE E	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016818		WO2018/144983	Yes	
1608	NETWORK RESOURCE MODEL TO SUPPORT NEXT GENERATION NODE E	[redacted]		EPT	APP-Pending	EP	187079967		3577857		
1609	NETWORK RESOURCE MODEL TO SUPPORT NEXT GENERATION NODE E	[redacted]		PCT	APP-Pending	US	16/476028		US-2019-0357084-A1	Yes	
1610	ALLOCATION OF UPLINK RESOURCES BASED ON USER EQUIPMENT POWER CLASSES	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016728		WO2018/144936	Yes	
1611	ALLOCATION OF UPLINK RESOURCES BASED ON USER EQUIPMENT POWER CLASSES	[redacted]		PCT	APP-Pending	DE	1120180002349		112018000234	Yes	
1612	SYSTEMS METHODS AND APPARATUSES FOR DIAMETER BASED INTERFACES TO ENABLE RESTRICTIONS OF COVERAGE ENHANCEMENT IN WIRELESS NETWORKS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016389		WO2018/144697	Yes	
1613	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1614	WIDEBAND MEASUREMENTS IN NEW RADIO SYSTEMS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016345		WO2018/144670	Yes	
1615	WIDEBAND MEASUREMENTS IN NEW RADIO SYSTEMS	[redacted]		PCT	APP-Pending	DE	1120180002187		112018000218	Yes	
1616	NETWORK CONTROLLED SMALL GAP CONFIGURATION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016719		WO2018/144927	Yes	
1617	NETWORK CONTROLLED SMALL GAP CONFIGURATION	[redacted]		PCT	APP-Pending	US	16/476381			Yes	
1618	DOWNLINK CONTROL SIGNALING SEGMENTATION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016302		WO2018/144641		
1619	DOWNLINK CONTROL SIGNALING SEGMENTATION	[redacted]		EPT	APP-Pending	EP	187052915		3577986		
1620	DOWNLINK CONTROL SIGNALING SEGMENTATION	[redacted]		PCT	APP-Pending	US	16/476657				
1621	RSRP METRIC FOR NEW RADIO STANDARD	[redacted]		PCT	APP-Closed	WO	PCT/US2018/016521		WO2018/144781	Yes	
1622	RSRP METRIC FOR NEW RADIO STANDARD	[redacted]		PCT	APP-Pending	DE	1120180003191		112018000319	Yes	
1623	RELIABLE UPLINK TRANSMISSION WITHOUT GRANT IN NR URLLC	[redacted]		PCT	APP-Closed	WO	PCT/US2018/015894		WO2018/144433	Yes	
1624	RELIABLE UPLINK TRANSMISSION WITHOUT GRANT IN NR URLLC	[redacted]		PCT	APP-Pending	CN	2018800060051		110168999	Yes	
1625	RELIABLE UPLINK TRANSMISSION WITHOUT GRANT IN NR URLLC	[redacted]		PCT	APP-Pending	DE	1120180002136		112018000213	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1626	RETRANSMISSION MECHANISMS FOR CBG-BASED HARQ OPERATIONS			PCT	APP-Closed	WO	PCT/US2018/017032		WO2018/145078	Yes	
1627											
1628	RETRANSMISSION MECHANISMS FOR CBG-BASED HARQ OPERATIONS			EPT	APP-Pending	EP	187482591		3577822		
1629	QUALITY OF SERVICE FLOW TO DATA RADIO BEARER MAPPING OVERRIDE BIT			PCT	APP-Closed	WO	PCT/US2018/016635		WO2018/144855		
1630	QUALITY OF SERVICE FLOW TO DATA RADIO BEARER MAPPING OVERRIDE BIT			PCT	APP-Pending	US	16/475851		US-2019-0357086-A1		
1631	Determining Timing Differences Between Primary and Secondary Component Carriers Having Variable Transmission Time Intervals			PCT	APP-Closed	WO	PCT/US2018/017055		WO2018/145083		
1632	Determining Timing Differences Between Primary and Secondary Component Carriers Having Variable Transmission Time Intervals			EPT	APP-Pending	EP	187058037		3577957		
1633											
1634	RADIO RESOURCE CONTROL (RRC) LIGHT CONNECTION			PCT	APP-Closed	WO	PCT/US2018/015037		WO2018/144281	Yes	
1635	RADIO RESOURCE CONTROL (RRC) LIGHT CONNECTION			EPT	APP-Pending	EP	187068853		3578002	Yes	
1636	Partial Sensing and Congestion Control for Long Term Evolution (LTE) Vehicular Communication			PCT	APP-Closed	WO	PCT/US2018/017000		WO2018/145067		
1637	Partial Sensing and Congestion Control for Long Term Evolution (LTE) Vehicular Communication			EPT	APP-Pending	EP	187069208		3577967		
1638	Partial Sensing and Congestion Control for Long Term Evolution (LTE) Vehicular Communication			PCT	APP-Pending	US	16/476128		US 2020-0029245 A1		
1639	SYSTEMS METHODS AND DEVICES FOR VIRTUAL RESOURCE METRIC MANAGEMENT			PCT	APP-Closed	WO	PCT/US2018/016806		WO2018/148135		
1640	SYSTEMS METHODS AND DEVICES FOR VIRTUAL RESOURCE METRIC MANAGEMENT			EPT	APP-Pending	EP	187069141		3580894		
1641	SYSTEMS METHODS AND DEVICES FOR VIRTUAL RESOURCE METRIC MANAGEMENT			PCT	APP-Pending	US	16/476011		US-2019-0349272-A1		
1642	MANAGEMENT OF VOICE SERVICES FOR USER EQUIPMENTS IN COVERAGE ENHANCEMENT (CE) MODE B			PCT	APP-Closed	WO	PCT/US2018/016285		WO2018/148083	Yes	
1643											
1644	MANAGEMENT OF VOICE SERVICES FOR USER EQUIPMENTS IN COVERAGE ENHANCEMENT (CE) MODE B			PCT	APP-Pending	US	16/349587		US-2019-0273762-A1	Yes	
1645	SYSTEM INFORMATION DECODING IN WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2018/018317		WO2018/152297		
1646											
1647	SYSTEM INFORMATION DECODING IN WIRELESS NETWORKS			PCT	APP-Pending	US	16/477497				
1648	PHASE TRACKING REFERENCE SIGNAL INDICATIOIN IN MULTI-USER SUPERPOSITION TRANSMISSION			PCT	APP-Closed	WO	PCT/US2018/000092		WO2018/164761		
1649											
1650											
1651	PHASE TRACKING REFERENCE SIGNAL INDICATION IN MULTI-USER SUPERPOSITION TRANSMISSION			PCT	APP-Pending	US	16/478813		US 2019-0379481 A1		
1652	REPORTING A NUMBER OF EFFECTIVE FREQUENCIES FOR RADIO RESOURCE MANNAGEMENT PURPOSES			PCT	APP-Closed	WO	PCT/US2018/017828		WO2018/148662		
1653											
1654	REPORTING A NUMBER OF EFFECTIVE FREQUENCIES FOR RADIO RESOURCE MANAGEMENT PURPOSES			PCT	APP-Pending	US	16/473663		US-2019-0357068-A1		
1655	APPARATUSES AND METHODS FOR WIRELESS COMMUNICATION			PCT	APP-Pending	WO	PCT/US2017/063168		WO2019/103746		
1656	SYSTEMS METHODS AND APPARATUSES FOR MANAGING MULTIPLE ANCHORS FOR MULTI-HOMING			PCT	APP-Closed	WO	PCT/US2018/019658		WO2018/157030	Yes	
1657	SYSTEMS METHODS AND APPARATUSES FOR MANAGING MULTIPLE ANCHORS FOR MULTI-HOMING			PCT	APP-Pending	CN	2018800141504		110337836		
1658	SYSTEMS METHODS AND APPARATUSES FOR MANAGING MULTIPLE ANCHORS FOR MULTI-HOMING			PCT	APP-Pending	DE	1120180003043		112018000304	Yes	
1659	SYSTEMS METHODS AND APPARATUSES FOR MANAGING MULTIPLE ANCHORS FOR MULTI-HOMING			PCT	APP-Pending	US	16/487706		US 2020-0015137 A1		
1660	DEVICES AND METHODS FOR DYNAMIC RACH			PCT	APP-Closed	WO	PCT/US2018/022705		WO2018/170300	Yes	
1661											
1662											
1663	DEVICES AND METHODS FOR DYNAMIC RACH			PCT	APP-Pending	US	16/487390		US 2020-0029359 A1		
1664	SYSTEMS METHODS AND APPARATUSES FOR CONFIGURING MEASUREMENT GAP PER FREQUENCY GROUP AND PER CELL			PCT	APP-Closed	WO	PCT/US2018/021926		WO2018/169829	Yes	
1665	SYSTEMS METHODS AND APPARATUSES FOR CONFIGURING MEASUREMENT GAP PER FREQUENCY GROUP AND PER CELL			PCT	APP-Pending	CN	2018800167839		110419241	Yes	
1666	SYSTEMS METHODS AND APPARATUSES FOR CONFIGURING MEASUREMENT GAP PER FREQUENCY GROUP AND PER CELL			PCT	APP-Pending	DE	1120180002179		112018000217	Yes	
1667	SYSTEMS METHODS AND APPARATUSES FOR CONFIGURING MEASUREMENT GAP PER FREQUENCY GROUP AND PER CELL			PCT	APP-Pending	US	16/487688		US 2020-0236572 A1		
1668	High Speed train in New Radio (NR)			PCT	APP-Closed	WO	PCT/US2018/020898		WO2018/161073		
1669	High Speed train in New Radio (NR)			PCT	APP-Pending	CN	2018800155390		110383892		
1670											
1671	High Speed train in New Radio (NR)			PCT	APP-Pending	US	16/483181		US 2020-0236605 A1		
1672	MulteFire RAN1method and apparaturs for cross retransmission between GUL and SUL			PCT	APP-Closed	WO	PCT/CN2018/078537		WO2018/161951		
1673	MulteFire RAN1method and apparaturs for cross retransmission between GUL and SUL			PCT	APP-Pending	CN	2018800165049		110419257		
1674											
1675	METHOD AND APPARATUS FOR CROSS RETRANSMISSION BETWEEN GUL AND SUL			PCT	APP-Pending	US	16/483388		US 2020-0014495 A1		
1676	EXPIRATION HANDLING OF TWO-STAGE GRANT VALIDITY DURATION			PCT	APP-Closed	WO	PCT/US2018/023865		WO2018/175795		
1677	EXPIRATION HANDLING OF TWO-STAGE GRANT VALIDITY DURATION			PCT	APP-Pending	CN	2018800138107		110326248		
1678											
1679	EXPIRATION HANDLING OF TWO-STAGE GRANT VALIDITY DURATION			PCT	APP-Pending	US	16/487788		US 2020-0052856 A1		
1680	TECHNOLOGY COORDINATION FOR DEVICE-TO-DEVICE DISCOVERY			PCT	APP-Closed	WO	PCT/US2018/021745		WO2018/165548		
1681											
1682											
1683	TECHNOLOGY COORDINATION FOR DEVICE-TO-DEVICE DISCOVERY			PCT	APP-Pending	US	16/474036		US 2019-0394631 A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1684	SYSTEMS METHODS AND DEVICES FOR MEASUREMENT CONFIGURATION BY A SECONDARY NODE IN EN-DC	[redacted]		PCT	APP-Closed	WO	PCT/US2018/023401		WO2018/175470		
1685	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1686	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1687	SYSTEMS METHODS AND DEVICES FOR MEASUREMENT CONFIGURATION BY A SECONDARY NODE IN EN-DC	[redacted]		PCT	APP-Pending	US	16/479487		US 2019-0387424 A1		
1688	RE-TRANSMISSION OF PDCP PDUS BY CENTRALIZED NODES OF A RAN ARCHITECTURE	[redacted]		PCT	APP-Closed	WO	PCT/US2018/022827		WO2018/170377	Yes	
1689	RE-TRANSMISSION OF PDCP PDUS BY CENTRALIZED NODES OF A RAN ARCHITECTURE	[redacted]		PCT	APP-Pending	CN	2018800187832		110419262		
1690	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1691	RE-TRANSMISSION OF PDCP PDUS BY CENTRALIZED NODES OF A RAN ARCHITECTURE	[redacted]		PCT	APP-Pending	US	16/487173		US 2020-0329390 A1		
1692	METHODS AND SYSTEMS FOR INSTANTIATING AND CONNECTING RADIO ACCESS NETWORK VIRTUALIZED NETWORK FUNCTION AND CORE NETWORK VIRTUALIZED NETWORK FUNCTION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/022055		WO2018/169883	Yes	
1693	METHODS AND SYSTEMS FOR INSTANTIATING AND CONNECTING RADIO ACCESS NETWORK VIRTUALIZED NETWORK FUNCTION AND CORE NETWORK VIRTUALIZED NETWORK FUNCTION	[redacted]		PCT	APP-Pending	CN	201880018041X		110447205		
1694	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1695	METHODS AND SYSTEMS FOR INSTANTIATING AND CONNECTING RADIO ACCESS NETWORK VIRTUALIZED NETWORK FUNCTION AND CORE NETWORK VIRTUALIZED NETWORK FUNCTION	[redacted]		PCT	APP-Pending	US	16/484790		US 2019-0363953 A1	Yes	
1696	INSTANTIATION OF A VIRTUAL NETWORK FUNCTION (VNF) AS PART OF A GNODEB (GNB)	[redacted]		PCT	APP-Closed	WO	PCT/US2018/022057		WO2018/169884		
1697	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1698	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1699	INSTANTIATION OF A VIRTUAL NETWORK FUNCTION (VNF) AS PART OF A GNODEB (GNB)	[redacted]		PCT	APP-Pending	US	16/484422		US 2020-0034165 A1		
1700	SUPPORTING SON FUNCTIONS ON NETWORK SLICE INSTANCES	[redacted]		PCT	APP-Closed	WO	PCT/US2018/022445		WO2018/170135	Yes	
1701	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1702	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1703	SUPPORTING SON FUNCTIONS ON NETWORK SLICE INSTANCES	[redacted]		PCT	APP-Pending	US	16/485088		US 2019-0386878 A1	Yes	
1704	MULTEFIRE ARCHITECTURE FOR CELLULAR INTERNET-OF-THINGS (CIOT)	[redacted]		PCT	APP-Pending	WO	PCT/US2018/027513		WO2018/200218		
1705	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1706	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1707	MULTEFIRE ARCHITECTURE FOR CELLULAR INTERNET-OF-THINGS (CIOT)	[redacted]		PCT	APP-Pending	US	16/499016		US 2020-0120475 A1		
1708	TIMING DETERMINATION TECHNIQUES FOR 5G RADIO ACCESS NETWORK CELLS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/023882		WO2018/175805		
1709	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1710	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1711	TIMING DETERMINATION TECHNIQUES FOR 5G RADIO ACCESS NETWORK CELLS	[redacted]		PCT	APP-Pending	US	16/488133		US 2020-0008233 A1		
1712	HANDLING OF USER EQUIPMENT COVERAGE ENHANCEMENT MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN USER EQUIPMENT USAGE SETTING	[redacted]		PCT	APP-Closed	WO	PCT/US2018/015869		WO2018/174995	Yes	
1713	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]			[redacted]	
1714	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1715	HANDLING OF USER EQUIPMENT COVERAGE ENHANCEMENT MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN USER EQUIPMENT USAGE SETTING	[redacted]		PCT	APP-Pending	US	16/462339			Yes	
1716	Robust Ultrasound Communication Signal Format	[redacted]		PCT	APP-Pending	WO	PCT/US2018/036748		WO2018/231652		
1717	[redacted]	[redacted]			[redacted]	[redacted]					
1718	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1719	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
1720	DEVICE AND METHOD TO ALLOW CROSS-TRANSMISSION TIME INTERVAL (TTI) SWITCHING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) OPERATION IN A NEW RADIO NETWORK	[redacted]		PCT	APP-Closed	WO	PCT/US2018/023895		WO2018/175815		
1721	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1722	DEVICE AND METHOD TO ALLOW CROSS-TRANSMISSION TIME INTERVAL (TTI) SWITCHING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) OPERATION IN A NEW RADIO NETWORK	[redacted]		PCT	APP-Pending	DE	1120180004708		112018000470		
1723	DEVICE AND METHOD TO ALLOW CROSS-TRANSMISSION TIME INTERVAL (TTI) SWITCHING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) OPERATION IN A NEW RADIO NETWORK	[redacted]		PCT	APP-Pending	US	16/476528		US-2019-0356426-A1		
1724	FLEXIBLE BLOCK SIZE SUPPORT FOR POLAR CODE	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024202		WO2018/176003	Yes	
1725	FLEXIBLE BLOCK SIZE SUPPORT FOR POLAR CODE	[redacted]		PCT	APP-Pending	CN	201880019107 7		110431752		
1726	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1727	FLEXIBLE BLOCK SIZE SUPPORT FOR POLAR CODE	[redacted]		PCT	APP-Pending	US	16/488561				
1728	TRACKING REFERENCE SIGNALS FOR NEW RADIO	[redacted]		PCT	APP-Closed	WO	PCT/US2018/023890		WO2018/175813		
1729	TRACKING REFERENCE SIGNALS FOR NEW RADIO	[redacted]		PCT	APP-Pending	CN	2018800200964		110447286		
1730	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1731	TRACKING REFERENCE SIGNALS FOR NEW RADIO	[redacted]		PCT	APP-Pending	US	16/473563		US 2020-0146097 A1		
1732	SUPPORT OF 64 QAM FOR EFEMTC PDSCH TRANSMISSION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024038		WO2018/175896		
1733	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]				
1734	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1735	SUPPORT OF 64 QAM FOR EFEMTC PDSCH TRANSMISSION	[redacted]		PCT	APP-Pending	US	16/465998		US 2020-0163156 A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1736	DOWNLINK CONTROL INFORMATION TO SUPPORT UPLINK PARTIAL SUBFRAME TRANSMISSION ON LICENSED ASSISTED ACCESS SECONDARY CELL	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024142		WO2018/175964		
1737	[redacted]										
1738	[redacted]										
1739	DOWNLINK CONTROL INFORMATION TO SUPPORT UPLINK PARTIAL SUBFRAME TRANSMISSION ON LICENSED ASSISTED ACCESS SECONDARY CELL	[redacted]		PCT	APP-Pending	US	16/488187		US 2020-0022219-A1		
1740	RADIO LINK MONITORING BEAM RECOVERY AND RADIO LINK FAILURE HANDLING	[redacted]		PCT	APP-Closed	WO	PCT/US2018/025579		WO2018/175593	Yes	
1741	[redacted]										
1742	RADIO LINK MONITORING BEAM RECOVERY AND RADIO LINK FAILURE HANDLING	[redacted]		PCT	APP-Pending	DE	112018000246		112018000246	Yes	
1743	RADIO LINK MONITORING BEAM RECOVERY AND RADIO LINK FAILURE HANDLING	[redacted]		PCT	APP-Pending	US	16/887665		US 2020-0367589-A1		
1744	5G RAN4 one RRM interuption requirements for the wider bandwidth in NR	[redacted]		PCT	APP-Closed	WO	PCT/CN2018/080252		WO2018/171730		
1745	[redacted]										
1746	METHODS AND ARRANGEMENTS FOR WIDE BANDWIDTH COMMUNICATIONS	[redacted]		PCT	APP-Pending	US	16/464927		US 2020-0014523-A1		
1747	SYSTEMS METHODS AND DEVICES FOR SELECTING CELLULAR TIMING CONFIGURATIONS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/022408		WO2018/175176	Yes	
1748	[redacted]										
1749	[redacted]										
1750	SYSTEMS METHODS AND DEVICES FOR SELECTING CELLULAR TIMING CONFIGURATIONS	[redacted]		PCT	APP-Pending	US	16/880272		US 2019-0384741-A1	Yes	
1751	SYSTEM AND METHOD FOR BEAM MANAGEMENT PROCEDURE CONFIGURATION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/025629		WO2018/183895	Yes	
1752	[redacted]										
1753	SYSTEM AND METHOD FOR BEAM MANAGEMENT PROCEDURE CONFIGURATION	[redacted]		PCT	APP-Pending	US	16/496805		US 2020-0228180-A1	Yes	
1754	COMMON PHYSICAL DOWNLINK CONTROL CHANNEL (cPDCCH) DESIGN FOR MULTEFIRE WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEMS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/025750		WO2018/184024		
1755	[redacted]										
1756	COMMON PHYSICAL DOWNLINK CONTROL CHANNEL (cPDCCH) DESIGN FOR MULTEFIRE WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEMS	[redacted]		PCT	APP-Pending	US	16/493338		US 2019-0379492-A1		
1757	AUTONOMOUS HANDOVER FOR WIRELESS NETWORKS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/025244		WO2018/183740		
1758	[redacted]										
1759	[redacted]										
1760	[redacted]										
1761	MECHANISMS FOR HANDLING UPLINK GRANTS INDICATING DIFFERENT PHYSICAL UPLINK SHARED CHANNEL STARTING POSITIONS IN A SAME SUBFRAME	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024748		WO2018/183436		
1762	[redacted]										
1763	[redacted]										
1764	MECHANISMS FOR HANDLING UPLINK GRANTS INDICATING DIFFERENT PHYSICAL UPLINK SHARED CHANNEL STARTING POSITIONS IN A SAME SUBFRAME	[redacted]		PCT	APP-Pending	US	16/490356		US 2019-0394792-A1		
1765	UE CAPABILITY INDICATION TO POSITIONING SERVER	[redacted]		PCT	APP-Pending	WO	PCT/US2018/025711		WO2018/187223	Yes	
1766	[redacted]										
1767	UE CAPABILITY INDICATION TO POSITIONING SERVER	[redacted]		PCT	APP-Pending	DE	112018000219		112018000219	Yes	
1768	UE CAPABILITY INDICATION TO POSITIONING SERVER	[redacted]		PCT	APP-Pending	US	16/487406		US 2020-0059888-A1		
1769	5G RAN1 System and Method for numerology configuration in Non-Coherent Joint Transmission	[redacted]		PCT	APP-Pending	WO	PCT/CN2018/083870		WO2018/192586		
1770	[redacted]										
1771	[redacted]										
1772	METHOD AND APPARATUS FOR NUMEROLOGY CONFIGURATION IN NON-COHERENT JOINT TRANSMISSION	[redacted]		PCT	APP-Pending	US	16/483353		US 2020-0015203-A1		
1773	IMPROVED HANDLING OF TIMER EXPIRY FOR MT CSFB	[redacted]		PCT	APP-Pending	WO	PCT/US2018/039800		WO2019/005995	Yes	
1774	[redacted]										
1775	[redacted]										
1776	IMPROVED HANDLING OF TIMER EXPIRY FOR MT CSFB	[redacted]		PCT	APP-Pending	US	16/489272		US 2020-0008269-A1	Yes	
1777	5G RAN1 A Method for Interference Measurement Using Beam Management Reference Signal	[redacted]		PCT	APP-Pending	WO	PCT/CN2018/085318		WO2018/202086	Yes	
1778	[redacted]										
1779	[redacted]										
1780	METHOD AND APPARATUS FOR INTERFERENCE MEASUREMENT USING BEAM MANAGEMENT REFERENCE SIGNAL	[redacted]		PCT	APP-Pending	US	16/484040		US 2020-0021337-A1	Yes	
1781	NETWORK FUNCTION VIRTUALIZATION INFRASTRUCTURE PERFORMANCE	P118358	D147517-PCT	PCT	APP-Pending	WO	PCT/US2018/028911		WO2018/200397		
1782	[redacted]										
1783	[redacted]										
1784	NETWORK FUNCTION VIRTUALIZATION INFRASTRUCTURE PERFORMANCE	[redacted]		PCT	APP-Pending	US	16/499847		US 2020-0104158-A1		
1785	Ping-Pong Beam Training Method for Multi-User MIMO Systems with Hybrid Digital-Analog Antenna Arrays	[redacted]		EPA	APP-Pending	EP	172052029		3493419		
1786	TECHNIQUES FOR BEAMFORMING IN MULTI-USER SYSTEMS	[redacted]		PCT	APP-Pending	WO	PCT/US2018/054809		WO2019/132688		
1787	CENTRALIZED UNIT AND DISTRIBUTED UNIT CONNECTION IN A VIRTUALIZED RADIO ACCESS NETWORK	[redacted]		PCT	APP-Pending	WO	PCT/US2018/029260		WO2018/200670		

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1788	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1789	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1790	CENTRALIZED UNIT AND DISTRIBUTED UNIT CONNECTION IN A VIRTUALIZED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	US	16/499861		US 2020-0104154 A1		
1791	ENHANCED NETWORK SLICE MANAGEMENT FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/029452		WO2018/200733		
1792	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1793	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1794	ENHANCED NETWORK SLICE MANAGEMENT FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/499857		US 2020-0112861 A1		
1795	METHODS AND ARRANGEMENTS TO SIGNAL FOR AERIAL VEHICLES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031135		WO2018/204816		
1796	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1797	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1798	METHODS AND ARRANGEMENTS TO SIGNAL FOR AERIAL VEHICLES	[redacted]	[redacted]	PCT	APP-Pending	US	16/500889		US 2020-0033849 A1		
1799	UNIFYING SPLIT BEARERS IN LTE INTERWORKING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/031272		WO2018/204899	Yes	
1800	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1801	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1802	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1803	ABSOLUTE POWER CONTROL TOLERANCE FOR NB-IOT/MTC	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/030930		WO2018/204678		
1804	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1805	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1806	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1807	MEASUREMENT CONFIGURATION TECHNIQUES FOR WIDEBAND COVERAGE ENHANCEMENT (WCE)-CAPABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/032171		WO2018/209157		
1808	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1809	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1810	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1811	5G RAN1 System and method for beam and radio link monitor	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/CN2018/086838		WO2018/210226	Yes	
1812	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1813	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1814	METHOD AND APPARATUS FOR RADIO LINK MONITORING	[redacted]	[redacted]	PCT	APP-Pending	US	16/483982		US 2020-0021372 A1	Yes	
1815	MEASUREMENT DESIGN FOR NEXT RADIO (NR) AND LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/032338		WO2018/209247		
1816	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1817	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1818	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1819	PER UE NETWORK CONTROLLED SMALL GAP (NCSG) SIGNALLING	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/032898		WO2018/213396	Yes	
1820	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1821	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1822	PER UE NETWORK CONTROLLED SMALL GAP (NCSG) SIGNALLING	[redacted]	[redacted]	PCT	APP-Pending	US	16/613541		US 2020-0084677 A1		
1823	SYSTEMS METHODS AND DEVICES FOR SELECTING A PUBLIC LAND MOBILE NETWORK USING COVERAGE ENHANCEMENT INDICATORS	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/034644		WO2018/218145		
1824	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1825	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1826	SYSTEMS METHODS AND DEVICES FOR SELECTING A PUBLIC LAND MOBILE NETWORK USING COVERAGE ENHANCEMENT INDICATORS	[redacted]	[redacted]	PCT	APP-Pending	US	16/489178		US 2019-0394719 A1		
1827	BEAMFORMED MEASUREMENT FOR NEW RADIO (NR)	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/035484		WO2018/222931	Yes	
1828	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1829	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1830	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1831	MULTIRADIO INTERFACE FOR SOFTWARE RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/042520		WO2019/018418	Yes	
1832	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1833	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1834	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			Yes	
1835	SYSTEMS METHODS AND DEVICES FOR LEGACY SYSTEM FALLBACK IN A CELLULAR COMMUNICATIONS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037084		WO2018/231813	Yes	
1836	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1837	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1838	SYSTEMS METHODS AND DEVICES FOR LEGACY SYSTEM FALLBACK IN A CELLULAR COMMUNICATIONS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/489279		US 2020-0015128 A1	Yes	
1839	Handling Multiple SR Configurations and Corresponding UL Grants	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037859		WO2018/232307		
1840	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1841	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1842	Handling Multiple SR Configurations and Corresponding UL Grants	[redacted]	[redacted]	PCT	APP-Pending	US	16/478905		US 2019-0387578 A1		
1843	PHYSICAL RESOURCE BLOCK INDEXING FOR COEXISTENCE OF NARROW BAND CARRIER AGGREGATION AND WIDE BAND USER EQUIPMENT IN NEW RADIO	[redacted]	[redacted]	PCT	APP-Pending	WO	PCT/US2018/037734		WO2018/232228	Yes	
1844	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1845	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
1846	PHYSICAL RESOURCE BLOCK INDEXING FOR COEXISTENCE OF NARROW BAND CARRIER AGGREGATION AND WIDE BAND USER EQUIPMENT IN NEW RADIO	[redacted]	[redacted]	PCT	APP-Pending	US	16/349584		US-2019-0280843-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1847	SEPARATION OF CONTROL PLANE AND USER PLANE IN NEW RADIO (NR) SYSTEMS	[redacted]		PCT	APP-Pending	WO	PCT/US2018/038284		WO2018/236867	Yes	
1848	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1849	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]				[redacted]	
1850	APPARATUS OF GNB TO ENABLE AN INACTIVE MODE IN DUAL CONNECTIVITY	[redacted]		PCT	APP-Pending	WO	PCT/US2018/037551		WO2018/232124	Yes	
1851	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
1852	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1853	APPARATUS OF GNB TO ENABLE AN INACTIVE MODE IN DUAL CONNECTIVITY	[redacted]		PCT	APP-Pending	US	16/475056		US 2019-0387568 A1	Yes	
1854	Access Control for User Equipment with Coverage Enhancement Level Support	[redacted]		PCT	APP-Pending	WO	PCT/US2018/039042		WO2018/237289	Yes	
1855	Access Control for User Equipment with Coverage Enhancement Level Support	[redacted]		PCT	APP-Pending	CN	2018800174902		110419244	Yes	
1856	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1857	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1858	MULTEFIRE ARCHITECTURE SUPPORTING ACCESS CLASSES AND BARRING	[redacted]		PCT	APP-Pending	WO	PCT/US2018/027536		WO2018/236458		
1859	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
1860	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1861	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
1862	DEVICES AND METHODS FOR UE-SPECIFIC RAN-CN ASSOCIATIONS	[redacted]		PCT	APP-Pending	WO	PCT/US2018/037108		WO2018/236624		
1863	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1864	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1865	DEVICES AND METHODS FOR UE-SPECIFIC RAN-CN ASSOCIATIONS	[redacted]		PCT	APP-Pending	US	16/615054		US 2020-0169565 A1		
1866	METHOD AND APPARATUS FOR DIGITAL ENVELOPE TRACKING WITH DYNAMICALLY CHANGING VOLTAGE LEVELS FOR POWER AMPLIFIER	[redacted]		PCT	APP-Pending	WO	PCT/US2017/066556		WO2019/117933		
1867	ANTENNA BEAMWIDTH CONTROL	[redacted]		NP	APP-Pending	US	15/942026		US-2019-0305422-A1		
1868	Improved GNSS L1/E1 cross-correlation immunity in presence of L5/E5A/E5B signals	[redacted]		EPA	APP-Pending	EP	172027922		3486687		
1869	GNSS DEVICE WITH IMPROVED CROSS-CORRELATION IMMUNITY	[redacted]		PCT	APP-Pending	WO	PCT/US2018/054818		WO2019/103795		
1870	HANDOVER FOR UNMANNED AERIAL VEHICLES	[redacted]		NP	APP-Pending	US	16/057079		US-2019-0045406-A1	Yes	
1871	SCRAMBLING OF PHYSICAL BROADCAST CHANNEL (PBCH)	[redacted]		PCT	APP-Pending	WO	PCT/US2018/043831		WO2019/023423	Yes	
1872	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
1873	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1874	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]				[redacted]	
1875	METHODS AND ARRANGEMENTS FOR MEASUREMENT GAP CONFIGURATION	[redacted]		PCT	APP-Pending	WO	PCT/US2018/046351		WO2019/033058	Yes	
1876	METHOD FOR ESTIMATING CRYSTAL COEFFICIENT VALUES FOR A SIGNAL GENERATOR	[redacted]		NP	PAT-Active	US	09/867571	6636121	US-2002-0180535-A1		
1877	WIRELESS LINK CONTROL AND RECOVERY USING POSITIONAL DATA	[redacted]		NP	PAT-Active	US	15/279499	10432276	US-2018-0091202-A1		
1878	WIRELESS LINK CONTROL AND RECOVERY USING POSITIONAL DATA	[redacted]		CNT	APP-Pending	US	16/542310		US 2020-0044710 A1		
1879	DEVICES AND METHODS FOR BAND PAUSE TESTING	[redacted]		EPT	APP-Pending	EP	178106753		3466147	Yes	
1880	SERVICES PROVISIONING FOR INTERNET-OF-THINGS DEVICES IN CELLULAR NETWORKS	[redacted]		EPT	APP-Pending	EP	178140943		3473027	Yes	
1881	SCHEDULING REQUEST TRANSMISSIONS IN THE UNLICENSED SPECTRUM	[redacted]		PCT	APP-Pending	US	16/092651		US-2019-0132860-A1		
1882	INTERFERENCE AWARE BEAM SELECTION FOR NR (NEW RADIO)	[redacted]		PCT	APP-Pending	US	16/305986		US-2019-0305838-A1	Yes	
1883	CHANNEL STATE AND BEAM RELATED INFORMATION REPORTING	[redacted]		PCT	APP-Pending	US	16/309856		US-2019-0173622-A1	Yes	
1884	END-TO-END TECHNIQUES TO COLLECT PM (PERFORMANCE MEASUREMENT) DATA FROM A NVF (NETWORK FUNCTION VIRTUALIZATION) INFRASTRUCTURE	[redacted]		EPT	APP-Pending	EP	177118544		3472975		
1885	END-TO-END TECHNIQUES TO CREATE PM (PERFORMANCE MEASUREMENT) THRESHOLDS AT NFV (NETWORK FUNCTION VIRTUALIZATION) INFRASTRUCTURE	[redacted]		PCT	APP-Pending	US	16/303298		US-2019-0215235-A1		
1886	APPARATUSES FOR COMBINING AND DECODING ENCODED BLOCKS	[redacted]		PCT	APP-Pending	CN	2016800859031		109155705		
1887	APPARATUSES FOR COMBINING AND DECODING ENCODED BLOCKS	[redacted]		FPR	APP-Closed	HK					
1888	UPLINK SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION IN CARRIER AGGREGATION SYSTEM	[redacted]		PCT	APP-Pending	CN	2017800383617		109417454	Yes	
1889	UPLINK SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION IN CARRIER AGGREGATION SYSTEM	[redacted]		EPT	APP-Pending	EP	177376696		3476074	Yes	
1890	UPLINK SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION IN CARRIER AGGREGATION SYSTEM	[redacted]		PCT	APP-Pending	US	16/303759			Yes	
1891	DEVICE AND METHOD FOR NFV LIFE CYCLE MANAGEMENT	[redacted]		PCT	APP-Pending	CN	2016800869279		109314649		
1892	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
1893	DEVICE AND METHOD FOR NFV LIFE CYCLE MANAGEMENT	[redacted]		EPT	APP-Pending	EP	169064938		3476080		
1894	SYSTEMS METHODS AND DEVICES FOR CONTROL-USER PLANE SEPARATION FOR 5G RADIO ACCESS NETWORKS	[redacted]		EPT	APP-Pending	EP	177368214		3482602	Yes	
1895	EARLY ACKNOWLEDGEMENT FEEDBACK FOR 5G GROUPED TRANSMISSIONS	[redacted]		PCT	APP-Pending	CN	2017800335492		109314620	Yes	
1896	BEAMFORMING FOR DYNAMIC CELL SWITCHING	[redacted]		PCT	APP-Pending	WO	PCT/CN2017/097237		WO2018/028700	Yes	
1897	OPTIMIZED PAGING MECHANISM FOR IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]		EPT	APP-Pending	EP	177379567		3479630	Yes	
1898	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	[redacted]		PCT	APP-Pending	CN	2017800402961		109417728	Yes	
1899	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	[redacted]		EPT	APP-Pending	EP	177379807		3479619	Yes	
1900	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	[redacted]		PCT	APP-Pending	US	16/093912		US-2019-0110241-A1	Yes	
1901	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	[redacted]		CNT	APP-Pending	US	16/407004		US-2019-0274088-A1	Yes	
1902	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		PCT	APP-Pending	CN	2016800560585		108029146		
1903	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		FPR	APP-Pending	HK	181137291		1254718		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1904	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		EPT	PAT-Active	EP	16781613.1	3369283	3369283		
1905	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		EPT	PAT-Active	DE	16781613.1	3369283	3369283		
1906	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		EPT	PAT-Active	NL	16781613.1	3369283	3369283		
1907	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]		PCT	APP-Pending	US	15/766556		US-2018-0288805-A1		
1908	LOW LATENCY PRACH DESIGN IN UNLICENSED SPECTRUM	[redacted]		PCT	APP-Pending	CN	201680081368.7		108781463	Yes	
1909	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1910	ENHANCED REPORTING AND UPLINK ROBUSTNESS DESIGN	[redacted]		PCT	APP-Pending	CN	201680083844.3		108781137		
1911	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1912	POLAR CODES FOR HARQ TRANSMISSIONS	[redacted]		PCT	APP-Pending	CN	201680083369.0		108886438	Yes	
1913	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1914	POLAR CODES FOR HARQ TRANSMISSIONS	[redacted]		NP	APP-Pending	TW	106106964		201737651	Yes	
1915	PHYSICAL RANDOM ACCESS CHANNEL (PRACH) DESIGN	[redacted]		EPT	APP-Pending	EP	16778629.2		3456137	Yes	
1916	AMPLITUDE-MODULATION SIGNAL AND PHASE-MODULATION SIGNAL DELAY ADJUSTMENT FOR POLAR TRANSMITTER	[redacted]		NP	PAT-Active	US	15/268955	9867155			
1917	PAPR reduction for IQ RFDAC	[redacted]		NP	PAT-Active	US	15/274721	9985811	US-2018-0091338-A1		
1918	QCL (QUASI CO-LOCATION) INDICATION FOR BEAMFORMING MANAGEMENT	[redacted]		PCT	APP-Pending	US	16/312645		US-2019-0334599-A1	Yes	
1919	LWA ENHANCEMENTS FOR TRI-BAND (2.4 GHZ 5 GHZ AND 60 GHZ) WI-FI EQUIPMENT	[redacted]		EPT	APP-Pending	EP	17831455.5		3488630	Yes	
1920	CAMPING APPROACH IN MULTI-SIM USER EQUIPMENT WHEN PRESENT IN COVERAGE HOLES OF RESPECTIVE NETWORK OPERATORS	[redacted]		NP	PAT-Active	US	15/283117	10075891	US-2018-0098262-A1		
1921	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
1922	CAMPING APPROACH IN MULTI-SIM USER EQUIPMENT WHEN PRESENT IN COVERAGE HOLES OF RESPECTIVE NETWORK OPERATORS	[redacted]		NP	APP-Pending	CN	201730729617.0		107889284		
1923	CAMPING APPROACH IN MULTI-SIM USER EQUIPMENT WHEN PRESENT IN COVERAGE HOLES OF RESPECTIVE NETWORK OPERATORS	[redacted]		EPA	APP-Pending	EP	17739078.1		3301995		
1924	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		EPA	PAT-Active	EP	16191012.0	3301975	3301975		
1925	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		EPA	PAT-Active	DE	16191012.0	3301975	3301975		
1926	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		UM	PAT-Active	DE	20201690087496	[redacted]			
1927	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		EPA	PAT-Active	FR	16191012.0	3301975	3301975		
1928	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		EPA	PAT-Active	GB	16191012.0	3301975	3301975		
1929	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		EPA	PAT-Active	NL	16191012.0	3301975	3301975		
1930	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		PCT	APP-Pending	IN	201947007842		201947007842		
1931	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	[redacted]		PCT	APP-Pending	US	16/328741		US-2019-0260770-A1		
1932	MOBILE TERMINAL DEVICES AND METHODS IN MOBILE COMMUNICATION DEVICES	[redacted]		PCT	APP-Pending	US	16/325263		US-2019-0215783-A1		
1933	MOBILE COMMUNICATIONS DEVICE AND METHOD USING SINGLE TRANSMISSION CHAIN	[redacted]		NP	APP-Pending	IN	201631033508		201631033508		
1934	MOBILE DEVICE MANAGEMENT BASED ON PREDICTED BASE STATION BEHAVIOR	[redacted]		PCT	APP-Pending	US	16/327878		US-2019-0223098-A1		
1935	MULTIPLEXING A RECEIVE CHAIN BETWEEN ENTITIES OF A DEVICE WHEN ERROR CORRECTING TECHNIQUE IS EMPLOYED BY AN ENTITY	[redacted]		NP	APP-Pending	IN	201643037058		201643037058		
1936	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS	[redacted]		NP	APP-Pending	IN	201643033551		201643033551		
1937	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS	[redacted]		NP	APP-Pending	CN	201710762370.7		107889050		
1938	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS OR SUBSCRIPTIONS	[redacted]		NP	PAT-Active	US	15/688910	10440599	US-2018-0098238-A1		
1939	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS	[redacted]		CNT	APP-Pending	US	16/346334		US-2020-0053585-A1		
1940	METHOD AND DEVICE FOR PROVIDING CQI REPORTS	[redacted]		EPA	PAT-Active	EP	16193749.7	3301839	3301839		
1941	METHOD AND DEVICE FOR PROVIDING CQI REPORTS	[redacted]		EPA	PAT-Active	DE	16193749.7	3301839	3301839		
1942	METHOD AND DEVICE FOR PROVIDING CQI REPORTS	[redacted]		EPA	PAT-Active	FR	16193749.7	3301839	3301839		
1943	METHOD AND DEVICE FOR PROVIDING CQI REPORTS	[redacted]		EPA	PAT-Active	GB	16193749.7	3301839	3301839		
1944	METHOD AND DEVICE FOR PROVIDING CQI REPORTS	[redacted]		EPA	PAT-Active	NL	16193749.7	3301839	3301839		
1945	METHODS AND DEVICES FOR SELF-INTERFERENCE CANCELATION	[redacted]		PCT	APP-Pending	US	16/327386		US-2019-0229884-A1		
1946	DISCOVERY AND NETWORK ACCESS PROCEDURES FOR 5G THINGS COMMUNICATION SYSTEM	[redacted]		PCT	APP-Pending	US	16/079756		US-2019-0357123-A1	Yes	
1947	DISCOVERY AND NETWORK ACCESS PROCEDURES FOR 5G THINGS COMMUNICATION SYSTEM	[redacted]		NP	APP-Pending	TW	106103336		201739300	Yes	
1948	TESTING OF USER EQUIPMENTS FOR IDLE PERIODS DISTRIBUTION	[redacted]		PCT	APP-Pending	US	16/307346		US-2019-0141553-A1	Yes	
1949	Method of Assigning Group-IDs and User Positions to Stations in a Wireless Network	[redacted]		EPA	APP-Pending	EP	17194552.8		3462756		
1950	METHOD OF UPLINK CONTROL SIGNALING FOR NON-SCHEDULED UPLINK OPERATION OVER UNLICENSED SPECTRUM	[redacted]		PCT	APP-Pending	US	16/071893		US-2019-0037598-A1	Yes	
1951	DATA COMMUNICATION OVER SHORTENED TTI (TRANSMISSION TIME INTERVAL)	[redacted]		EPT	APP-Pending	EP	17746624		3491768		
1952	COLLECTION OF VNF (VIRTUAL NETWORK FUNCTION) PERFORMANCE MEASUREMENTS RELATED TO VIRTUALIZED RESOURCES	[redacted]		EPT	APP-Pending	EP	17787274.8		3491783		
1953	TRANSMISSION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS)	[redacted]		PCT	APP-Pending	US	16/323465			Yes	
1954	TRANSMISSION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS) FOR BANDWIDTH PARTS	[redacted]		CNT	APP-Pending	US	16/408003		US-2019-0356463-A1	Yes	
1955	UE CAPABILITY SIGNALING FOR MAKE-BEFORE-BREAK AND RACH-LESS HANDOVER	[redacted]		PCT	APP-Pending	DE	112017005592.7		112017005592.7		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
1956	STATION (STA) AND METHOD FOR USAGE OF PHASE NOISE COMPENSATION BASED ON OPERATIONAL PARAMETERS			NP	APP-Pending	US	15/281722		US-2018-0097593-A1		
1957	A TRANSMITTER AND A METHOD FOR GENERATING AN ANALOG RADIO FREQUENCY TRANSMIT SIGNAL			PCT	APP-Pending	DE	1120160071884		112016007188		
1958	A TRANSMITTER AND A METHOD FOR GENERATING AN ANALOG RADIO FREQUENCY TRANSMIT SIGNAL			PCT	APP-Pending	US	16/321082		US-2019-0181889-A1		
1959	HYBRID DISPLAY INTEGRATABLE ANTENNAS USING TOUCH SENSOR TRACE AND EDGE DISCONTINUITY STRUCTURES			NP	PAT-Active	US	15/465261	10241631	US-2018-0275789-A1		
1960	HYBRID DISPLAY INTEGRATABLE ANTENNAS USING TOUCH SENSOR TRACE AND EDGE DISCONTINUITY STRUCTURES			CNT	APP-Pending	US	16/274851		US-2019-0346946-A1		
1961	HYBRID DISPLAY INTEGRATABLE ANTENNAS			PCT	APP-Closed	WO	PCT/US2018/023347		WO2018/175430		
1962	HYBRID DISPLAY INTEGRATABLE ANTENNAS			PCT	APP-Pending	CN	2018800193706		110447006		
1963											
1964	LOW COMPLEXITY CHANNEL DECODERS			NP	PAT-Active	US	09/880707	7243295	US-2002-0194567-A1		
1965	LOW COMPLEXITY CHANNEL DECODERS			DIV	PAT-Active	US	10/829075	7240274	US-2004-0199856-A1		
1966	AUDIO SIGNAL PROCESSING FOR SPEECH COMMUNICATION			NP	PAT-Active	US	09/851399	6820054	US-2003-0023433-A1		
1967	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			NP	PAT-Active	US	10/291189	7333466	US-2004-0090906-A1		
1968	BUFFER STATUS REPORTING METHODS AND PROCEDURES			EPT	APP-Pending	EP	177398153		3498002	Yes	
1969	CHANNEL STATE INFORMATION CONFIGURATION FOR MOBILE COMMUNICATION SYSTEMS			PCT	APP-Pending	CN	2017800425554		109478967	Yes	
1970	X2 SUPPORT FOR ENHANCED MOBILITY (EMOB)			PCT	APP-Pending	DE	1120170040345		112017004034	Yes	
1971	CONTROL CHANNEL TRANSMISSION IN NEW RADIO ACCESS TECHNOLOGIES USING COMMON SEARCH SPACE			PCT	APP-Pending	US	16/467549		US-2019-0313388-A1		
1972	ENHANCED PHYSICAL RANDOM-ACCESS CHANNEL TRANSMISSION IN NEW RADIO STANDARD			PCT	APP-Pending	CN	2017800427155		109479327	Yes	
1973											
1974	ENHANCED LTE-WLAN AGGREGATION X2 AND XW SUPPORT FOR HANDOVER WITHOUT WLAN TERMINATION CHANGE			PCT	APP-Pending	DE	1120170040043		112017004004	Yes	
1975	SYSTEMS AND METHODS FOR DELIVERING RADIO APPLICATIONS TO RECONFIGURABLE RADIO EQUIPMENT			PCT	APP-Pending	WO	PCT/US2017/039117		WO2018/236399	Yes	
1976											
1977											
1978	SYSTEMS AND METHODS FOR DELIVERING RADIO APPLICATIONS TO RECONFIGURABLE RADIO EQUIPMENT			PCT	APP-Pending	US	16/481289			Yes	
1979	SYNCHRONIZATION SIGNAL TRANSMISSION FOR NEW RADIO STANDARD			PCT	APP-Pending	CN	2017800429377		109479234	Yes	
1980	INDOOR POSITIONING ENHANCEMENTS			PCT	APP-Pending	US	16/316494		US-2019-0297595-A1		
1981	RRC COORDINATION BETWEEN A PLURALITY OF NODES			PCT	APP-Pending	US	16/316489		US-2019-0297662-A1	Yes	
1982	SYSTEMS AND METHOD FOR SELECTING CARRIER RESOURCES FOR NAROWBAND PHYSICAL RANDOM ACCESS CHANNEL PROCEDURES			PCT	APP-Pending	US	16/316842		US 2020-0187256 A1	Yes	
1983	BEAM MEASUREMENT AND REPORTING IN CELLULAR NETWORKS			PCT	APP-Pending	US	16/324667		US-2019-0182696-A1	Yes	
1984											
1985	MULTIPLE MAC ENTITIES PER USER EQUIPMENT			EPT	APP-Pending	EP	178399549		3498047	Yes	
1986	SUPPORT OF SC-PTM BASED MULTICASTING FOR BL/CE AND NB-IoT UEs			PCT	APP-Pending	US	16/316771		US-2019-0246254-A1	Yes	
1987	NETWORK PROFILE SYSTEM AND METHOD			NP	APP-Pending	US	15/393551		US-2018-0191572-A1		
1988	NETWORK PROFILE SYSTEM AND METHOD			NP	APP-Pending	CN	2017112161474		108259219		
1989	USING A MANAGED OBJECT OPERATION TO CONTROL A LIFECYCLE MANAGEMENT OPERATION			PCT	APP-Pending	US	16/319886		US-2019-0266012-A1		
1990	METHOD FOR COMMUNICATING COMPUTER PROGRAM WIRELESS COMMUNICATION DEVICE WIRELESS COMMUNICATIONS PROCESSOR TRANSMITTER AND APPLICATION PROCESSOR			EPA	APP-Pending	EP	161965512		3316629		
1991	METHODS AND DEVICES FOR COMPENSATING MISADJUSTMENT OF A GNSS DEVICE			NP	PAT-Active	US	15/282601	10222480	US-2018-0095178-A1		
1992	COMMUNICATION OPERATIONS IN MULTI-SIM WIRELESS DEVICES			NP	APP-Pending	IN	201641042578		201641042578		
1993	COMMUNICATION OPERATIONS IN MULTI-SIM WIRELESS DEVICES			PCT	APP-Closed	WO	PCT/US2017/065678		WO2018/111790		
1994	CAMPING IN THE CONTEXT OF DEVICE-TO-DEVICE COMMUNICATION CAPABILITY IN A WIRELESS DEVICE			NP	APP-Pending	IN	201641042648		201641042648		
1995	CAMPING IN THE CONTEXT OF DEVICE-TO-DEVICE COMMUNICATION CAPABILITY IN A WIRELESS DEVICE			PCT	APP-Closed	WO	PCT/US2017/065681		WO2018/111793		
1996	LDPC DECODER FOR DECODING CONVOLUTIONAL CODES OR TURBO CODES			EPA	APP-Closed	EP	161914718		3301814		
1997	BEAM REFINEMENT AND CONTROL SIGNALING FOR MOBILE COMMUNICATION SYSTEMS			PCT	APP-Pending	CN	201780044618X		109565317	Yes	
1998	FILTERING FOR MEASUREMENT IN FIFTH GENERATION NETWORKS			EPT	APP-Pending	EP	178417762		3501200	Yes	
1999	BANDWIDTH UTILIZATION DURING SILENCE FRAMES			PCT	APP-Pending	WO	PCT/US2017/032141		WO2018/208304		
2000											
2001											
2002	BANDWIDTH UTILIZATION DURING SILENCE FRAMES			PCT	APP-Pending	US	16/605681		US 2020-0137623 A1		
2003	PHASE COMPENSATION REFERENCE SIGNAL FOR 5G SYSTEMS			PCT	APP-Pending	CN	2017800280432		109075950	Yes	
2004	PHASE COMPENSATION REFERENCE SIGNAL FOR 5G SYSTEMS			FPR	APP-Pending	HK	191221696		191221696	Yes	
2005	SCHEDULING UPLINK TRANSMISSIONS FOR A USER EQUIPMENT (UE)			EPT	APP-Pending	EP	167847706		3366075		
2006	SCHEDULING UPLINK TRANSMISSIONS FOR A USER EQUIPMENT (UE)			PCT	APP-Pending	US	15/761397		US-2018-0270860-A1		
2007	METHOD AND APPARATUS FOR CHANNEL ACCESS FOR TRANSMISSION OF PUSCH AND UL CONTROL			EPT	APP-Pending	EP	177014024		3400745	Yes	
2008	UL (UPLINK) CONTROL DESIGN FOR UNLICENSED SPECTRUM			EPT	APP-Pending	EP	177013679		3400671	Yes	
2009	CONSTRUCTING REPRESENTING AND ENCODING POLAR CODES			PCT	APP-Pending	CN	201680084572X		109075892		
2010											
2011	TRANSMISSION OF MULTIPLE USER SUPERPOSITION TRANSMISSION (MUST) PARAMETERS TO USER EQUIPMENTS			PCT	APP-Pending	CN	2017800456976		109478986	Yes	
2012	DEVICES AND METHODS FOR ELAA MULTI-CARRIER LBT			PCT	APP-Pending	US	16/321812		US-2019-0174546-A1		
2013	NETWORK ASSISTED SIGNALING FOR HIGH SPEED DEPLOYMENTS			PCT	APP-Pending	DE	1120170041740		112017004174	Yes	
2014	MASTER INFORMATION BLOCK AND SYSTEM INFORMATION BLOCK TRANSMISSIONS IN UNLICENSED SPECTRUM			PCT	APP-Pending	CN	2016800664160		108293191	Yes	
2015	MASTER INFORMATION BLOCK AND SYSTEM INFORMATION BLOCK TRANSMISSIONS IN UNLICENSED SPECTRUM			FPR	APP-Pending	HK	181156359		1256561	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2016	TRANSMITTER AND RECEIVER FOR MASTER INFORMATION BLOCK OVER PHYSICAL BROADCAST CHANNEL	[redacted]		PCT	APP-Pending	US	16/060401		US-2019-0007896-A1	Yes	
2017	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM	[redacted]		EPT	APP-Pending	EP	178725800		3542467		
2018	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM	[redacted]		PCT	APP-Pending	US	16/461727		US-2019-0320498-A1		
2019	DEVICE AND METHOD FOR ULTRASONIC COMMUNICATION	[redacted]		NP	APP-Pending	US	15/378299		US-2018-0167147-A1		
2020	DEVICES AND METHODS FOR PROCESSING TRANSMISSIONS FROM MULTIPLE NETWORK ACCESS NODES BASED ON DISTINGUISHING FEATURES	[redacted]		NP	PAT-Active	US	15/393363	10390382	US-2018-0192449-A1	Yes	
2021	SYSTEM AND METHOD OF CONTROLLING A TRANSMISSION	[redacted]		CNT	APP-Pending	US	16/454066		US 2019-0387562 A1	Yes	
2022	A SYSTEM AND METHOD OF COTROLLING A TRANSMISSION	[redacted]		PCT	APP-Closed	WO	PCT/US2017/067763		WO2018/125730	Yes	
2023	DOWNLINK CONTROL CHANNEL DESIGN FOR BEAMFORMING SYSTEMS	[redacted]		PCT	APP-Pending	US	16/326168		US-2019-0182009-A1	Yes	
2024	SYSTEMS METHODS AND DEVICES FOR USER PLANE TRAFFIC FORWARDING	[redacted]		PCT	APP-Closed	WO	PCT/CN2017/076883		WO2018/165934		
2025	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2026	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2027	SYSTEMS METHODS AND DEVICES FOR USER PLANE TRAFFIC FORWARDING	[redacted]		PCT	APP-Pending	US	16/479432		US 2019-0364456 A1		
2028	CELLULAR WAKEUP RECEIVER FOR REDUCING POWER CONSUMPTION OF USER EQUIPMENT EMPLOYING LTE-WLAN AGGREGATION	[redacted]		PCT	APP-Closed	WO	PCT/US2017/013217		WO2018/132100	Yes	
2029	CELLULAR WAKEUP RECEIVER FOR REDUCING POWER CONSUMPTION OF USER EQUIPMENT EMPLOYING LTE-WLAN AGGREGATION	[redacted]		PCT	APP-Pending	US	16/475613		US-2019-0327679-A1	Yes	
2030	IoT goes Unlicensed	[redacted]		PCT	APP-Closed	WO	PCT/US2017/024446		WO2018/182573	Yes	
2031	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2032	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2033	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
2034	BEAMFORMING FOR BLOCKAGE DETECTION SIGNAL	[redacted]		PCT	APP-Closed	WO	PCT/US2016/068744		WO2018/125057	Yes	
2035	CSI (CHANNEL STATE INFORMATION)-RS (REFERENCE SIGNAL) OVERHEAD REDUCTION FOR CLASS B FD (FULL DIMENSIONAL)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT) SYSTEMS	[redacted]		PCT	APP-Pending	US	16/067929		US-2019-0223187-A1		
2036	CODE DIVISION MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]		PCT	APP-Pending	CN	2016800833900		108781124	Yes	
2037	CODE DIVISION MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]		FPR	APP-Pending	HK	191217116		191217116	Yes	
2038	MOBILITY ENHANCEMENTS FOR INTRA-CELL AND INTER-CELL MOBILITY IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	APP-Pending	EP	177549524		3516899	Yes	
2039	WIRELESS LOCAL AREA NETWORK INTEGRATION WITH INTERNET PROTOCOL SECURITY TUNNEL	[redacted]		PCT	APP-Pending	DE	1120170037417		112017003741	Yes	
2040	AT COMMANDS FOR CELLULAR INTERNET OF THINGS RATE CONTROL	[redacted]		PCT	APP-Pending	CN	2017800533050		109644375	Yes	
2041	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2042	SYSTEM AND METHOD FOR BEAMED REFERENCE SIGNAL WITH HYBRID BEAM	[redacted]		PCT	APP-Pending	US	15/767113		US-2019-0074890-A1	Yes	
2043	SUPPORT OF FREQUENCY HOPPING WITH DIFFERENT NUMBER OF PHYSICAL RESOURCE BLOCKS IN DIFFERENT HOPPED FREQUENCY REGIONS	[redacted]		PCT	APP-Pending	DE	1120170038219		112017003821	Yes	
2044	UPLINK TRANSMISSION FOR MULTIPLE SERVICES AND PHYSICAL CONFIGURATIONS IN WIRELESS NETWORKS	[redacted]		EPT	APP-Pending	EP	177841012		3520533	Yes	
2045	METHOD OF APERIODIC CSI-RS INDICATION FOR NEW RADIO	[redacted]		EPT	APP-Pending	EP	177851029		3520263	Yes	
2046	ENHANCED CELL IDENTIFIER POSITIONING	[redacted]		PCT	APP-Pending	DE	1120170042542		112017004254	Yes	
2047	SYSTEMS AND METHODS FOR CONFIGURATION OF LIGHT CONNECTION	[redacted]		PCT	APP-Pending	CN	2017800547763		109691222	Yes	
2048	CAPABILITY NOTIFICATION FOR USER EQUIPMENT LATENCY REDUCTION	[redacted]		PCT	APP-Pending	DE	1120170038235		112017003823	Yes	
2049	CORE NETWORK OVERLOAD CONTROL FOR CONTROL PLANE EVOLVED PACKET SYSTEM	[redacted]		PCT	APP-Pending	CN	2017800534829		109923879		
2050	LINK MONITORING REPETITION LEVEL FEEDBACK FOR COMMUNICATION SYSTEMS	[redacted]		PCT	APP-Pending	US	16/328543		US-2019-0215909-A1	Yes	
2051	INTRA- AND INTER-RAT CO-EXISTENCE AND CONGESTION CONTROL FOR LTE PC5-BASED VEHICLE-TO-VEHICLE (V2V) COMMUNICATION	[redacted]		PCT	APP-Pending	US	16/322412		US-2019-0174547-A1	Yes	
2052	PDCP RLC HANDLING IN DC SPLIT BEARER	[redacted]		EPT	APP-Pending	EP	178569364		3520470	Yes	
2053	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
2054	UE CAPABILITIES FOR ELWA	[redacted]		PCT	APP-Pending	DE	1120170042887		112017004288	Yes	
2055	CONFIGURATION OF DISCONTINUOUS RECEPTION (DRX) PARAMETERS IN LIGHT CONNECTION	[redacted]		EPT	APP-Pending	EP	177379658		3520555	Yes	
2056	DMRS FOR 5G THINGS COMMUNICATION SYSTEM	[redacted]		PCT	APP-Pending	US	16/079470		US-2019-0052442-A1	Yes	
2057	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
2058	USER EQUIPMENT (UE) AND METHOD OF SIDELINK DATA COMMUNICATION IN FIFTH GENERATION (5G) NEW RADIO (NR) THINGS NETWORKS	[redacted]		PCT	APP-Pending	US	16/078999		US-2019-0090220-A1	Yes	
2059	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
2060	RANDOM-ACCESS AND SCHEDULING-REQUEST IN NEW RADIO-THINGS SIDELINK	[redacted]		PCT	APP-Pending	US	16/079617		US-2019-0058551-A1	Yes	
2061	UPLINK POSITIONING FOR NARROW BAND INTERNET OF THINGS	[redacted]		PCT	APP-Pending	DE	1120170038251		112017003825		
2062	MULTIPLE RADIO RESOURCE RESERVATION FOR VEHICLE-TO-EVERYTHING COMMUNICATIONS	[redacted]		PCT	APP-Pending	US	16/323957		US-2019-0182890-A1	Yes	
2063	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST (HARQ)	[redacted]		PCT	APP-Pending	US	16/322068		US-2019-0191487-A1	Yes	
2064	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST (HARQ)	[redacted]		CNT	APP-Pending	US	16/408016		US-2019-0335536-A1	Yes	
2065	NARROWBAND DEFINITIONS RESOURCE ALLOCATION AND FREQUENCY HOPPING FOR USER EQUIPMENT	[redacted]		PCT	APP-Pending	CN	2017800435448		109479280		
2066	MULTI-CARRIER QCL (QUASI CO-LOCATION) FOR ANTENNA PORTS IN NR (NEW RADIO)	[redacted]		PCT	APP-Pending	DE	1120170041813		112017004181	Yes	
2067	ORTHOGONAL MULTIPLEXING TECHNIQUES FOR DEMODULATION REFERENCE SIGNALS	[redacted]		EPT	APP-Pending	EP	177155827		3433965		
2068	METHOD AND APPARATUS FOR A HIGH ISOLATION DUAL PORT ANTENNA SYSTEM	[redacted]		NP	PAT-Active	US	10/005738	6608602	US-2003-0085847-A1		
2069	SPARSE CHANNEL ESTIMATION FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SIGNALS	[redacted]		CNT	PAT-Active	US	11/750039	7609616	US-2007-0223610-A1		
2070	CELL SELECTION TECHNIQUES FOR DIRECTIONAL COMMUNICATIONS	[redacted]		PCT	APP-Pending	WO	PCT/US2017/030194		WO2018/199991	Yes	
2071	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2072	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2073	CELL SELECTION TECHNIQUES FOR DIRECTIONAL COMMUNICATIONS	[redacted]		PCT	APP-Pending	US	16/497496		US 2020-0107239 A1	Yes	
2074	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR MULTIPLEXING NEW RADIO (NR) PHYSICAL UPLINK SHARED CHANNEL (NR PUSCH) AND NR PHYSICAL UPLINK CONTROL CHANNEL (NR PUCCH)	[redacted]		PCT	APP-Pending	US	16/322040		US-2019-0191453-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2075	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR MULTIPLEXING NEW RADIO (NR) PHYSICAL UPLINK SHARED CHANNEL (NR PUSCH) AND NR PHYSICAL UPLINK CONTROL CHANNEL (NR PUCCH)	[redacted]		CNT	APP-Pending	US	16/607951		US-2019-0335493-A1	Yes	
2076	UE BEHAVIOR DURING SRS SWITCHING AMONG TDD COMPONENT CARRIERS	[redacted]		PCT	APP-Pending	CN	201780090077835		109804595	Yes	
2077	ANGULAR ELECTRODE	[redacted]		NP	PAT-Active	US	15/473961	10138961	US-2018-0287715-A1		
2078	ANGULAR ELECTRODE	[redacted]		PCT	APN-Closed	WO	PCT/US2018/024667		WO2018/182850		
2079	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2080											
2081	FREQUENCY DEPENDENT ENVELOPE TRACKING	[redacted]		NP	APP-Pending	US	15/443260		US-2018-0248570-A1		
2082	FREQUENCY DEPENDENT ENVELOPE TRACKING	[redacted]		PCT	APN-Closed	WO	PCT/US2018/015413		WO2018/156303		
2083	FREQUENCY DEPENDENT ENVELOPE TRACKING	[redacted]		PCT	APP-Pending	CN	201880003881?X		110235350		
2084	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2085	ANTENNA INCORPORATED INTO DEVICE HINGE AND METHOD	[redacted]		NP	PAT-Active	US	15/477054	10141630	US-2018-0287241-A1		
2086	ANTENNA INCORPORATED INTO DEVICE HINGE AND METHOD	[redacted]		PCT	APP-Pending	WO	PCT/US2018/014684		WO2018/182833		
2087	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2088											
2089	RF Transmit Architecture Methods	[redacted]		NP	PAT-Active	US	15/476054	10153919	US-2018-0287821-A1		
2090	RF TRANSMIT ARCHITECTURE METHODS	[redacted]		CNT	APP-Pending	US	16/193431		US-2019-0327118-A1		
2091	RF TRANSMIT ARCHITECTURE METHODS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024589		WO2018/183343		
2092	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2093											
2094	BINARY STOCHASTIC TIME-TO-DIGITAL CONVERTER AND METHOD	[redacted]		NP	PAT-Active	US	15/477057	9927775			
2095	BINARY STOCHASTIC TIME-TO-DIGITAL CONVERTER AND METHOD	[redacted]		PCT	APP-Pending	WO	PCT/US2018/014356		WO2018/182826		
2096	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2097											
2098	DOWNLINK CONTROL INFORMATION DESIGN WITH SHORTER TTI	[redacted]		PCT	APN-Pending	US	16/346335		US-2019-0268931-A1	Yes	
2099	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR SIGNALING OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) ALLOCATIONS	[redacted]		PCT	APP-Pending	DE	112017004435?		112017004435?	Yes	
2100	LIFECYCLE MANAGEMENT PARAMETER MODELING FOR VIRTUAL NETWORK FUNCTIONS	[redacted]		PCT	APP-Pending	US	16/338987		US-2020-0107239-A1	Yes	
2101	SYSTEMS METHODS AND DEVICES FOR MEASUREMENT AND COMMUNICATION OF NUMEROLOGY OF SUBCARRIER SPACING	[redacted]		EPT	APP-Pending	EP	17715286		3520461	Yes	
2102	RADAR METHODS AND APPARATUS USING IN PHASED ARRAY COMMUNICATION SYSTEMS	[redacted]		NP	APP-Pending	US	15/389426		US-2018-0180713-A1		
2103	RADAR UTILIZATION IN PHASED ARRAY COMMUNICATION SYSTEMS	[redacted]		PCT	APP-Closed	WO	PCT/US2017/056505		WO2018/118195		
2104	SYSTEMS AND METHODS TO OPTIMIZE REPORTING OF PHYSICAL PARAMETERS IN A TELECOMMUNICATION NETWORK	[redacted]		PCT	APP-Pending	DE	112017005125?		112017005125	Yes	
2105	SYSTEMS AND METHODS TO REPORT BAND COMBINATION CAPABILITIES IN A TELECOMMUNICATION NETWORK	[redacted]		PCT	APP-Pending	US	16/339343		US-2019-0306925-A1	Yes	
2106	MEASUREMENT REPORTING IN NEW RADIO WIRELESS COMMUNICATION NETWORK	[redacted]		PCT	APP-Pending	CN	201780096180827		111088043	Yes	
2107	SIGNALING OF SUPPORT FOR NETWORK CONTROLLED SMALL GAP NCSG FOR INTERRUPTION CONTROL	[redacted]		PCT	APP-Pending	US	16/339500		US-2020-0045600-A1	Yes	
2108	AVOIDANCE OF HFN DESYNCHRONIZATION IN UPLINK OVER WLAN IN LTE-WLAN AGGREGATION	[redacted]		PCT	APP-Pending	CN	201780096197907		109792363	Yes	
2109	SYSTEMS METHODS AND DEVICES FOR MAKE-BEFORE-BREAK HANDOVER AND SECONDARY CELL GROUP RECONFIGURATION	[redacted]		PCT	APP-Pending	DE	112017004878?		112017004878	Yes	
2110	Frequency domain based digital cancellation of modulated spur interference in LTE-CA transceivers	[redacted]		NP	APP-Pending	US	15/474243		US-2018-0287739-A1		
2111	Frequency domain based digital cancellation of modulated spur interference in LTE-CA transceivers	[redacted]		PCT	APP-Closed	WO	PCT/US2018/024689		WO2018/182889		
2112	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2113											
2114	DEVICE FOR AND METHOD OF RADIO ACCESS TECHNOLOGY SELECTION AMONG MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]		PCT	APP-Pending	US	16/310407		US-2019-0150082-A1	Yes	
2115	SPUR CANCELATION USING INVERSE SPUR INJECTION	[redacted]		NP	PAT-Active	US	15/489078	10288332	US-2018-0254852-A1		
2116	SPUR CANCELATION USING INVERSE SPUR INJECTION	[redacted]		PCT	APP-Closed	WO	PCT/US2018/026490		WO2018/160312		
2117	SPUR CANCELATION USING INVERSE SPUR INJECTION	[redacted]		PCT	APP-Pending	CN	201880018735?		110366825		
2118	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2119	Feed-Forward Envelope Tracking	[redacted]		NP	PAT-Active	US	15/474186	10090808	US-2018-0287563-A1		
2120	Feed-Forward Envelope Tracking	[redacted]		CNT	APP-Pending	US	16/140991		US-2019-0036486-A1		
2121	Feed-Forward Envelope Tracking	[redacted]		PCT	APP-Closed	WO	PCT/US2018/023832		WO2018/182880		
2122	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2123											
2124	POLAR TRANSMITTER WITH JOINED MODULATOR	[redacted]		NP	PAT-Active	US	15/639444	10116341			
2125	POLAR TRANSMITTER WITH JOINED MODULATOR	[redacted]		PCT	APN-Pending	WO	PCT/US2018/032301		WO2019/005305		
2126	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2127											
2128	DEVICE AND METHOD FOR RADIO CELL SELECTION	[redacted]		NP	PAT-Active	US	15/720447	10405249	US-2019-0104453-A1		
2129	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2130	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		EPA	PAT-Active	EP	17155980?	3361790	3361790		
2131	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		EPA	PAT-Active	DE	17155980?	3361790	3361790		
2132	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		EPA	PAT-Active	FR	17155980?	3361790	3361790		
2133	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		EPA	PAT-Active	GB	17155980?	3361790	3361790		
2134	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		EPA	PAT-Active	NL	17155980?	3361790	3361790		
2135	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		PCT	APN-Closed	WO	PCT/EP2018/050871		WO2018/149576		
2136	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		PCT	APP-Pending	CN	201880013979?		110313200		
2137	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	[redacted]		PCT	APP-Pending	US	16/484325		US-2020-0022085-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2138	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		EPA	PAT-Active	EP	173640972	3382908	3382908		
2139	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		EPA	PAT-Active	DE	173640972	3382908	3382908		
2140	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		EPA	PAT-Active	FR	173640972	3382908	3382908		
2141	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		EPA	PAT-Active	GB	173640972	3382908	3382908		
2142	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		EPA	PAT-Active	NL	173640972	3382908	3382908		
2143	EFFICIENT BEAM SEARCH METHODS FOR THREE DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		PCT	APP-Closed	WO	PCT/US2018/021912		WO2018/182954		
2144	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2145	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	[redacted]		PCT	APP-Pending	US	16/488618		US-2020-0052755-A1		
2146	TRANSMISSION POWER CONTROL METHODS AND DEVICES	[redacted]		NP	PAT-Active	US	15/476061	10129834	US-2018-0288709-A1		
2147	TRANSMISSION POWER CONTROL METHODS AND DEVICES	[redacted]		PCT	APP-Closed	WO	PCT/US2018/013856		WO2018/182822		
2148	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2149											
2150	UPLINK DEMODULATION REFERENCE SIGNAL ENHANCEMENT IN FULL-DIMENSION MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEMS	[redacted]		EPT	APP-Pending	EP	17719463.6		3443700	Yes	
2151	METHODS AND DEVICES FOR PROCESSING A DATA SIGNAL FOR TRANSMISSION TO MULTI-STREAM TERMINALS	[redacted]		PCT	APP-Pending	WO	PCT/CN2017/079732		WO2018/184211		
2152	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2153											
2154	METHODS AND DEVICES FOR PROCESSING A DATA SIGNAL FOR TRANSMISSION TO MULTI-STREAM TERMINALS	[redacted]		PCT	APP-Pending	US	16/494474		US-2020-0091986-A1		
2155	APPARATUS AND METHOD FOR INTERPOLATING BETWEEN A FIRST AND A SECOND SIGNAL	[redacted]		PCT	APP-Closed	WO	PCT/US2017/025244		WO2018/182662		
2156	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2157											
2158	APPARATUS AND METHOD FOR INTERPOLATING BETWEEN A FIRST AND A SECOND SIGNAL	[redacted]		PCT	APP-Pending	US	16/474560		US-2019-0356306-A1		
2159	OFFSET SYSTEM AND METHOD FOR MULTI-BIT DIGITAL-TO-ANALOG CONVERTERS	[redacted]		PCT	APP-Closed	WO	PCT/US2017/054329		WO2018/136120		
2160	OFFSET SYSTEM AND METHOD FOR MULTI-BIT DIGITAL-TO-ANALOG CONVERTERS	[redacted]		PCT	APP-Pending	US	16/349390		US-2019-0341923-A1		
2161	METHOD FOR TRANSMISSION OF UNICAST CONTROL IN BROADCAST/MULTICAST TRANSMISSION TIME INTERVALS	[redacted]		NP	PAT-Active	US	13/554959	8175021	US-2007-0064153-A1	Yes	
2162	Method for Transmission of Unicast Control in Broadcast/Multicast Transmission Time Intervals	[redacted]		CNT	PAT-Active	US	13/646492	9147393	US-2012-0195246-A1	Yes	
2163	METHOD FOR TRANSMISSION OF UNICAST CONTROL IN BROADCAST/MULTICAST TRANSMISSION TIME INTERVALS	[redacted]		DIV	PAT-Active	US	14/840933	9807789	US-2015-0373738-A1	Yes	
2164	METHOD FOR TRANSMISSION OF UNICAST CONTROL IN BROADCAST/MULTICAST TRANSMISSION TIME INTERVALS	[redacted]		CNT	PAT-Active	US	15/795628	10462810	US-2018-0220465-A1	Yes	
2165	WIDEBAND REFERENCE SIGNAL TRANSMISSION IN SC-FDMA COMMUNICATION SYSTEMS	[redacted]		NP	PAT-Active	US	13/927348	7957759	US-2008-0139237-A1	Yes	
2166	WIDEBAND REFERENCE SIGNAL TRANSMISSION IN SC-FDMA COMMUNICATION SYSTEMS	[redacted]		DIV	PAT-Active	US	13/108867	9838980	US-2011-0212765-A1	Yes	
2167	Signaling of Random Access Preamble Sequences in Wireless Networks	[redacted]		NP	PAT-Active	US	12/184239	8773958	US-2009-0046629-A1	Yes	
2168	SIGNALING OF RANDOM ACCESS PREAMBLE SEQUENCES IN WIRELESS NETWORKS	[redacted]		CNT	PAT-Active	US	14/326354	9774424	US-2014-0341010-A1	Yes	
2169	SIGNALING OF RANDOM ACCESS PREAMBLE SEQUENCES IN WIRELESS NETWORKS	[redacted]		CNT	PAT-Active	US	15/713893	10469235	US-2018-0131481-A1	Yes	354
2170	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		NP	PAT-Active	US	12/234362	9025586	US-2009-0080407-A1	Yes	
2171	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		PCT	PAT-Active	CN	200880117058.0	ZL 2008801 17058.0	101858928	Yes	
2172	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		DIV	PAT-Active	CN	201510094232.99	ZL 2015100 4232.99	104506295	Yes	
2173	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		DIV	PAT-Active	US	14/858515	9806859	US-2016-0088165-A1	Yes	
2174	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		CNT	PAT-Active	US	15/729064	10238470	US-2018-0123750-A1	Yes	515
2175	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		EPT	PAT-Active	EP	88317664	2193618	2193614	Yes	
2176	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		ETD	APP-Pending	EP	3335486.6		3337060	Yes	
2177	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		EPT	PAT-Active	DE	88317668	2193614	2193614	Yes	
2178	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		EPT	PAT-Active	FR	88317668	2193614	2193614	Yes	
2179	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		EPT	PAT-Active	GB	88317664	2193618	2193614	Yes	
2180	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		EPT	PAT-Active	NL	88317664	2193618	2193614	Yes	
2181	SECONDARY SYNCHRONIZATION SIGNAL MAPPING	[redacted]		PCT	PAT-Active	KR	10-2010-7008586	10-1170235	10-2010-0068863	Yes	
2182	MULTISTAGE MATCHED FILTER	[redacted]		EPA	PAT-Closed	EP	99203379.5	994572	994572	Yes	
2183	MULTISTAGE MATCHED FILTER	[redacted]		EPA	PAT-Closed	DE	99203379.5	994572	994572	Yes	
2184	MULTISTAGE MATCHED FILTER	[redacted]		EPA	PAT-Closed	FR	99203379.5	994572	994572	Yes	
2185	MULTISTAGE MATCHED FILTER	[redacted]		EPA	PAT-Closed	GB	99203379.5	994572	994572	Yes	
2186	SIMPLIFIED CELL SEARCH SCHEME FOR FIRST AND SECOND STAGE	[redacted]		NP	PAT-Closed	JP	1999-295289	4426178	2000-124836	Yes	
2187	SIMPLIFIED CELL SEARCH SCHEME FOR FIRST AND SECOND STAGE	[redacted]		NP	PAT-Closed	KR	10-1999-0044567	10-0373172	10-2000-0035012	Yes	
2188	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEMS WITH CLOSED LOOP MODE USING NINETY DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		NP	PAT-Active	US	09/635715	6831963		Yes	
2189	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEMS WITH CLOSED LOOP MODE USING NINETY DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		DIV	PAT-Active	US	10/781472	7394867	US-2004-0160927-A1	Yes	
2190	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEMS WITH CLOSED LOOP MODE USING NINETY DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		DIV	PAT-Active	US	10/919470	7346121	US-2005-0026566-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2191	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH CLOSED LOOP MODE USING NINETY DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		CNT	PAT-Active	US	11/681088	7463700	US-2007-0165699-A1	Yes	
2192	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH CLOSED LOOP MODE USING NINETY DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		DIV	PAT-Active	US	12/331279	7711034	US-2009-0103590-A1	Yes	
2193	CDMA WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90 DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		EPA	PAT-Active	EP	1172097	1076425	1076425	Yes	
2194	CDMA WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90 DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		EPA	PAT-Active	DE	1172097	1076425	1076425	Yes	
2195	CDMA WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90 DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		EPA	PAT-Active	FR	1172097	1076425	1076425	Yes	
2196	CDMA WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90 DEGREE PHASE ROTATION AND BEAMFORMER VERIFICATION	[redacted]		EPA	PAT-Active	GB	1172097	1076425	1076425	Yes	
2197	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90-DEGREE PHASE ROTATION AND BEAM FORMER CONFIRMATION	[redacted]		NP	PAT-Active	JP	2000-282674	5096650	2001-127675	Yes	
2198	CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH CLOSED LOOP MODE USING 90-DEGREE PHASE ROTATION AND BEAM FORMER CONFIRMATION	[redacted]		DIV	PAT-Active	JP	2012-145803	5624586	2012-231514	Yes	
2199	Broadcast multicast mode	[redacted]		NP	PAT-Active	US	11/117920	9525977	US-2005-0276238-A1		
2200	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/111810	8218526	US-2008-0267165-A1	Yes	
2201	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		CNT	PAT-Active	US	13/531006	9166717	US-2013-0242973-A1	Yes	
2202	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	EP	87471272	2153571	2153571	Yes	
2203	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	AT	87471272	2153571	2153571	Yes	
2204	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	BE	87471272	2153571	2153571	Yes	
2205	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	CH	87471272	2153571	2153571	Yes	
2206	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	DE	87471272	2153571	2153571	Yes	
2207	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	EE	87471272	2153571	2153571	Yes	
2208	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	ES	87471272	2153571	2153571	Yes	
2209	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	FR	87471272	2153571	2153571	Yes	
2210	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	GB	87471272	2153571	2153571	Yes	
2211	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	GR	87471272	2153571	2153571	Yes	
2212	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	HU	87471272	2153571	2153571	Yes	
2213	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	IE	87471272	2153571	2153571	Yes	
2214	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	NL	87471272	2153571	2153571	Yes	
2215	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS	[redacted]		EPT	PAT-Active	SK	87471272	2153571	2153571	Yes	
2216	TRANSMISSION OF BUNDLED FEEDBACK IN WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/389486	8345605	US-2009-0213769-A1	Yes	
2217	TRANSMISSION OF BUNDLED FEEDBACK IN WIRELESS NETWORKS	[redacted]		PCT	PAT-Active	CN	2009801057080	ZL2009801057080	101946447	Yes	
2218	TRANSMISSION OF BUNDLED FEEDBACK IN WIRELESS NETWORKS	[redacted]		DIV	PAT-Active	CN	2014108210192	ZL2014108210192	104506285	Yes	
2219	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		NP	PAT-Active	US	11/737554	8031745	US-2007-0248068-A1	Yes	
2220	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		PCT	APP-Closed	CN	2007800140791		101490978	Yes	
2221	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		DIV	PAT-Active	CN	2014101080501	ZL2014101080501	103874188	Yes	
2222	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		DIV	APP-Pending	CN	2016108754256		106304318	Yes	
2223	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		FPD	APP-Pending	HK	171062317		1232714	Yes	
2224	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS	[redacted]		PCT	PAT-Active	KR	10-2008-7028289	10-1055895	10-2009-0008375	Yes	
2225	METHODS AND DEVICES INDICATING AT LEAST ONE OF A TEMPERATURE AND FREQUENCY DEVIATION	[redacted]		EPA	APP-Pending	EP	171704521		3402261		
2226	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
2227	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
2228	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
2229	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
2230	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		DIV	PAT-Active	US	11/438149	7656934	US-2006-0280230-A1	Yes	
2231	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		DIV	PAT-Active	US	12/638468	7860152	US-2010-0091821-A1	Yes	
2232	PRIMARY AND SECONDARY SYNCHRONIZATION CODES FROM FIRST SECONDTHIRD SEQUENCES	[redacted]		DIV	PAT-Active	US	12/949413	8144747	US-2011-0064071-A1	Yes	
2233	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		DIV	PAT-Active	US	13/403201	8923362	US-2012-0147877-A1	Yes	
2234	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		DIV	PAT-Active	US	13/403223	8917756	US-2012-0154184-A1	Yes	

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2235	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		DIV	PAT-Active	US	13/493236	8681834	US-2012-0147730-A1	Yes	
2236	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		EPA	PAT-Active	DE	3051513	[redacted]	3061682	Yes	
2237	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		EPA	PAT-Active	EP	3051513	3061682	3061682	Yes	
2238	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		EPA	PAT-Active	FR	3051513	3061682	3061682	Yes	
2239	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE	[redacted]		EPA	PAT-Active	GB	3051513	3061682	3061682	Yes	
2240	WIRELESS COMMUNICATIONS SYSTEM WITH CYCLING OF UNIQUE CELL BIT SEQUENCES IN STATION COMMUNICATIONS	[redacted]		NP	PAT-Active	US	09/605610	7372825			
2241	WIRELESS COMMUNICATIONS SYSTEM WITH CYCLING OF UNIQUE CELL BIT SEQUENCES IN STATION COMMUNICATIONS	[redacted]		CNT	PAT-Active	US	12/034534	8107420	US-2008-0170638-A1		
2242	RECEIVER ALGORITHM FOR THE LENGTH 4 CFC	[redacted]		NP	PAT-Active	US	09/649390	6891882		Yes	
2243	METHOD AND APPARATUS FOR PRIORITIZING INFORMATION PROTECTION IN HIGH ORDER MODULATION SYMBOL MAPPING	[redacted]		NP	PAT-Active	US	09/948883	6476734	US-2002-0126763-A1	Yes	
2244	TRANSMISSION METHOD AND SYSTEM WITH UNEQUAL ERROR PROTECTION	[redacted]		EPA	PAT-Active	DE	10004471	[redacted]	1189380	Yes	
2245	TRANSMISSION METHOD AND SYSTEM WITH UNEQUAL ERROR PROTECTION	[redacted]		EPA	PAT-Active	EP	10004471	1189380	1189380	Yes	
2246	TRANSMISSION METHOD AND SYSTEM WITH UNEQUAL ERROR PROTECTION	[redacted]		EPA	PAT-Active	FR	10004471	1189380	1189380	Yes	
2247	TRANSMISSION METHOD AND SYSTEM WITH UNEQUAL ERROR PROTECTION	[redacted]		EPA	PAT-Active	GB	10004471	1189380	1189380	Yes	
2248	MULTIPLYING SYMBOL STREAMS BY RECTANGULAR MATRIX OF (P/M)x1 VECTORS	[redacted]		DIV	PAT-Active	US	13/466384	7715798	US-2006-0291581-A1	Yes	
2249	HIGH DATA RATE CLOSED LOOP MIMO SCHEME COMBINING TRANSMIT DIVERSITY AND DATA MULTIPLEXING	[redacted]		DIV	PAT-Active	US	12/970187	8139678	US-2011-0080976-A1	Yes	
2250	WIRELESS SYSTEM WITH HYBRID AUTOMATIC RETRANSMISSION REQUEST IN INTERFERENCE-LIMITED COMMUNICATIONS	[redacted]		NP	PAT-Active	US	10/260761	7295624	US-2004-0203456-A1	Yes	
2251	TIME-FREQUENCY INTERLEAVED ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING ULTRA WIDE BAND PHYSICAL LAYER	[redacted]		NP	PAT-Active	US	10/688169	7756002	US-2004-0151109-A1	Yes	
2252	Wireless Precoding Methods	[redacted]		CNT	PAT-Active	US	13/237543	8663575	US-2012-0008718-A1	Yes	
2253	WIRELESS PRECODING METHODS	[redacted]		CNT	PAT-Active	US	14/035476	9197300	US-2014-0093006-A1	Yes	
2254	SLOW UPLINK POWER CONTROL	[redacted]		NP	PAT-Active	US	11/825202	7668564	US-2006-0286995-A1	Yes	
2255	LOW COMPLEXITY DESIGN OF PRIMARY SYNCHRONIZATION SEQUENCE FOR OFDMA	[redacted]		NP	PAT-Active	US	11/835244	7948866	US-2008-0031186-A1	Yes	
2256	CODEBOOK AND PRE-CODER SELECTION FOR CLOSED-LOOP MIMO	[redacted]		NP	PAT-Active	US	11/883045	7949064	US-2008-0037675-A1	Yes	
2257	ADAPTIVE SELECTION OF TRANSMISSION PARAMETERS FOR REFERENCE SIGNALS	[redacted]		NP	PAT-Active	US	11/839421	8094636	US-2008-0051125-A1		
2258	ADAPTIVE SELECTION OF TRANSMISSION PARAMETERS FOR REFERENCE SIGNALS	[redacted]		CNT	PAT-Active	US	13/314405	8717993	US-2012-0113921-A1		
2259	NETWORK-BASED INTER-CELL POWER CONTROL FOR MULTI-CHANNEL WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/062343	8072918	US-2008-0247375-A1		
2260	BLOCK SCRAMBLING FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS	[redacted]		NP	PAT-Active	US	12/061878	8111731	US-2008-0247477-A1	Yes	
2261	PRE-SYNCHRONIZATION METHOD FOR HARD HANDOVERS IN WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/112412	8218500	US-2008-0267131-A1		
2262	RANDOM ACCESS PREAMBLE DETECTION FOR LONG TERM EVOLUTION WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/139814	8064546	US-2009-0040918-A1		
2263	TIME-SHARING OF SOUNDING RESOURCES	[redacted]		NP	PAT-Active	US	12/142235	8102809	US-2009-0034468-A1	Yes	
2264	DOWNLINK SIGNALING OF SOUNDING RESOURCES IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		CNT	PAT-Active	US	13/331038	8718011	US-2012-0320870-A1	Yes	
2265	TRANSMISSION OF ACK/NACK BITS AND THEIR EMBEDDING IN THE CQI REFERENCE SIGNAL	[redacted]		NP	PAT-Active	US	12/182242	8149938	US-2009-0042558-A1	Yes	
2266	TRANSMISSION OF ACK/NACK BITS AND THEIR EMBEDDING IN THE CQI REFERENCE SIGNAL	[redacted]		CNT	PAT-Active	US	13/438564	8254483	US-2012-0236773-A1	Yes	
2267	Transmission Using Nested OFDMA	[redacted]		DIV	PAT-Active	US	12/858944	8724542	US-2010-0309775-A1	Yes	
2268	ACK/NAK REPETITION SCHEMES IN WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/389583	8184579	US-2009-0207793-A1		
2269	INTERLEAVER DESIGN WITH UNEQUAL ERROR PROTECTION FOR CONTROL INFORMATION	[redacted]		NP	PAT-Active	US	12/357506	8140944	US-2009-0193955-A1		
2270	SOUNDING REFERENCE SIGNAL CELL SPECIFIC SUB-FRAME CONFIGURATION	[redacted]		NP	PAT-Active	US	12/811886	7965657	US-2009-0290514-A1	Yes	
2271	CELL SPECIFIC SOUNDING REFERENCE SIGNAL SUB-FRAME CONFIGURATION	[redacted]		NP	PAT-Active	US	12/432031	7590916	US-2009-0279459-A1	Yes	
2272	DEVICE RADAR SENSING	[redacted]		PCT	APP-Closed	WO	PCT/US2017/025524		WO2018/182723		
2273	DEVICE RADAR SENSING	[redacted]		PCT	APP-Pending	CN	201780097958		110352363		
2274	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		
2275	DEVICE RADAR SENSING	[redacted]		PCT	APP-Pending	US	16/490218		US 2020-0072963 A1		
2276	DESIGN OF IN-BAND BACKHAUL FOR WIRELESS RELAYS IN WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	12/683291	8259637	US-2010-0172006-A1	Yes	
2277	PROTOCOL STACK AND SCHEDULER FOR L3 RELAY	[redacted]		NP	PAT-Active	US	12/683300	8305985	US-2010-0172007-A1	Yes	
2278	Layer Mapping for Up Link Single User Multiple Input Multiple Output Wireless Telephony	[redacted]		NP	PAT-Active	US	12/693028	8971448	US-2010-0215109-A1	Yes	
2279	Coordinated Multi-Point Transmission in a Cellular Network	[redacted]		NP	PAT-Active	US	12/773491	8712399	US-2010-0285792-A1	Yes	
2280	SECURITY FOR PAGING MESSAGES	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
2281	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2282		[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2283	SECURITY FOR PAGING MESSAGES	[redacted]		PCT	APP-Pending	US	16/488556		US 2020-0015076 A1	Yes	
2284	MEASUREMENT ENHANCEMENT IN HIGH SPEED COMMUNICATION	[redacted]		EPT	APP-Pending	EP	17702900		3437372		
2285	CSI (CHANNEL STATE INFORMATION) ENHANCEMENTS FOR FD (FULL DIMENSION)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT)	[redacted]		PCT	APP-Pending	US	16/081372		US-2019-0068266-A1		
2286	FREQUENCY TRACKING FOR BEAMFORMED SYSTEMS	[redacted]		PCT	APP-Pending	US	16/085174			Yes	
2287	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR ADAPTIVE BEAMFORMING AND CHANNEL STATE INFORMATION (CSI) REPORTING	[redacted]		EPT	APP-Pending	EP	17769177		3455950		
2288	DEBUGGING TRANSLATION BLOCK AND DEBUGGING ARCHITECTURE	[redacted]		NP	PAT-Active	US	15/591161	10474515	US-2018-0329826-A1		
2289	METHOD AND APPARATUS FOR IP2 CALIBRATION	[redacted]		PCT	APP-Pending	WO	PCT/US2017/049614		WO2018/045729		
2290	GESTURE RECOGNITION RADAR SYSTEMS AND METHODS	[redacted]		PCT	APP-Pending	WO	PCT/US2018/038715		WO2019/005936		
2291	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		
2292		[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2293		[redacted]		[redacted]	[redacted]	[redacted]	[redacted]				
2294	APPARATUS AND METHOD FOR DETERMINING A DISTANCE TO AN OBJECT	[redacted]		EPA	APP-Pending	EP	171726821		3407082		
2295	APPARATUS AND METHOD FOR DETERMINING A DISTANCE TO AN OBJECT	[redacted]		NP	APP-Pending	CN	201810372032		108931767		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2296	APPARATUS AND METHOD FOR DETERMINING A DISTANCE TO AN OBJECT	[redacted]		NP	APP-Pending	US	15/961202		US-2018-0341007-A1		
2297	PEAK-TO-AVERAGE POWER RATIO REDUCTION FOR IQ TRANSMITTERS			PCT	APP-Pending	WO	PCT/US2017/039435		WO2019/005097		
2298	[redacted]										
2299											
2300	PEAK-TO-AVERAGE POWER RATIO REDUCTION FOR IQ TRANSMITTERS			PCT	APP-Pending	US	16/607883		US 2020-0119961 A1		
2301	DETECTING A TOUCH INPUT TO A SURFACE			PCT	APP-Pending	WO	PCT/US2017/048296		WO2019/035851		
2302	SMART BEAMWIDTH ADAPTATION IN WIRELESS HEAD-MOUNTED DISPLAYS			NP	PAT-Active	US	15/719057	10200148			
2303	REAL-TIME CO-CHANNEL INTERFERENCE SUPPRESSION			NP	PAT-Active	US	15/680479	10334455	US-2019-0007845-A1		
2304	REAL-TIME CO-CHANNEL INTERFERENCE SUPPRESSION			PCT	APP-Pending	WO	PCT/US2018/032317		WO2019/089960		
2305	[redacted]										
2306											
2307	SERVER- AND NETWORK-ASSISTED DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSPORT PROTOCOL SIGNALING			PCT	APP-Pending	WO	PCT/CN2017/080566		WO2018/188068		
2308	SERVER- AND NETWORK-ASSISTED DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSPORT PROTOCOL SIGNALING			PCT	APP-Pending	CN	201780089603S		110379420		
2309	[redacted]										
2310	SERVER- AND NETWORK-ASSISTED DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSPORT PROTOCOL SIGNALING			PCT	APP-Pending	US	16/480149		US 2019-0379720 A1		
2311	RF SIGNAL REPEATER MOBILE UNIT POSITION DETERMINATION SYSTEM USING THE RF SIGNAL REPEATER AND METHOD OF COMMUNICATION THEREFOR			NP	PAT-Active	US	09/596653	6501955			
2312	RF SIGNAL REPEATER IN MOBILE COMMUNICATIONS SYSTEMS			CNT	PAT-Active	US	10/173812	6839539	US-2002-0155838-A1		
2313	HIGH-SPEED MOBILITY COMMUNICATION SYSTEMS AND METHODS			PCT	APP-Pending	WO	PCT/CN2017/091094		WO2019/000390		
2314	[redacted]										
2315											
2316	HIGH-SPEED MOBILITY COMMUNICATION SYSTEMS AND METHODS			PCT	APP-Pending	US	16/500302				
2317	DYNAMIC OFFLOADING OF V2X SERVICES TO DSRC			PCT	APP-Pending	US	16/306501		US-2019-0174344-A1	Yes	
2318	APPARATUSES FOR PARTIALLY OFFLOADING PROTOCOL PROCESSING			PCT	APP-Pending	WO	PCT/US2017/040189		WO2019/005092		
2319	[redacted]										
2320											
2321	APPARATUSES FOR PARTIALLY OFFLOADING PROTOCOL PROCESSING			PCT	APP-Pending	US	16/489206		US 2020-0008112 A1		
2322	SYSTEM AND METHOD FOR PHYSICAL UPLINK REQUEST CHANNEL DESIGN			PCT	APP-Pending	CN	201780087859		109196811	Yes	
2323	PHASE NOISE COMPENSATION			EPT	APP-Pending	EP	17746575.2		3482543	Yes	
2324	TIMING ADVANCE FOR BEAM FORMING SYSTEMS			PCT	APP-Pending	CN	201780041249.9		109417768	Yes	
2325	COMMUNICATION SYSTEM AND METHOD			NP	APP-Pending	CL	01655-1996		01655-1996	Yes	
2326	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM			NP	APP-Closed	CL	01216-1997		01216-1997	Yes	
2327	[redacted]										
2328	TRANSCEIVERS FOR A WIRELESS COMMUNICATION SYSTEM MOBILE DEVICE AND METHOD FOR IMPROVING TRANSCEIVER LOOPBACK CALIBRATION ACCURACY			PCT	APP-Pending	WO	PCT/US2017/047498		WO2019/035841		
2329	APPARATUS AND METHOD FOR DRIVING A DIGITAL-TO-ANALOG CONVERTER AND APPARATUSES AND METHODS FOR GENERATING A RADIO FREQUENCY SIGNAL			PCT	APP-Pending	WO	PCT/US2017/063170		WO2019/103747		
2330	TELEPHONE CALL PROCEDURES FOR POWER EFFICIENT MOBILE TERMINATING PACKET SWITCHED SERVICES			NP	PAT-Active	US	15/692477	10455405	US-2019-0069161-A1		
2331	Power efficient DC-offset mitigation method for bandwidth limited eMTC cellular radio devices			EPA	APP-Pending	EP	17194013.3		3462696		
2332	COMMUNICATION DEVICE AND METHOD FOR RADIO FREQUENCY COMMUNICATION			PCT	APP-Pending	WO	PCT/US2018/048209		WO2019/067135		
2333	DEVICES AND METHODS FOR NORMAL AND ENHANCED COVERAGE COMPATABILITY			NP	APP-Pending	US	15/718048		US-2019-0098564-A1		
2334	Method of Beam-Estimation-aided Fast Beam Acquisition in Massive MIMO System			PCT	APP-Pending	WO	PCT/CN2017/103397		WO2019/056382		
2335	NETWORK CONTROLLER AND METHOD FOR CONTROLLING A COMMUNICATION			NP	APP-Pending	US	15/709205		US-2019-0081690-A1		
2336	Access Point Device and Techniques for Controlling a Decentralized Wireless Network			EPA	APP-Pending	EP	17194181.9		3462808		
2337	MULTIUSER UPLINK POWER CONTROL WITH USER GROUPING			NP	PAT-Active	US	15/798165	10334534	US-2019-0090200-A1		
2338	MULTIUSER UPLINK POWER CONTROL WITH USER GROUPING			PCT	APP-Pending	WO	PCT/US2018/041724		WO2019/060022		
2339	INTERFERENCE MEASUREMENTS AND CHANNEL STATE INFORMATION (CSI) FEEDBACK IN A MASSIVE MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) SYSTEM			EPT	APP-Pending	EP	17735295.2		3476056	Yes	
2340	DITHERING FOR SPUR REDUCTION IN LOCAL OSCILLATOR GENERATION			PCT	APP-Pending	WO	PCT/US2017/051058		WO2019/054981		
2341	DIGITAL PREDISTORTION OF SIGNALS			PCT	APP-Pending	WO	PCT/US2017/051053		WO2019/054980		
2342	CONTROL SIGNALING FOR USER EQUIPMENT TRANSMISSION BEAMFORMING			PCT	APP-Pending	CN	201780093989.1		109417822	Yes	
2343	SYSTEM AND METHOD FOR CONFIRMATION OF BEAM SWITCHING			PCT	APP-Pending	CN	201780041361.7		109417815	Yes	
2344	[redacted]										
2345	TXOP WITH CONTINUED LBT AFTER A PAUSE			PCT	APP-Closed	WO	PCT/US2017/051080		WO2018/160719	Yes	
2346	TXOP WITH CONTINUED LBT AFTER A PAUSE			PCT	APP-Pending	CN	201780087696.8		110393036		
2347	[redacted]										
2348	TXOP WITH CONTINUED LBT AFTER A PAUSE			PCT	APP-Pending	US	16/489722		US 2020-0245355 A1	Yes	
2349	SYSTEMS AND METHODS FOR UPLINK TRANSMISSION POWER CONTROL			PCT	APP-Pending	US	16/323475		US-2019-0174423-A1	Yes	
2350	SYSTEMS AND METHODS FOR UPLINK TRANSMISSION POWER CONTROL			CNT	APP-Pending	US	16/807952		US-2019-0357151-A1	Yes	
2351	INTERFERENCE MITIGATION AND MULTI-MOMENT FILTERING			PCT	APP-Pending	WO	PCT/US2017/053865		WO2019/066834		
2352	MID POWER MODE FOR AN OSCILLATOR			PCT	APP-Pending	WO	PCT/US2017/053918		WO2019/066842		
2353	[redacted]										
2354	DEVICES AND METHODS FOR POWER ALLOCATION			NP	APP-Pending	US	15/719685		US-2019-0104480-A1		
2355	DEVICES AND METHODS FOR POWER ALLOCATION			PCT	APP-Pending	WO	PCT/US2018/048210		WO2019/067136		
2356	ANTENNA ARRANGEMENT FOR WIRELESS VIRTUAL-REALITY HEADSET			PCT	APP-Pending	US	16/325601		US-2019-0214709-A1		
2357	DEVICES AND METHODS FOR RESOURCE SELECTION IN WIRELESS COMMUNICATIONS			NP	PAT-Active	US	15/719598	10455588	US-2019-0104512-A1		
2358	MODULAR HARDWARE TRACKER			PCT	APP-Pending	WO	PCT/US2017/054411		WO2019/066925		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2359	SYSTEMS METHODS AND DEVICES FOR HANDLING STICKINESS OF UE-SPECIFIC RAN-CN ASSOCIATION	[redacted]		EPT	APP-Pending	EP	178082442		3535996	Yes	
2360	Techniques for Controlling Communication Networks	[redacted]		EPA	APP-Pending	EP	171941701		3462794		
2361	Techniques for Controlling Communication Networks	[redacted]		PCT	APP-Pending	WO	PCT/US2018/047924		WO2019/067121		
2362	Temperature to Frequency Conversion Sharing of Learned Information between Subsystems	[redacted]		EPA	APP-Pending	EP	172110462		3506580		
2363	COMMUNICATION DEVICE AND METHOD FOR DETERMINING A FREQUENCY OFFSET	[redacted]		PCT	APP-Pending	WO	PCT/US2018/061161		WO2019/133151		
2364	UE CONFIGURED TO SUPPORT UP TO TWO HARQ PROCESSES IN NB-IOT	[redacted]		PCT	APP-Pending	DE	112017004245		112017004245	Yes	
2365	MIMO (MULTIPLE INPUT MULTIPLE OUTPUT) LAYER TRANSMISSION FOR NR (NEW RADIO)	[redacted]		EPT	APP-Pending	EP	177844966		3535881	Yes	
2366	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
2367	ADAPTIVE FILTERING WITH TAP LEAKAGE USING ERROR FILTERING	[redacted]		NP	PAT-Active	US	10/037656	6865588	US-2003-0126170-A1		
2368	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY	[redacted]		NP	PAT-Active	US	09/976200	7039135	US-2003-0072396-A1		
2369	METHOD FOR DISCOVERY AND ROUTING USING A PRIORI KNOWLEDGE IN THE FORM OF APPLICATION PROGRAMME WITHIN MOBILE AD-HOC NETWORKS	[redacted]		NP	PAT-Active	US	10/035463	7668958	US-2003-0079003-A1		
2370	METHOD FOR DISCOVERY AND ROUTING USING A PRIORI KNOWLEDGE IN THE FORM OF APPLICATION PROGRAMME WITHIN MOBILE AD-HOC NETWORKS	[redacted]		CNT	PAT-Active	US	12/709987	8321587	US-2010-0153562-A1		
2371	METHOD FOR DISCOVERY AND ROUTING USING A PRIORITY KNWLEDGE IN THE FORM OF APPLICATION PROGRAMME WITHIN MOBILE AD-HOC NETWORKS	[redacted]		PCT	PAT-Active	CN	02825404X	ZL028254 04X	1605179		
2372	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK	[redacted]		EPT	PAT-Active	DE	27841683	########	1436949		
2373	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK	[redacted]		EPT	PAT-Active	EP	27841683	1436949	1436949		
2374	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK	[redacted]		EPT	PAT-Active	FR	27841683	1436949	1436949		
2375	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK	[redacted]		EPT	PAT-Active	GB	27841683	1436949	1436949		
2376	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK	[redacted]		EPT	PAT-Active	NL	27841683	1436949	1436949		
2377	METHOD FOR DISCOVERY AND ROUTING USING A PRIORI KNOWLEDGE IN THE FORM OF APPLICATION PROGRAMME WITHIN MOBILE AD-HOC NETWORKS	[redacted]		NP	PAT-Active	TW	91118827	I253821			
2378	METHOD AND APPARATUS FOR FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER	[redacted]		NP	PAT-Active	US	09/947804	6700978	US-2002-0071547-A1		
2379	NETWORK ECHO CANCELLER FOR INTEGRATED TELECOMMUNICATIONS PROCESSING	[redacted]		NP	PAT-Active	US	09/948501	6738358	US-2002-0064139-A1		
2380	PULSE AMPLITUDE MODULATED SYSTEM WITH REDUCED INTERSYMBOL INTERFERENCE	[redacted]		NP	PAT-Active	US	10/261574	7391834	US-2004-0062319-A1		
2381	PULSE AMPLITUDE MODULATED SYSTEM WITH REDUCED INTERSYMBOL INTERFERENCE	[redacted]		CNT	PAT-Active	US	12/077987	7653165	US-2008-0181331-A1		
2382	SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT	[redacted]		NP	PAT-Active	US	09/960886	6928076	US-2002-0054588-A1		
2383	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT	[redacted]		EPT	PAT-Active	DE	27617497	########	1430681		
2384	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT	[redacted]		EPT	PAT-Active	EP	27617497	1430681	1430681		
2385	FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER FOR SPARSE MULTI-PATH CHANNELS	[redacted]		NP	PAT-Active	US	09/947887	6909782	US-2002-0093919-A1		
2386	HIGH ISOLATION LOW LOSS PRINTED BALUN FEED FOR A CROSS DIPOLE STRUCTURE	[redacted]		NP	PAT-Active	US	09/993187	6567056	US-2003-0090430-A1		
2387	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]		NP	PAT-Active	US	10/195783	7324598	US-2004-0008791-A1		
2388	TRANSFERRING MULTIPLE DATA UNITS OVER A WIRELESS COMMUNICATION LINK	[redacted]		NP	PAT-Active	US	10/113039	7376435	US-2003-0186715-A1		
2389	ADAPTIVELY EXTENDING TUNABLE RANGE OF FREQUENCY IN A CLOSED LOOP	[redacted]		NP	PAT-Active	US	10/324686	6885873	US-2004-0119547-A1		
2390	INPUT JITTER ATTENUATION IN A PHASE-LOCKED LOOP	[redacted]		NP	PAT-Active	US	10/206778	6703878	US-2004-0017261-A1		
2391	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]		NP	PAT-Active	US	10/304391	7385926	US-2004-0100981-A1		
2392	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]		NP	PAT-Active	US	10/218117	7010731	US-2004-0034821-A1		
2393	METHOD AND SYSTEM FOR ALLOCATION OF RESOURCES WITHIN WIRELESS SYSTEMS	[redacted]		DIV	PAT-Active	US	11/418623	7447512	US-2006-0205425-A1		
2394	FREQUENCY SELECTIVE SURFACE AND METHOD OF MANUFACTURE	[redacted]		NP	PAT-Active	US	10/328479	6995733	US-2004-0119658-A1		
2395	ON CHIP LOGIC ANALYZER DEBUG BUS	[redacted]		NP	PAT-Active	US	10/334311	6822474	US-2004-0124903-A1		
2396	APPARATUS AND METHOD FOR DATA COMPRESSIBILITY TEST	[redacted]		NP	PAT-Active	US	10/328167	7263233	US-2004-0126026-A1		
2397	REFERENCE IMPEDANCE APPARATUS SYSTEMS AND METHODS	[redacted]		NP	PAT-Active	US	10/336233	6998931	US-2004-0130408-A1		
2398	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS FROM MULTIPLE ANTENNAS	[redacted]		PCT	PAT-Active	CN	2004800183308	ZL200480 0183308	1813423		
2399	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS FROM MULTIPLE ANTENNAS	[redacted]		EPT	PAT-Active	DE	47541115	########	1642402		
2400	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS FROM MULTIPLE ANTENNAS	[redacted]		EPT	PAT-Active	EP	47541115	1642402	1642402		
2401	PROGRAMMABLE GAIN AMPLIFIER WITH SELF-ADJUSTING OFFSET CORRECTION	[redacted]		NP	PAT-Active	US	10/329187	7302246	US-2004-0121735-A1		
2402	TRANSMIT/RECEIVER COMBINER USING SHUNT ADMITTANCE ELEMENTS FOR ISOLATION	[redacted]		NP	PAT-Active	US	10/330386	6798314	US-2004-0124944-A1		
2403	WIRELESS COMMUNICATION DEVICE HAING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]		NP	PAT-Active	US	10/328956	7684776	US-2004-0121750-A1		
2404	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]		PCT	PAT-Active	CN	2003801065569	ZL200380 1065569	1726617		
2405	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]		DIV	PAT-Active	JP	2009-108196	5255511	2009-246980		
2406	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]		DIV	PAT-Active	KR	10-2009-7009323	10-0952147	10-2009-0051130		
2407	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]		NP	PAT-Closed	US	09/364146	6067290		Yes	
2408	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]		PCT	PAT-Active	CN	8133840	ZL008133840	100423601	Yes	
2409	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]		DIV	PAT-Active	CN	2005100035571	ZL200510 0035571		Yes	
2410	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]		PCD	PAT-Active	CN	2011104347506	ZL201110 4347506	102421102	Yes	
2411	SUBSCRIBER UNIT INCORPORATING SPATIAL MULTIPLEXING	[redacted]		CIP	PAT-Closed	US	09/545434	6678253		Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2412	SUBSCRIBER UNIT IN A HYBRID LINK INCORPORATING SPATIAL MULTIPLEXING	[redacted]	[redacted]	DIV	PAT-Closed	US	09/564770	6757265		Yes	
2413	SUBSCRIBER UNIT IN A HYBRID LINK INCORPORATING SPATIAL MULTIPLEXING	[redacted]	[redacted]	DIV	PAT-Active	US	10/322244	7606204	US-2003-0169720-A1	Yes	
2414	SUBSCRIBER UNIT IN A HYBRID LINK INCORPORATING SPATIAL MULTIPLEXING	[redacted]	[redacted]	CNT	PAT-Active	US	10/929015	7773564	US-2005-0025099-A1	Yes	
2415	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	12/823057	8339934	US-2010-0260134-A1	Yes	
2416	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/684010	9137799	US-2013-0163526-A1	Yes	
2417	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/780995	9144074	US-2013-0176966-A1	Yes	
2418	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/781048	9210709	US-2013-0176968-A1	Yes	
2419	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Closed	US	14/952604	9847821	US-2016-0080057-A1	Yes	
2420	DIVERSITY TRANSMITTER BASED ON LINEAR TRANSFORM PROCESSING OF TRANSMITTED INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	09/574498	6442214			
2421	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	09/653060	6937592		Yes	
2422	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	11/101813	7586873	US-2005-0174981-A1	Yes	
2423	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	12/496922	8345637	US-2010-0046429-A1	Yes	
2424	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	12/604350	8428037	US-2010-0142636-A1	Yes	
2425	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/858784	9288800	US-2013-0286962-A1	Yes	
2426	WIRELESS COMMUNICATIONS SYSTEM THAT SUPPORTS MULTIPLE MODES OF OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/066129	9736832	US-2016-0262134-A1	Yes	
2427	MODE SELECTION FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS	[redacted]	[redacted]	NP	PAT-Active	US	09/665149	6760882			
2428	MODE SELECTION FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS	[redacted]	[redacted]	CNT	PAT-Active	US	13/076999	8418033	US-2011-0179336-A1		
2429	SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	CIP	PAT-Active	US	10/072359	6802035	US-2002-0147953-A1		
2430	SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	10/990676	7583609	US-2005-0099975-A1		
2431	SYSTEM AND METHOD FOR DATA TRANSMISSION FROM MULTIPLE WIRELESS BASE TRANSCEIVER STATIONS TO A SUBSCRIBER UNIT	[redacted]	[redacted]	NP	PAT-Active	US	09/708170	6567387			
2432	SYSTEM AND METHOD FOR DATA TRANSMISSION FROM MULTIPLE WIRELESS BASE TRANSCEIVER STATIONS TO A SUBSCRIBER UNIT	[redacted]	[redacted]	CNT	PAT-Active	US	10/389176	6934266	US-2003-0161281-A1		
2433	SYSTEM AND METHOD FOR SYNCHRONIZING DATA TRANSMISSION FROM MULTIPLE WIRELESS BASE TRANSCEIVER STATIONS TO A SUBSCRIBER UNIT	[redacted]	[redacted]	CIP	PAT-Active	US	09/729886	6862272	US-2002-0055356-A1		
2434	SYSTEM AND METHOD FOR SYNCHRONIZING DATA TRANSMISSION FROM MULTIPLE WIRELESS BASE TRANSCEIVER STATIONS TO A SUBSCRIBER UNIT	[redacted]	[redacted]	CNT	PAT-Active	US	10/989909	7397804	US-2005-0157679-A1		
2435	SYSTEM AND METHOD FOR TRANSMIT DIVERSITY BASE UPON TRANSMISSION CHANNEL DELAY SPREAD	[redacted]	[redacted]	NP	PAT-Active	US	09/999438	7336719	US-2003-0099304-A1		
2436	SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	10/189755	6891902	US-2004-0005014-A1		
2437	A METHOD AND SYSTEM FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL BASED UPON A PEAK TO AVERAGE RATIO	[redacted]	[redacted]	PCT	PAT-Active	CN	38157217	ZL038157217	1666437		
2438	A SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	EPT	PAT-Active	DE	37392982	########	1522153		
2439	A SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	EPT	PAT-Active	EP	37392982	1522153	1522153		
2440	INTEGRATED ANTENNA AND PC CARD CARRYING CASE	[redacted]	[redacted]	NP	PAT-Active	US	10/403432	7277738	US-2005-0261027-A1		
2441	APPARATUS AND METHOD TO PROVIDE POWER AMPLIFICATION	[redacted]	[redacted]	NP	PAT-Active	US	10/463725	6952144	US-2004-0251984-A1		
2442	APPARATUS AND METHOD TO PROVIDE POWER AMPLIFICATION	[redacted]	[redacted]	NP	PAT-Active	TW	93115941	I279977	200501555		
2443	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR {VCO}	[redacted]	[redacted]	NP	PAT-Active	US	10/676307	7049898	US-2005-0068117-A1		
2444	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR {VCO}	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800272015	ZL2004800272015	1856936		
2445	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR {VCO}	[redacted]	[redacted]	PCT	PAT-Active	JP	2006-534169	4939942	2007-511113		
2446	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR {VCO}	[redacted]	[redacted]	NP	PAT-Active	TW	93129614	I295124	200516857		
2447	PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	10/815171	7415245	US-2005-0221760-A1		
2448	ULTRAWIDEBAND RADIO FREQUENCY SIGNAL GENERATOR	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800107243	ZL2005800107243	1954509		
2449	ADAPTIVE MULTICARRIER WIRELESS COMMUNICATION SYSTEM APPARATUS AND ASSOCIATED METHODS	[redacted]	[redacted]	NP	PAT-Active	US	10/738689	7286609	US-2005-0031047-A1		
2450	ADAPTIVE BIT LOADING AND POWER ALLOCATION IN A MULTICARRIER WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	47803317		1652317		
2451	ADAPTIVE BIT LOADING AND POWER ALLOCATION IN A MULTICARRIER WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	61060580		1089303		
2452	AN ADAPTIVE MULTICARRIER WIRELESS COMMUNICATION SYSTEM APPARATUS AND ASSOCIATED METHODS	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043240	MY-137504-A			
2453	APPARATUS AND METHOD TO EXTEND COMMUNICATION RANGE	[redacted]	[redacted]	NP	PAT-Active	US	10/646448	7440496	US-2005-0265482-A1		
2454	METHOD AND APPARTUS FOR PATH SEARCHING	[redacted]	[redacted]	NP	PAT-Active	US	10/608129	7324607	US-2004-0266357-A1		
2455	LOW POWER DISPLAY REFRESH	[redacted]	[redacted]	NP	PAT-Active	US	10/407758	7734943	US-2004-0199798-A1		
2456	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	NP	PAT-Active	US	10/664218	7688766	US-2005-0058057-A1	Yes	
2457	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	CNT	PAT-Active	US	12/645914	8218464	US-2010-0135426-A1	Yes	
2458	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	CNT	PAT-Active	US	13/494233	8913533	US-2012-0250778-A1	Yes	
2459	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800265505	ZL2004800265505	1853391	Yes	
2460	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	PCD	PAT-Active	CN	2012101963981	ZL2012101963981	102710403	Yes	
2461	METHOD AND APPARATUS FOR MODULATING A SIGNAL AND STORAGE MEDIUM HAVING STORED THEREON INSTRUCTIONS	[redacted]	[redacted]	NP	PAT-Active	TW	93128045	I281796	200513063	Yes	
2462	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	10/812284	7345989	US-2005-0152328-A1		
2463	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	CN	2004100921703	ZL2004100921703	1677915		
2464	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	57054140	########	1714417		
2465	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	57054140	1714417	1714417		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2466	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	57054140	1714417	1714417		
2467	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	MY	PI20050120	MY-137452-A			
2468	WIRELESS APPARATUS METHOD FOR USE IN IMPLEMENTING ADAPTIVE CHANNELIZATION WIRELESS COMMUNICATION METHOD AND SYSTEM AND ARTICLE COMPRISING A STORAGE MEDIUM HAVING INSTRUCTIONS STORED THEREON	[redacted]	[redacted]	NP	PAT-Active	TW	94100731	I302413	200603588		
2469	TRAINED DATA TRANSMISSION FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	10/719208	7373112	US-2005-0032478-A1		
2470	TRAINED DATA TRANSMISSION FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	US	12/109002	7826798	US-2008-0198760-A1		
2471	TRAINED DATA TRANSMISSION FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	12/894495	8478201	US-2011-0013524-A1		
2472	TRAINED DATA TRANSMISSION FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	13/912802	9992764	US-2013-0336247-A1		
2473	TRAINED DATA TRANSMISSION FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/996061		US-2018-0279263-A1		
2474	SLAVE-LESS EDGE-TRIGGERED FLIP-FLOP	[redacted]	[redacted]	NP	PAT-Active	US	10/616810	6956421			
2475	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	NP	PAT-Active	US	10/636765	7903538	US-2005-0030887-A1		
2476	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800226093	ZL2004800 226093	1833420		
2477	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	PAT-Active	DE	47792262	########	1652360		
2478	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	PAT-Active	EP	47792262	1652360	1652360		
2479	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/745123	8199723	US-2005-0138199-A1	Yes	
2480	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	13/339855	8948139	US-2012-0099576-A1	Yes	
2481	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/600154	9432155	US-2015-0139179-A1	Yes	
2482	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/198328	10098152	US-2016-0309515-A1	Yes	
2483	A METHOD AND SYSTEM FOR COMMUNICATING WITH MULTIPLE MOBILE STATIONS SIMULTANEOUSLY USING SPATIAL-DIVISION MULTIPLE ACCESS	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800387254	ZL2004800 387254	1898910	Yes	
2484	A METHOD AND SYSTEM FOR COMMUNICATING WITH MULITPLE MOBILE STATIONS SIMULTANEOUSLY USING SPATIAL-DIVISION MULTIPLE ACCESS	[redacted]	[redacted]	PCD	APP-Pending	CN	2016108628268		106851851	Yes	
2485	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	48141238	########	1733510	Yes	
2486	WIRELESS ACCES POINT COMMUNICATING WITH MULTIPLE MOBILE STATIONS SIMULTANEOUSLY USING SPATIAL-DIVISION MULTIPLE ACCESS (SDMA)	[redacted]	[redacted]	EPT	PAT-Active	EP	48141238	1733510	1733510	Yes	
2487	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	48141238	1733510	1733510	Yes	
2488	WIRELESS ACCESS POINT COMMUNICATING WITH MULTIPLE MOBILE STATIONS SIMULTANEOUSLY USING SPATIAL-DIVISION MULTIPLE ACCESS (SMDA)	[redacted]	[redacted]	FPR	PAT-Active	HK	61140557	1092625	1092625	Yes	
2489	HIGH EFFICIENCY RF POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	10/688705	6888409	US-2005-0083123-A1		
2490	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	10/685111	7403512	US-2005-0078644-A1		
2491	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	10/654037	7453946	US-2005-0047322-A1		
2492	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	12/245050	8165233	US-2009-0034640-A1		
2493	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	PCT	PAT-Active	CN	200480024882X	ZL2004800 24882X	1846368		
2494	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	DIV	PAT-Active	CN	2011100375066	ZL2011100 375066	102158269		
2495	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	EPT	PAT-Active	EP	47865829	1671396	1671396		
2496	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	101784171	2262127	2262127		
2497	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	101784171	2262127	2262127		
2498	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	EPT	PAT-Active	DE	47865829	1671396	1671396		
2499	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	101784171	2262127	2262127		
2500	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	101784171	2262127	2262127		
2501	MULTI-ELEMENT ANTENNA BEAMFORMING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	101784171	2262127	2262127		
2502	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	EPT	PAT-Active	FR	47865829	1671396	1671396		
2503	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	EPT	PAT-Active	GB	47865829	1671396	1671396		
2504	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	EPT	PAT-Active	NL	47865829	1671396	1671396		
2505	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA	[redacted]	[redacted]	NP	PAT-Active	TW	93126028	I247497	200522565		
2506	FREQUENCY PRESCALER APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/608051	6822491			
2507	SOFT BITS NORMALIZATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/670982	7349495	US-2005-0069057-A1		
2508	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	10/692965	7522928	US-2005-0101359-A1		
2509	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	12/386535	7894838	US-2009-0270040-A1		
2510	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	DE	112004002010 7	#########	112004002010		
2511	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	GB	6100523	2424554	2424554		
2512	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	TW	93132211	I260131	200531463		
2513	APPARATUS AND ASSOCIATED METHODS TO PERFORM INTELLIGENT TRANSMIT POWER CONTROL WITH SUBCARRIER PUNCTURING	[redacted]	[redacted]	NP	PAT-Active	US	10/750561	7245879	US-2005-0032514-A1		
2514	POWER ALLOCATION FOR THROUGHOUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	200480029295X	ZL2004800 29295X	1894917		
2515	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	47803291	1652361	1652361		
2516	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	47803291	1652361	1652361		
2517	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	47803291	1652361	1652361		
2518	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	47803291	1652361	1652361		
2519	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	47803291	1652361	1652361		
2520	POWER ALLOCATION FOR THROUGHPUT ENHANCEMENT IN A MULTICARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	61058316		1085870		
2521	AN APPARATUS AND ASSOCIATED METHODS TO PERFORM INTELLIGENT TRANSMIT POWER CONTROL WITH SUBCARRIER PUNCTURING	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043237	MY-136642-A			
2522	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	10/744318	7039412	US-2005-0136933-A1		
2523	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800292822	ZL2004800 292822	1864375		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2524	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	CN	2012100568523	ZL2012100568523	102571293		
2525	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	47799457	########	1692825		
2526	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	101858058	########	2273740		
2527	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	47799457	1692825	1692825		
2528	TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	101858058	2273740	2273740		
2529	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	141761973	2804339	2804339		
2530	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	141761973	2804339	2804339		
2531	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	141761973	2804339	2804339		
2532	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	141761973	2804339	2804339		
2533	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	141761973	2804339	2804339		
2534	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	47799457	1692825	1692825		
2535	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	47799457	1692825	1692825		
2536	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	101858058	2273740	2273740		
2537	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	47799457	1692825	1692825		
2538	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	101858058	2273740	2273740		
2539	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	61104702	1094103	1094103		
2540	TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	FPD	PAT-Active	HK	111062910	1152421	1152421		
2541	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IT	47799457	########	1692825		
2542	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	IT	101858058	########	2273740		
2543	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043204	MY-136499-A	PI20043204		
2544	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	101858058	2273740	2273740		
2545	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELS IN A FREQUENCY AGILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SE	47799457	1692825	1692825		
2546	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	NP	PAT-Active	US	10/675892	7321614	US-2005-0068916-A1		
2547	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	CNT	PAT-Active	US	11/847159	7672365	US-2007-0291639-A1		
2548	METHOD AND MOBILE COMMUNICATION STATION FOR COMMUNICATING OFDM SYMBOLS USING TWO OR MORE ANTENNAS	[redacted]	[redacted]	CNT	PAT-Active	US	12/643389	8315321	US-2010-0098181-A1		
2549	BASE STATION AND METHOD FOR CHANNEL CODING AND LINK ADAPTATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/680387	8824582	US-2013-0077661-A1		
2550	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800292964	ZL2004800292964	1864381		
2551	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	DIV	PAT-Active	CN	2010102355984	ZL2010102355984	101895502		
2552	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	DIV	PAT-Active	CN	2013100526046	ZL2013100526046	103152132		
2553	APPARATUS AND METHOD FOR TRANSMIT POWER CONTROL AND SUBCARRIER MODULATION ASSIGNMENT IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	47802913	########	1661349		
2554	APPARATUS AND METHOD FOR TRANSMIT POWER CONTROL AND SUBCARRIER MODULATION ASSIGNMENT IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	47802913	1661349	1661349		
2555	APPARATUS AND METHOD FOR TRANSMIT POWER CONTROL AND SUBCARRIER MODULATION ASSIGNMENT IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	47802913	1661349	1661349		
2556	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043222	MY-139177-A			
2557	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS	[redacted]	[redacted]	NP	PAT-Active	TW	93106939	I264192	200513062		
2558	METHOD AND ADAPTIVE BIT INTERLEAVER FOR WIDEBAND SYSTEMS USING ADAPTIVE BIT LOADING	[redacted]	[redacted]	NP	PAT-Active	US	10/740170	7570695	US-2005-0135493-A1	Yes	
2559	OFDM TRANSMITTER WITH ADAPTIVE BIT INTERLEAVER FOR ADAPTIVE BIT LOADING AND METHOD FOR OFDM COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	12/492466	8218674	US-2009-0257454-A1	Yes	
2560	OFDM TRANSMITTER WITH VARIABLE CODE BLOCK INTERLEAVER AND METHOD FOR OFDM COMMUNICATIONS WITH VARIABLE CODE BLOCK SIZES	[redacted]	[redacted]	CNT	PAT-Active	US	13/544120	9166741	US-2012-0275539-A1	Yes	
2561	METHOD AND ADAPTIVE BIT INTERLEAVER FOR WIDEBAND SYSTEMS USING ADAPTIVE BIT LOADING	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800360463	ZL2004800360463	1890936	Yes	
2562	METHOD AND ADAPTIVE BIT INTERLEAVER FOR WIDEBAND SYSTEMS USING ADAPTIVE BIT LOADING	[redacted]	[redacted]	DIV	PAT-Active	CN	2011102890019	ZL2011102890019	102340376	Yes	
2563	METHOD AND ADAPTIVE BIT INTERLEAVER FOR WIDEBAND SYSTEMS USING ADAPTIVE BIT LOADING	[redacted]	[redacted]	NP	PAT-Active	TW	93137177	I318826	200525900	Yes	
2564	SYSTEMS AND METHODS FOR ADAPTIVE BIT LOADING IN A MULTIPLE ANTENNA ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/750587	7394858	US-2005-0147076-A1	Yes	
2565	SYSTEMS AND METHODS FOR ADAPTIVE BIT LOADING IN A MULTIPLE ANTENNA ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	12/118838	7738579	US-2008-0253471-A1	Yes	
2566	MIMO TRANSMITTER AND METHOD FOR TRANSMITTING AN OFDM SYMBOL IN ACCORDANCE WITH AN IEEE 80211 COMMUNICATION STANDARD OVER A PLURALITY OF SPATIAL CHANNELS	[redacted]	[redacted]	CNT	PAT-Active	US	12/482671	7822135	US-2009-0252257-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2567	MIMO TRANSMITTER AND METHOD FOR TRANSMITTING A GROUP OF SEQUENTIAL OFDM SYMBOLS IN ACCORDANCE WITH AN IEEE 80216 COMMUNICATION STANDARD	[redacted]	[redacted]	CNT	PAT-Active	US	12/482689	7885346	US-2009-0245405-A1	Yes	
2568	MIMO TRANSMITTER FOR TRANSMITTING A GROUP OF SEQUENTIAL OFDM SYMBOLS USING A PLURALITY OF ANTENNAS	[redacted]	[redacted]	CNT	PAT-Active	US	12/757117	8396147	US-2010-0195545-A1	Yes	
2569	OFDM TRANSMITTER AND METHOD FOR MULTI-USER MIMO TRANSMISSIONS	[redacted]	[redacted]	CNT	PAT-Active	US	12/982161	8019010	US-2011-0096856-A1	Yes	
2570	MIMO TRANSMITTER AND METHOD FOR TRANSMITTING OFDM SYMBOLS	[redacted]	[redacted]	CNT	PAT-Active	US	13/489595	8705645	US-2012-0236911-A1	Yes	
2571	MULTICARRIER MIMO TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800292979	ZL2004800 292979	1864360	Yes	
2572	MULTICARRIER MIMO TRANSMISSION	[redacted]	[redacted]	DIV	PAT-Active	CN	2010102517974	ZL2010102 517974	101888365	Yes	
2573	MULTICARRIER MIMO TRANSMISSION	[redacted]	[redacted]	PCD	PAT-Active	CN	2010102518093	ZL2010102 518093	101895509	Yes	
2574	MULTIPLE-INPUT MULTIPLE-OUTPUT(MIMO) TRANSMITTER APPARATUS SYSTEM AND METHOD OF COMMUNICATING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	CN	2013100546660	ZL2013100 546660	103178884	Yes	
2575	SYSTEMS AND METHODS FOR ADAPTIVE BIT LOADING IN A MULTIPLE ANTENNA ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	93123648	I311010	200511753	Yes	
2576	TRANSMITTER AND METHOD THEREON	[redacted]	[redacted]	NP	PAT-Active	US	10/745623	6946981			
2577	APPARATUS AND METHOD OF MULTI-USER DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	10/748180	7340014	US-2005-0141653-A1		
2578	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT	[redacted]	[redacted]	CNT	PAT-Active	US	11/923631	7567612	US-2008-0181162-A1		
2579	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT	[redacted]	[redacted]	DIV	PAT-Active	CN	2013100623578	ZL2013100 623578	103227700		
2580	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043197	MY-163943-A			
2581	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	10/689151	7460494	US-2005-0041611-A1		
2582	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	12/324580	8565253	US-2009-0147879-A1		
2583	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800283819	ZL2004800 283819	1860714		
2584	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	CN	2011101114646	ZL2011101 114646	102176691		
2585	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	47802988		1661281		
2586	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2006-523242	4358859	2007-502071		
2587	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2006-7002742	10-0791311	10-2006-0029193		
2588	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	MY	PI20043241	MY-148413-A			
2589	TRANSMISSION OF DATA WITH FEEDBACK TO THE TRANSMITTER IN A WIRELESS LOCAL AREA NETWORK OR THE LIKE	[redacted]	[redacted]	NP	PAT-Active	US	10/738522	7515541	US-2005-0030897-A1		
2590	TRANSMISSION OF DATA WITH FEEBACK TO THE TRANSMITTER IN WIRELESS LOCAL AREA NETWORK OR THE LIKE	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800360938	ZL2004800 360938	1890907		
2591	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARTY CHECK CODEWORDS	[redacted]	[redacted]	NP	PAT-Active	US	10/815311	7263651	US-2005-0154958-A1		
2592	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800278257	ZL2004800 278257	1902828		
2593	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	EPT	PAT-Active	EP	47803283	1656737	1656737		
2594	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	EPT	PAT-Active	DE	47803283	1656737	1656737		
2595	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	EPT	PAT-Active	FR	47803283	1656737	1656737		
2596	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	EPT	PAT-Active	GB	47803283	1656737	1656737		
2597	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	EPT	PAT-Active	NL	47803283	1656737	1656737		
2598	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	NP	PAT-Active	TW	93123643	I272777	200511736		
2599	VOLTAGE CONTROLLED OSCILLATOR APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/729629	7034623	US-2005-0122180-A1		
2600	METHOD APPARATUS AND SYSTEM TO MANAGE DISTRIBUTED CHANNEL ACCESS WITH TIME RESERVATION	[redacted]	[redacted]	NP	PAT-Active	US	10/745898	8625497	US-2005-0147055-A1		
2601	METHOD APPARATUS AND SYSTEM TO MANAGE DISTRIBUTED CHANNEL ACCESS WITH TIME RESERVATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/097307	9332564	US-2014-0092843-A1		
2602	METHOD APPARATUS AND SYSTEM TO MANAGE DISTRIBUTED CHANNEL ACCESS WITH TIME RESERVATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/144532	9775173	US-2016-0338100-A1		
2603	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/814095	7289585	US-2005-0152484-A1		
2604	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	57224248	1714454	1714454		
2605	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	57224248	1714454	1714454		
2606	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	57224248	1714454	1714454		
2607	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	57224248	1714454	1714454		
2608	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	NP	PAT-Active	US	10/814113	7315577	US-2005-0058212-A1		
2609	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800263177	ZL2004800 263177	1849769		
2610	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	NP	PAT-Active	TW	93127726	I264891	200524330		
2611	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	10/815035	7333556	US-2005-0152465-A1		
2612	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800052679	ZL2005800 052679	1922841		
2613	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EP	57055436	1704693	1704693		
2614	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	DE	57055436	1704693	1704693		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2615	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	FR	57055436	1704693	1704693		
2616	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GB	57055436	1704693	1704693		
2617	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	NP	PAT-Active	US	10/880158	7440510	US-2005-0058217-A1		
2618	CIRCUIT TO ADD AND SUBSTRACT TWO DIFFERENTIAL SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	10/734122	7299012	US-2005-0130600-A1		
2619	LOOP FILTER WITH ACTIVE CAPACITOR AND METHOD FOR GENERATING A REFERENCE	[redacted]	[redacted]	NP	PAT-Active	US	10/726166	7005929	US-2005-0116782-A1		
2620	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	CIP	PAT-Active	US	10/969689	8699508	US-2005-0135410-A1		
2621	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	NP	PAT-Active	US	10/759473	7408908	US-2005-0157734-A1		
2622	AMPLIFIER DISTORTION MANAGEMENT APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	10/786677	7250815	US-2005-0184802-A1		
2623	SYSTEMS AND METHODS TO CONVEY ADDITIONAL SIGNALING INFORMATION IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	10/806893	7423968	US-2005-0152357-A1		
2624	CHANNEL SPECIFICATION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	10/806898	7440423	US-2005-0152299-A1		
2625	CHANNEL SPECIFICATION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	EPT	PAT-Active	DE	57115727	########	1712102		
2626	CHANNEL SPECIFICATION APPARATUS AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	EP	57115727	1712102	1712102		
2627	CHANNEL SPECIFICATION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	EPT	PAT-Active	GB	57115727	1712102	1712102		
2628	CHANNEL SPECIFICATION APPARATUS AND METHOD	[redacted]	[redacted]	FPR	PAT-Active	HK	61138025	1097382	1097382		
2629	BANDPASS AMPLIFIER METHOD AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/813992	7519344	US-2005-0218974-A1		
2630	ACCESS POINT HAVING AT LEAST ONE OR MORE CONFIGURABLE RADIOS	[redacted]	[redacted]	NP	PAT-Active	US	10/812648	7817579	US-2005-0213516-A1		
2631	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	NP	PAT-Active	US	10/822829	7684507	US-2005-0226343-A1	Yes	
2632	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	CNT	PAT-Active	US	12/542941	8503562	US-2009-0304105-A1	Yes	
2633	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	CNT	PAT-Active	US	12/542949	7929634	US-2009-0304106-A1	Yes	
2634	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	CNT	PAT-Active	US	13/089043	8755452	US-2011-0194640-A1	Yes	
2635	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800178427	ZL2005800 178427	1961519	Yes	
2636	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	PCD	PAT-Active	CN	2013105214341	ZL2013105 214341	103560868	Yes	
2637	ADAPTIVE DIVERSITY / MULTIPLEXING MIMO WIRELESS LAN SYSTEM	[redacted]	[redacted]	NP	PAT-Active	MY	PI20051323	MY-144085-A		Yes	
2638	ADAPTIVE DIVERSITY / MULTIPLEXING MIMO WIRELESS LAN SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	94109287	I323577	200537843	Yes	
2639	METHOD AND APPARATUS FOR DECODING FORWARD ERROR CORRECTION CODES	[redacted]	[redacted]	NP	PAT-Active	US	10/798643	7395495	US-2005-0154957-A1		
2640	METHOD AND APPARATUS FOR DECODING FORWARD ERROR CORRECTION CODES	[redacted]	[redacted]	NP	PAT-Active	MY	PI20050099	MY-141800-A			
2641	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	10/796756	7583975	US-2005-0197147-A1		
2642	CALIBRATION AND TESTING ARCHITECTURE FOR RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	10/812834	7409189	US-2005-0221763-A1		
2643	REMOTE OPERATIONS USING WIRELESS PERSONAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	10/814047	7590101	US-2005-0226178-A1		
2644	POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN	[redacted]	[redacted]	NP	PAT-Active	US	10/881731	7336716	US-2006-0008028-A1		
2645	POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN	[redacted]	[redacted]	PCT	PAT-Active	JP	2007-516851	4846715	2008-503169		
2646	MULTI-THRESHOLD RELIABILITY DECODING OF LOW-DENSITY PARITY CHECK CODES	[redacted]	[redacted]	CNT	PAT-Active	US	11/466292	7716561	US-2007-0011586-A1		
2647	SIGNAL GENERATION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	10/815030	7570702	US-2005-0220214-A1		
2648	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	FPR	PAT-Active	HK	61138016	1097367	1097367		
2649	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	MY	PI20050123	MY-144415-A			
2650	RECONFIGURABLE VITERBI/TURBO DECODER	[redacted]	[redacted]	NP	PAT-Active	US	10/936372	7536630	US-2005-0034051-A1		
2651	MINIATURIZED PLANAR MICROSTRIP BALUN	[redacted]	[redacted]	NP	PAT-Active	US	10/880968	6998930	US-2006-0001502-A1		
2652	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MULTIPLE INPUT MULTIPLE OUTPUT (MIMO)	[redacted]	[redacted]	NP	PAT-Active	US	10/954582	7609780	US-2006-0071807-A1		
2653	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MULTIPLE INPUT MULTIPLE OUTPUT (MIMO)	[redacted]	[redacted]	CNT	PAT-Active	US	12/584637	8204145	US-2010-0046665-A1		
2654	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING	[redacted]	[redacted]	NP	PAT-Active	US	10/862535	7570953	US-2005-0152466-A1		
2655	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800182583	ZL2005800 182583	1965554		
2656	PRACTICAL UNIFORM BIT LOADING WITH SUBCARRIER PUNCTURING (UBLWSP) SCHEME FOR FAST LINK ADAPTATION IN OFDM COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	PAT-Active	HK	71082770	1100471	1100471		
2657	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING	[redacted]	[redacted]	NP	PAT-Active	TW	94116695	I285479	200620863		
2658	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	NP	PAT-Active	US	11/018414	7474608	US-2005-0174927-A1		
2659	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	12/319191	9001636	US-2009-0122694-A1		
2660	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	13/929142	9270429	US-2013-0290807-A1		
2661	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/075004	9379863	US-2014-0064223-A1		
2662	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/190594	9954716	US-2017-0118061-A1		
2663	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/623201	10177956	US-2017-0288934-A1		
2664	METHOD AND APPARATUS FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	57054132	1712043	1712043		
2665	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	CH	90004045	2056637	2056637		
2666	METHOD AND APPARATUS FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800079169	ZL2005800 079169	1930825		
2667	METHOD AND APPARATUS FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	PCD	PAT-Active	CN	2011100720899	ZL2011100 720899	102164107		
2668	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	57054132	########	1712043		
2669	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	DE	90004045	########	2056637		

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2670	METHOD AND APPARATUS FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	DK	57054132	1712043	1712043		
2671	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	DK	90004045	2056637	2056637		
2672	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	57054132	1712043	1712043		
2673	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	EP	90004045	2056637	2056637		
2674	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	57054132	1712043	1712043		
2675	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	ES	90004045	2056637	2056637		
2676	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	57054132	1712043	1712043		
2677	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	FR	90004045	2056637	2056637		
2678	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	57054132	1712043	1712043		
2679	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	GB	90004045	2056637	2056637		
2680	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	FPD	PAT-Active	HK	121018273	1161942	1161942		
2681	METHOD TO DISTINGUISH 80211N (HIGH THROUGHPUT) PACKET STRUCTURE FROM LEGACY 80211 PACKET STRUCTURE	[redacted]	[redacted]	EPT	PAT-Active	IE	57054132	1712043	1712043		
2682	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	IE	90004045	2056637	2056637		
2683	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	IT	57054132	########	1712043		
2684	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	IT	90004045	########	2056637		
2685	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	MP	PAT-Active	MY	PI20055395	MY-142360-A			
2686	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	57054132	1712043	1712043		
2687	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	NL	90004045	2056637	2056637		
2688	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	SE	57054132	1712043	1712043		
2689	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	SE	90004045	2056637	2056637		
2690	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	EPT	PAT-Active	TR	57054132	1712043	1712043		
2691	TRANSMITTING AND RECEIVING DATA PACKETS BETWEEN LEGACY AND NEW GENERATION WIRELESS NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	TR	90004045	2056637	2056637		
2692	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	NP	PAT-Active	TW	94100725	I272789	200533105		
2695	LINK ADAPTION BASED MMSE EQUALIZATION ELIMINATES NOISE POWER ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	US	10/977004	7583608	US-2006-0088086-A1		
2694	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	10/883276	7408999	US-2005-0243780-A1		
2695	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	CNT	PAT-Active	US	12/185138	8254354	US-2008-0316987-A1		
2696	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	CNT	PAT-Active	US	12/653529	8457087	US-2010-0097959-A1		
2697	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800206753	ZL200580020 6753	1973491		
2698	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	DE	57607095	########	1880509		
2699	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	EP	57607095	1880509	1880509		
2700	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	GB	57607095	1880509	1880509		
2701	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	TW	94115095	I320276	200540180		
2702	WIRELESS APPARATUS HAVING MULTIPLE COORDINATED TRANCEIVERS FOR MULTIPLE WIRELESS COMMUNICATION PROTOCOLS	[redacted]	[redacted]	REI	PAT-Closed	US	11/283478	RE43738			
2703	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	CIP	PAT-Closed	US	09/439948	6600726			
2704	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING QUALITY OF SERVICE CONSIDERATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	11/004215	7420936	US-2005-0078616-A1		
2705	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING PROACTIVE REDUCTION OF INTERFERENCE	[redacted]	[redacted]	CIP	PAT-Closed	US	09/560672	6891857			
2706	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	CNT	PAT-Active	US	10/464688	7239615	US-2003-0214961-A1		
2707	WIRELESS APPARATUS INTERFERENCE AVOIDANCE/RESOLUTION METHOD AND APPARATUSES	[redacted]	[redacted]	NP	PAT-Active	US	09/438215	6928368			
2708	GFSK RECEIVER	[redacted]	[redacted]	DIV	PAT-Active	US	10/621056	7239675	US-2004-0013209-A1		
2709	INTERLEAVER	[redacted]	[redacted]	NP	PAT-Active	US	11/093743	7529307	US-2006-0242475-A1		
2710	POWER EFFICIENT SIGNAL ACQUISITION WITH MULTIPLE RECEIVE ANTENNAS	[redacted]	[redacted]	NP	PAT-Active	US	10/955933	7349720	US-2006-0068854-A1		
2711	DIFFERENTIAL CLOCK CORRECTION	[redacted]	[redacted]	NP	PAT-Active	US	11/020884	7265597	US-2006-0132207-A1		
2712	Using the dynamic beacon to enhance power saving capabilities for low power UWB devices	[redacted]	[redacted]	MP	PAT-Active	US	11/025700	7706404	US-2006-0140215-A1		
2713	A METHOD FOR DYNAMIC BEACON TO ENHANCE POWER SAVING CAPABILITIES FOR LOW POWER UWB DEVICES	[redacted]	[redacted]	NP	PAT-Active	MY	PI20055531	MY-142715-A			
2714	WIRELESS DEVICE TO OPERATE IN A NETWORK WIRELESS DEVICE METHOD OF JOINING A PICONET AND METHOD FOR JOINING A NETWORK	[redacted]	[redacted]	MP	PAT-Active	TW	94147009	I304993	200637255		
2715	TRANSMITTING AND PROTECTING LONG FRAMES IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	MP	PAT-Active	US	11/029325	7447185	US-2006-0140172-A1		
2716	APPARATUS AND METHOD FOR VOLTAGE CONVERSION	[redacted]	[redacted]	NP	PAT-Active	US	10/957319	7196555	US-2006-0066361-A1		
2717	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	12/627353	8331872	US-2010-0075710-A1		
2718	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	PCD	PAT-Active	CN	201410064780.2	ZL2014100 64780.2	104378814		
2719	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	FPD	APP-Pending	HK	15107482.3		1206908		
2720	MULTIPLE ANTENNA MULTICARRIER TRANSMITTER AND METHOD FOR ADAPTIVE BEAMFORMING WITH TRANSMIT-POWER NORMALIZATION	[redacted]	[redacted]	NP	PAT-Active	US	11/004720	7822128	US-2006-0120469-A1		
2721	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	10/937097	7362832	US-2006-0092054-A1	Yes	
2722	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK	[redacted]	[redacted]	MP	PAT-Active	TW	94129085	I285482	200623678	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2723	Method and apparatus to provide low cost transmit beamforming for network devices	[redacted]		NP	PAT-Active	US	11/076195	8515359	US-2006-0234645-A1		
2724	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMC	[redacted]		NP	PAT-Active	US	11/024587	7542515	US-2006-0140290-A1		
2725	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMC	[redacted]		CNT	PAT-Active	US	12/820470	7953171	US-2010-0254476-A1		
2726	CALIBRATION IN MIMO SYSTEMS	[redacted]		NP	PAT-Active	US	10/939162	7366245	US-2006-0056532-A1		
2727	INTERPOLATION IN CHANNEL STATE FEEDBACK	[redacted]		NP	PAT-Active	US	10/938421	7539253	US-2006-0056531-A1		
2728	INTERPOLATION IN CHANNEL STATE FEEDBACK	[redacted]		DIV	PAT-Active	US	12/424259	7961802	US-2010-0232527-A1		
2729	INTERPOLATION IN CHANNEL STATE FEEDBACK	[redacted]		NP	PAT-Active	TW	94129084	I285481	200625851		
2730	MULTIPLE INTERMEDIATE FREQUENCIES RECEIVER AND A METHOD THEREOF	[redacted]		NP	PAT-Active	US	11/081535	7398067	US-2006-0211398-A1		
2731	DISTRIBUTED VOICE NETWORK	[redacted]		NP	PAT-Active	US	11/027915	7593390	US-2006-0146797-A1	Yes	
2732	METHOD AND NETWORK ELEMENT FOR ESTABLISHING A IP COMMUNICATIONS SESSION BETWEEN MOBILE COMMUNICATION DEVICES	[redacted]		CNT	PAT-Active	US	13/493084	8605714	US-2012-0250624-A1	Yes	
2733	DISTRIBUTED VOICE NETWORK	[redacted]		PCT	PAT-Active	CN	2005800457603	ZL2005800 457603	101095329	Yes	
2734	A NETWORK ELEMENT FOR ESTABLISHING AN INTERNET-PROTOCOL (IP) COMMUNICATION SESSION AND A CORRESPONDING METHOD	[redacted]		DIV	PAT-Active	CN	2012102778530	ZL2012102 778530	102833232	Yes	
2735	METHOD AND NETWORK ELEMENT FOR VOICE-OVER-IP (VoIP) COMMUNICATIONS IN A MOBILE IP NETWORK	[redacted]		DIV	PAT-Active	US	12/563555	8204044	US-2010-0008345-A1	Yes	
2736	DISTRIBUTED VOICE NETWORK	[redacted]		PCT	PAT-Active	GB	7128143	2437666	2437666	Yes	
2737	Device for a distributed voice network method of conducting a voice-over-IP telephony session machine-accessible medium and system for a distributed	[redacted]		NP	PAT-Active	TW	94147636	I307592	200640207	Yes	
2738	METHOD AND SYSTEM TO SUPPORT FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	10/997336	7369856	US-2006-0111111-A1		
2739	PACKET TRAFFIC MANAGEMENT APPARATUS SYSTEMS AND METHODS	[redacted]		NP	PAT-Active	US	11/082368	7551607	US-2006-0209790-A1		
2740	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]		NP	PAT-Active	US	11/095326	7256740	US-2006-0220961-A1		
2741	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]		CNT	PAT-Active	US	11/782445	7492317	US-2007-0262904-A1		
2742	ON-DIE COUPLED INDUCTOR STRUCTURES FOR IMPROVING QUALITY FACTOR	[redacted]		NP	PAT-Active	US	11/130596	7456720	US-2006-0262573-A1		
2743	METHOD AND SYSTEM FOR MULTICARRIER COMMUNICATION BETWEEN A BASE STATION AND SUBSCRIBERS OF DIFFERENT BANDWIDTHS	[redacted]		PCT	PAT-Active	US	10/572125	7613242	US-2008-0304581-A1		
2744	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]		NP	PAT-Active	US	11/051000	7305240	US-2006-0172742-A1		
2745	LOW NOISE HIGH-LINEARITY RF FRONT END RECEIVER	[redacted]		NP	PAT-Active	US	11/072212	7529529	US-2006-0199562-A1		
2746	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		NP	PAT-Active	US	11/040955	7522555	US-2006-0165008-A1		
2747	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		CNT	PAT-Active	US	12/426716	8396029	US-2009-0257393-A1		
2748	TECHNIQUES FOR BEAMFORMING USING PREDICTED CHANNEL STATE INFORMATION	[redacted]		CNT	PAT-Active	US	12/908637	8442458	US-2011-0032893-A1		
2749	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		CNT	PAT-Active	US	13/893236	9037099	US-2013-0251009-A1		
2750	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		CNT	PAT-Active	US	14/691225	9634742	US-2015-0333806-A1		
2751	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		CNT	PAT-Active	US	15/463461	10056996	US-2018-0041294-A1		
2752	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		PCD	APP-Pending	CN	2015109727923		105356977		
2753	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		PCT	PAT-Active	GB	7130339	2438101	2438101		
2754	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		FPD	APP-Pending	HK	161055488		1217833		
2755	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]		NP	PAT-Active	TW	95101184	I319295	200635400		
2756	BEAMFORMING CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		NP	PAT-Active	US	11/036906	7778826	US-2006-0155533-A1	Yes	
2757	BEAMFORMING CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CNT	PAT-Active	US	12/584009	8428937	US-2009-0326933-A1	Yes	
2758	TECHNIQUES TO GENERATE A PRECODING MATRIX FOR A WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	12/583994	8682656	US-2010-0157921-A1	Yes	
2759	BEAMFORMING CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CNT	PAT-Active	US	12/583960	8417517	US-2010-0067594-A1	Yes	
2760	BEAMFORMING CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CNT	PAT-Active	US	12/583954	8340961	US-2009-0323844-A1	Yes	
2761	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CNT	PAT-Active	US	13/648603	10396868	US-2013-0058204-A1	Yes	
2762	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CNT	PAT-Active	US	13/648585	10389415	US-2013-0033977-A1	Yes	
2763	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		PCT	PAT-Active	CN	2006800076714	ZL2006800 076714	101138168	Yes	
2764	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		PCD	PAT-Active	CN	2014101097748	ZL2014101 097748	103929222	Yes	
2765	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		PCT	PAT-Active	DE	1120060001957	########	112006000195	Yes	
2766	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		PCT	PAT-Active	GB	7130396	2437859	2437859	Yes	
2767	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		NP	PAT-Active	TW	95100643	I315946	200644472	Yes	
2768	BEAMFORMING CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]		CIP	PAT-Active	US	11/059963	7895044	US-2006-0155534-A1	Yes	
2769	TECHNIQUES TO ENHANCE DIVERSITY FOR A WIRELESS SYSTEM	[redacted]		NP	PAT-Active	US	11/095207	7539463	US-2006-0223460-A1	Yes	
2770	TECHNIQUES TO ENHANCE DIVERSITY FOR A WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	12/454726	8060033	US-2010-0041351-A1	Yes	
2771	TECHNIQUES TO ENHANCE DIVERSITY FOR A WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	13/294812	8412129	US-2012-0087398-A1	Yes	
2772	TECHNIQUES TO ENHANCE DIVERSITY FOR A WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	13/611610	8682266	US-2013-0010886-A1	Yes	
2773	SS7 GATEWAY FOR WIRELESS COMMUNICATION NETWORKS	[redacted]		CIP	PAT-Active	US	10/302589	7298751			
2774	WIRELESS COMMUNICATION DEVICE AND METHOD FOR COORDINATED CHANNEL ACCESS WITH REDUCED LATENCY IN A WIRELESS NETWORK	[redacted]		NP	PAT-Active	US	11/172449	7466964	US-2007-0004347-A1		
2775	WIRELESS COMMUNICATION DEVICE AND METHOD FOR REDUCING CARRIER FREQUENCY OFFSETS OVER A SIMULTANEOUS MULTI-USER UPLINK IN A MULTICARRIER COMMUNICATION NETWORK	[redacted]		NP	PAT-Active	US	11/172451	7426199	US-2007-0002800-A1		
2776	APPARATUS AND METHOD REDUCING NON-LINEARITY IN AN OUTPUT SIGNAL OF AN AMPLIFIER DEVICE	[redacted]		NP	PAT-Active	US	11/186296	7288996	US-2007-0018730-A1		
2777	MEDIA DISTRIBUTION SYSTEM	[redacted]		NP	PAT-Active	US	11/167979	7573847	US-2006-0294573-A1		
2778	CONSTRUCTION AND USE OF SHORTENED EG-IDPC CODES	[redacted]		PCT	PAT-Active	US	10/572116	7624334	US-2008-0250304-A1		
2779	TRANSMITTER CONTROL	[redacted]		NP	PAT-Active	US	11/206447	7653147	US-2007-0041470-A1		
2780	METHODS AND APPARATUS WITH LOGIC TO DETERMINE A RELATIVE CHANGE RELATIONSHIP BETWEEN MODEM AND FRAME CLOCKS	[redacted]		NP	PAT-Active	US	11/131660	7577222	US-2006-0262888-A1		
2781	METHODS AND APPARATUS FOR RESOLVING ADDRESS MAPPING ASSOCIATED WITH A WIRELESS MESH NETWORK	[redacted]		NP	PAT-Active	US	11/139265	7623501	US-2006-0268766-A1		
2782	SCALABLE SYSTEM TO ADAPTIVELY TRANSMIT AND RECEIVE INCLUDING ADAPTIVE ANTENNA SIGNAL AND BACK-END PROCESSORS	[redacted]		NP	PAT-Active	US	11/234581	7738585	US-2007-0071118-A1	Yes	
2783	SCALABLE SYSTEM TO ADAPTIVELY TRANSMIT AND RECEIVE INCLUDING ADAPTIVE ANTENNA SIGNAL AND BACK-END PROCESSORS	[redacted]		CNT	PAT-Active	US	13/197752	8306144	US-2011-0286441-A1	Yes	
2784	MULTI-TAP MICROELECTROMECHANICAL INDUCTOR	[redacted]		NP	PAT-Active	US	11/137748	7362203	US-2006-0267717-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2785	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	NP	PAT-Active	US	11/075030	7616704	US-2006-0203935-A1		
2786	MULTICARRIER RECEIVER AND METHOD FOR CARRIER FREQUENCY OFFSET CORRECTION AND CHANNEL ESTIMATION FOR RECEIPT OF SIMULTANEOUS TRANSMISSIONS OVER A MULTI-USER UPLINK	[redacted]	[redacted]	NP	PAT-Active	US	11/171643	7480497	US-2007-0004337-A1		
2787	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	11/131931	7881475	US-2006-0262932-A1		
2788	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	95115876	I336197	200704096		
2789	ORDERED AND DUPLICATE-FREE DELIVERY OF WIRELESS DATA FRAMES	[redacted]	[redacted]	NP	PAT-Active	US	11/129057	7746866	US-2006-0256722-A1		
2790	ORDERED AND DUPLICATE-FREE DELIVERY OF WIRELESS DATA FRAMES	[redacted]	[redacted]	CNT	PAT-Active	US	12/774457	8638797	US-2010-0220658-A1		
2791	ORDERED AND DUPLICATE-FREE DELIVERY OF WIRELESS DATA FRAMES	[redacted]	[redacted]	NP	PAT-Active	TW	95115055	I312250	200707985		
2792	DEVICE SYSTEM AND METHOD OF MULTIPLE ACCESS TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	11/136476	7574214	US-2006-0270416-A1		
2793	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	11/155148	7647508	US-2006-0288204-A1		
2794	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2006800212901	ZL2006800 212901	101199182		
2795	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	DE	1120060015117		112006001511		
2796	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	GB	7246168	2441277	2441277		
2797	COMPACT MULTI-BAND MULTI-PORT ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	11/209218	7289064	US-2007-0052587-A1		
2798	SYSTEM AND METHOD FOR AUTOMATICALLY CONFIGURING AND INTEGRATING A RADIO BASE STATION INTO AN EXISTING WIRELESS CELLULAR COMMUNICATION NETWORK WITH FULL BI-DIRECTIONAL ROAMING AND HANDOVER CAPABILITY	[redacted]	[redacted]	NP	PAT-Active	US	10/913877	7477920	US-2005-0148368-A1		
2799	METHOD AND SCHEME FOR SPACE-TIME CODED COCHANNEL INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	PAT-Active	US	12/088496	8064532	US-2009-0175366-A1		
2800	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	11/208426	7392037	US-2007-0060043-A1		
2801	SINGULAR VALUE DECOMPOSITION BEAMFORMING FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/334329	8483761	US-2007-0167192-A1		
2802	APPARATUS AND METHOD OF CONTROLLING TRANSMISSION IN REVERSE DIRECTION	[redacted]	[redacted]	NP	PAT-Active	US	11/394215	7706397	US-2007-0237169-A1		
2803	APPARATUS AND METHOD OF CONTROLLING TRANSMISSION IN REVERSE DIRECTION	[redacted]	[redacted]	CNT	PAT-Active	US	12/703847	8644293	US-2010-0182990-A1		
2804	APPARATUS AND METHOD OF CONTROLLING TRANSMISSION IN REVERSE DIRECTION	[redacted]	[redacted]	NP	PAT-Active	TW	96110775	I335749	200803378		
2805	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	EP	78124104	2041885	2041885		
2806	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	AT	78124104	2041885	2041885		
2807	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	BE	78124104	2041885	2041885		
2808	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	CH	78124104	2041885	2041885		
2809	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	DE	78124104	2041885	2041885		
2810	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	EE	78124104	2041885	2041885		
2811	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	ES	78124104	2041885	2041885		
2812	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	FR	78124104	2041885	2041885		
2813	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	GB	78124104	2041885	2041885		
2814	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	GR	78124104	2041885	2041885		
2815	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	HU	78124104	2041885	2041885		
2816	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	IE	78124104	2041885	2041885		
2817	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	NL	78124104	2041885	2041885		
2818	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	EPT	PAT-Active	SK	78124104	2041885	2041885		
2819	SLEEP-MODE WIRELESS CELL RESELECTION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	11/551421	7693555	US-2007-0104179-A1		
2820	SLEEP-MODE WIRELESS CELL RESELECTION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	CNT	PAT-Active	US	12/650157	8259634	US-2011-0103279-A1		
2821	COMMUNICATION WITHIN A WIRELESS NETWORK USING MULTIPLE FREQUENCY BANDS	[redacted]	[redacted]	NP	PAT-Active	US	11/394570	7720036	US-2007-0099668-A1		
2822	GENERALIZED MULTI-THRESHOLD DECODER FOR LOW-DENSITY PARITY CHECK CODES	[redacted]	[redacted]	PCT	PAT-Active	DE	1120050037908	########	112005003790		
2823	GENERALIZED MULTI-THRESHOLD DECODER FOR LOW-DENSITY PARITY CHECK CODES	[redacted]	[redacted]	PCT	PAT-Active	US	12/087179	8209579	US-2009-0222711-A1		
2824	UPLINK THROUGHPUT FOR WIRELESS NETWORK INTERFACES	[redacted]	[redacted]	NP	PAT-Active	US	11/267717	7499426	US-2007-0104130-A1		
2825	DYNAMIC PACKET ERROR MANAGEMENT FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	PAT-Active	US	11/267763	7826404	US-2007-0104131-A1		
2826	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/270765	8145243	US-2007-0105567-A1		
2827	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	CN	2015103873733	ZL2015103 873733	105050182		
2828	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	161052098		1217262		
2829	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CIP	PAT-Active	US	11/313532	7672387	US-2007-0149181-A1	Yes	
2830	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CNT	PAT-Active	US	12/715317	8068554	US-2010-0202549-A1	Yes	
2831	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CIP	PAT-Active	US	13/292528	8665981	US-2012-0057643-A1	Yes	
2832	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CNT	PAT-Active	US	14/160870	8934567	US-2014-0146908-A1	Yes	
2833	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CNT	PAT-Active	US	14/594325	9083403	US-2015-0124898-A1	Yes	
2834	METHOD AND APPARATUS FOR PROCESSING A RECEIVED WIRELESS COMMUNICATION SIGNAL IN MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2006800413008	ZL2006800 413008	101300750	Yes	
2835	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	EPT	PAT-Active	DE	68391291	########	1958349	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2836	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	DE	121550594	########	2456091	Yes	
2837	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	EP	68391291	1958349	1958349	Yes	
2838	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	EP	121550594	2456091	2456091	Yes	
2839	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	EP	141691485	2793405	2793405	Yes	
2840	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	AT	141691485	2793405	2793405	Yes	
2841	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	BE	141691485	2793405	2793405	Yes	
2842	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	CH	141691485	2793405	2793405	Yes	
2843	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	DE	141691485	2793405	2793405	Yes	
2844	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	EE	141691485	2793405	2793405	Yes	
2845	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	ES	141691485	2793405	2793405	Yes	
2846	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	FR	141691485	2793405	2793405	Yes	
2847	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	GB	141691485	2793405	2793405	Yes	
2848	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	GR	141691485	2793405	2793405	Yes	
2849	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	HU	141691485	2793405	2793405	Yes	
2850	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	IE	141691485	2793405	2793405	Yes	
2851	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	NL	141691485	2793405	2793405	Yes	
2852	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS	[redacted]		ETD	PAT-Active	SK	141691485	2793405	2793405	Yes	
2853	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	EP	151794823	3038271	3038271	Yes	
2854	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	AT	151794823	3038271	3038271	Yes	
2855	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	BE	151794823	3038271	3038271	Yes	
2856	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	CH	151794823	3038271	3038271	Yes	
2857	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	DE	151794823	3038271	3038271	Yes	
2858	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	EE	151794823	3038271	3038271	Yes	
2859	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	ES	151794823	3038271	3038271	Yes	
2860	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	FR	151794823	3038271	3038271	Yes	
2861	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	GB	151794823	3038271	3038271	Yes	
2862	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	GR	151794823	3038271	3038271	Yes	
2863	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	HU	151794823	3038271	3038271	Yes	
2864	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	IE	151794823	3038271	3038271	Yes	
2865	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	NL	151794823	3038271	3038271	Yes	
2866	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	SK	151794823	3038271	3038271	Yes	
2867	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	ES	68391291	1958349	1958349	Yes	
2868	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	FR	68391291	1958349	1958349	Yes	
2869	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	FR	121550594	2456091	2456091	Yes	
2870	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	GB	68391291	1958349	1958349	Yes	
2871	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	GB	121550594	2456091	2456091	Yes	
2872	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	IT	68391291	########	1958349	Yes	
2873	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		EPT	PAT-Active	NL	68391291	1958349	1958349	Yes	
2874	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		ETD	PAT-Active	NL	121550594	2456091	2456091	Yes	
2875	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		NP	PAT-Active	US	11/292909	8200164	US-2007-0129018-A1	Yes	
2876	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]		CNT	PAT-Active	US	13/535768	8711779	US-2012-0263116-A1	Yes	
2877	PURGING OF AUTHENTICATION KEY CONTEXTS BY BASE STATIONS ON HANDOFF	[redacted]		CNT	PAT-Active	US	12/710325	8126144	US-2010-0150345-A1		
2878	SIGNAL-TO-NOISE RATIO (SNR) DETERMINATION IN THE TIME DOMAIN	[redacted]		NP	PAT-Active	US	11/480103	7484136	US-2008-0022162-A1		
2879	RADIO RECEIVER AND A METHOD THEREOF	[redacted]		NP	PAT-Active	US	11/452330	7653368	US-2007-0291880-A1		
2880	RADIO RECIEIVER AND A METHOD THEREOF	[redacted]		PCT	PAT-Active	CN	2007800216540	ZL2007800 216540	101467357		
2881	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]		EPT	PAT-Active	DE	78120490	########	2033330		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
2882	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	PAT-Active	EP	78120490	2033330	2033330		
2883	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	PAT-Active	NL	78120490	2033330	2033330		
2884	DIFFERENTIAL AMPLIFIER WITH TWO LONG-TAILED PAIRS OF TRANSISTORS	[redacted]	[redacted]	NP	PAT-Active	US	09/526832	6642787			
2885	LOW RETURN LOSS RESISTIVE FEEDBACK AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	11/435397	7423489	US-2007-0268072-A1		
2886	IMPROVEMENTS IN OR RELATING TO DEMODULATOR ALIGNMENT CORRECTION IN TUNERS	[redacted]	[redacted]	NP	PAT-Active	US	09/454642	6567488			
2887	RADIO FREQUENCY TUNER	[redacted]	[redacted]	NP	PAT-Active	US	10/004766	7356321	US-2002-0086654-A1		
2888	CONTROLLABLE ATTENUATOR	[redacted]	[redacted]	NP	PAT-Active	US	10/229906	6683511	US-2003-0071697-A1		
2889	RADIO FREQUENCY TUNER FRONT END AND TUNER	[redacted]	[redacted]	NP	PAT-Active	US	10/247952	7437133	US-2003-0078018-A1		
2890	AMPLIFIER AND TUNER	[redacted]	[redacted]	NP	PAT-Active	US	10/383712	6747512	US-2003-0179038-A1		
2891	DIGITAL TELEVISION TUNER WITH DIGITAL TO ANALOG CONVERTER EMBEDDED IN A CONNECTOR	[redacted]	[redacted]	NP	PAT-Active	US	10/691753	7611382	US-2004-0130662-A1		
2892	MIXER CIRCUIT OFFSET COMPENSATION	[redacted]	[redacted]	NP	PAT-Active	US	10/825601	7012457	US-2005-0001669-A1		
2893	DIGITAL TELEVISION DISPLAY CONTROL APPARATUS AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	10/825588	7295249	US-2004-0263690-A1		
2894	VARIABLE CAPACITANCE CIRCUIT ARRANGEMENT	[redacted]	[redacted]	DIV	PAT-Active	US	11/545940	7358824	US-2007-0030086-A1		
2895	VARIABLE CAPACITANCE CIRCUIT ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	10/989897	7209016	US-2005-0134395-A1		
2896	CIRCUIT ARRANGEMENT	[redacted]	[redacted]	DIV	PAT-Active	US	11/545987	7411469	US-2007-0057744-A1		
2897	COOPERATIVE INTER-CARRIER CHANNEL CODING APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	11/400757	7616697	US-2007-0237251-A1		
2898	GERAN TRANSCEIVER AND METHOD FOR COOPERATIVE CHANNEL ENCODING ACROSS MULTIPLE GERAN TONAL CARRIERS	[redacted]	[redacted]	CNT	PAT-Active	US	12/563267	8194769	US-2010-0008408-A1		
2899	MULTI-BAND DIELECTRIC RESONATOR ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	11/464774	7710325	US-2008-0042903-A1		
2900	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/617313	7818013	US-2007-0254601-A1	Yes	
2901	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	12/882957	8229452	US-2011-0002372-A1	Yes	
2902	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	13/543371	8611918	US-2012-0275497-A1	Yes	
2903	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/108207	9379875	US-2014-0185542-A1	Yes	
2904	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/169247	10320451	US-2016-0277080-A1	Yes	
2905	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2007800156200	ZL2007800 156200	101432995	Yes	
2906	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	CN	2015101755130	ZL2015101 755130	104753650	Yes	
2907	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	CN	2016111285206		106899336	Yes	
2908	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	171137684		1240420	Yes	
2909	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	77616498	2020099	2020099	Yes	
2910	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	77616498	2020099	2020099	Yes	
2911	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	77616498	2020099	2020099	Yes	
2912	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	77616498	2020099	2020099	Yes	
2913	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	ETD	APP-Pending	EP	151606167		2999143	Yes	
2914	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	77616498	2020099	2020099	Yes	
2915	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	77616498	2020099	2020099	Yes	
2916	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	77616498	2020099	2020099	Yes	
2917	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	77616498	2020099	2020099	Yes	
2918	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	77616498	2020099	2020099	Yes	
2919	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	77616498	2020099	2020099	Yes	
2920	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	77616498	2020099	2020099	Yes	
2921	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IE	77616498	2020099	2020099	Yes	
2922	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	77616498	2020099	2020099	Yes	
2923	METHOD AND APPARATUS FOR DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	77616498	2020099	2020099	Yes	
2924	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	151128909		1212122	Yes	
2925	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2009-510012	5383482	2009-536004	Yes	
2926	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	JP	2012-210604	5551219	2013-048441	Yes	
2927	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	JP	2014-104931	6457741	2014-195306	Yes	
2928	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	JP	2015-071652	6035370	2015-156691	Yes	
2929	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	NP	PAT-Active	US	11/617586	7830977	US-2007-0254603-A1	Yes	
2930	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	AT	77616670	2020093	2020093	Yes	
2931	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	CNT	PAT-Active	US	12/871361	8488709	US-2011-0009076-A1	Yes	
2932	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/205589	8422583	US-2011-0294438-A1	Yes	

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2933	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	PCT	PAT-Active	CN	200780015662.4	ZL200780015662.4	101432989	Yes	
2934	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	DIV	PAT-Active	CN	201310120464.3	ZL201310120464.1	103152092	Yes	
2935	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	DE	776166703	88888888	2020093	Yes	
2936	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	EE	77616670	2020093	2020093	Yes	
2937	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	EP	77616670	2020093	2020093	Yes	
2938	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	ES	77616670	2020093	2020093	Yes	
2939	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	FR	77616670	2020093	2020093	Yes	
2940	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	GB	77616670	2020093	2020093	Yes	
2941	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	GR	77616670	2020093	2020093	Yes	
2942	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	HU	77616670	2020093	2020093	Yes	
2943	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	NL	77616670	2020093	2020093	Yes	
2944	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	EPT	PAT-Active	SK	77616670	2020093	2020093	Yes	
2945	SYSTEMS AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	11/832129	8098689	US-2007-0264941-A1		
2946	SYSTEMS AND METHODS FACILITATING HIGH THROUGHPUT CONTROL IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	13/211303	8189619	US-2011-0299517-A1		
2947	SYSTEMS AND METHODS FACILITATING HIGH THROUGHPUT CONTROL IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	13/463246	8798098	US-2013-0048703-A1		
2948	SYSTEMS AND METHODS FACILITATING HIGH THROUGHPUT CONTROL IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/304883	9706418	US-2014-0362791-A1		
2949	SYSTEMS AND METHODS FACILITATING HIGH THROUGHPUT CONTROL IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Pending	US	15/645746		US-2017-0318481-A1		
2950	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	200780017022.7	ZL200780017022.7	101448614		
2951	SYSTEM AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	77835387	88888888	2025074		
2952	SYSTEMS AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	77835387	2025074	2025074		
2953	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	EP	161610795	3051714	3051714		
2954	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	APP-Pending	EP	17181540		3249832		
2955	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	DE	161610795	3051714	3051714		
2956	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	FR	161610795	3051714	3051714		
2957	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	GB	161610795	3051714	3051714		
2958	SYSTEM AND METHODS FOR FRAME TUNNELLING WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	NL	161610795	3051714	3051714		
2959	SYSTEM AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	77835387	2025074	2025074		
2960	SYSTEM AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	77835387	2025074	2025074		
2961	SYSTEM AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	77835387	2025074	2025074		
2962	QUALITY OF SERVICE RESOURCE NEGOTIATION	[redacted]	[redacted]	NP	PAT-Active	US	11/862657	7911987	US-2008-0031204-A1	Yes	
2963	QUALITY OF SERVICE RESOURCE NEGOTIATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/011821	8094612	US-2011-0110222-A1	Yes	
2964	QUALITY OF SERVICE RESOURCE NEGOTIATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/330612	8331293	US-2012-0087344-A1	Yes	
2965	QUALITY OF SERVICE RESOURCE NEGOTIATION	[redacted]	[redacted]	NP	PAT-Active	TW	96115429	I360356	200807983	Yes	
2966	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	NP	PAT-Active	US	11/819455	7933594	US-2007-0268863-A1		
2967	SYSTEM AND METHOD FOR RELOCATING A FOREIGN AGENT FOR AN IDLE MODE MOBILE STATION IN A PROXY MOBILE INTERNET PROTOCOL ENABLED ACCESS SERVICE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	12/615378	8126486	US-2010-0058134-A1		
2968	OPTIMIZING IDLE MODE AND PAGING OPERATIONS FOR PROXY MOBILE IP BASED BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2009-511220	4897044	2009-538060		
2969	Wireless access network and method for allocating data subcarriers within a downlink subframe based on grouping of user stations	[redacted]	[redacted]	NP	PAT-Active	US	11/687353	8131308	US-2007-0223440-A1	Yes	
2970	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	AT	77588143	1997251	1997251	Yes	
2971	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	BE	77588143	1997251	1997251	Yes	
2972	BASE STATION AND METHOD FOR RESOURCE ALLOCATION USING LOCALIZED AND DISTRIBUTED RESOURCE BLOCKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/490762	8301155	US-2012-0147846-A1	Yes	
2973	BASE STATION AND METHOD FOR RESOURCE ALLOCATION USING LOCALIZED AND DISTRIBUTED RESOURCE BLOCKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/662844	9167571	US-2013-0286999-A1	Yes	
2974	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	CH	77588143	1997251	1997251	Yes	
2975	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	PCT	PAT-Active	CN	200780009924.8	ZL200780009924.6	101405973	Yes	
2976	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	DIV	PAT-Active	CN	201310027358.9	ZL201310027358.3	103220808	Yes	
2977	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	DE	77588143	1997251	1997251	Yes	
2978	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	EE	77588143	1997251	1997251	Yes	

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2979	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	EP	77588143	1997251	1997251	Yes	
2980	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	ES	77588143	1997251	1997251	Yes	
2981	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	FR	77588143	1997251	1997251	Yes	
2982	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	GB	77588143	1997251	1997251	Yes	
2983	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	GR	77588143	1997251	1997251	Yes	
2984	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	IE	77588143	1997251	1997251	Yes	
2985	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	PAT-Active	NL	77588143	1997251	1997251	Yes	
2986	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCEY RESOURCES	[redacted]	[redacted]	NP	PAT-Active	TW	96109362	I376111	200812272	Yes	
2987	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	NP	PAT-Active	US	11/618122	7649955	US-2007-0226287-A1		
2988	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	200780009980X	ZL200780009980X	101405955		
2989	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	NP	PAT-Active	US	11/457011	7570962	US-2008-0014960-A1		
2990	WIMAX BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION IN A WIMAX NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	12/507634	8340693	US-2009-0280836-A1		
2991	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	PCT	PAT-Active	CN	2007800263698	ZL200780026369.8	101491148		
2992	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	EPT	PAT-Active	DE	78126398	########	2044732		
2993	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	EPT	PAT-Active	EP	78126398	2044732	2044732		
2994	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	EPT	PAT-Active	FR	78126398	2044732	2044732		
2995	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	EPT	PAT-Active	GB	78126398	2044732	2044732		
2996	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2009-7002637	10-1086126	10-2009-0042246		
2997	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	EPT	PAT-Active	NL	78126398	2044732	2044732		
2998	TRANSMISSION POWER NORMALIZATION	[redacted]	[redacted]	NP	PAT-Active	US	11/540225	7620416	US-2008-0081654-A1		
2999	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/613983	8462758	US-2008-0153506-A1	Yes	
3000	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	13/757025	9066360	US-2013-0136026-A1	Yes	
3001	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	200780051611.7	ZL200780051611.7	101617557	Yes	
3002	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	CN	201210567903.9	ZL201210567903.9	103067128	Yes	
3003	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	78690948	########	2098001	Yes	
3004	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	78690948	2098001	2098001	Yes	
3005	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2009-543059	5010687	2010-514372	Yes	
3006	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2009-7012771	10-1098609	10-2009-0086112	Yes	
3007	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	96144516	I376910	200833000	Yes	
3008	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER	[redacted]	[redacted]	PCT	PAT-Active	CN	200780023102.3	ZL200780023102.3	101473563		
3009	HIGH SPEED COMPARATOR OFFSET CORRECTION	[redacted]	[redacted]	NP	PAT-Active	US	11/518105	7362246	US-2008-0062032-A1		
3010	TECHNIQUES TO DETERMINISTICALLY REDUCE SIGNAL INTERFERENCE	[redacted]	[redacted]	NP	PAT-Active	US	11/614284	7693501	US-2008-0153447-A1		
3011	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	11/714371	8179869	US-2008-0219189-A1		
3012	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	200880001500X	ZL200880001500X	101622832		
3013	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	87311460	########	2119133		
3014	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	87311460	2119133	2119133		
3015	LOCAL OSCILLATOR CONTROL IN RADIO RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	11/714307	7630697	US-2008-0219329-A1		
3016	CMOS IC AND HIGH-GAIN ANTENNA INTEGRATION FOR POINT-TO-POINT WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	11/807987	7737894	US-2008-0297429-A1		
3017	CMOS IC AND HIGH-GAIN ANTENNA INTEGRATION FOR POINT-TO-POINT WIRELESS COMMUNICATION	[redacted]	[redacted]	DIV	PAT-Active	US	12/775137	7852278	US-2010-0214186-A1		
3018	MAPPING OF PREAMBLE SEQUENCE SETS WITH FRAME CONTROL HEADER (FCH) LOCATION FOR MULTI-HOP WIRELESS BROADBAND ACCESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	11/923586	8169925	US-2008-0117846-A1		
3019	METHODS AND ARRANGEMENTS TO DETERMINE A RECEPTION OF A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	11/796956	7843872	US-2008-0267059-A1		
3020	POWER AMPLIFIER EFFICIENCY USING ERROR ESTIMATE AND DATA RATE	[redacted]	[redacted]	NP	PAT-Active	US	11/699096	7792505	US-2008-0182530-A1		
3021	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING	[redacted]	[redacted]	NP	PAT-Active	US	11/864688	8149747	US-2009-0086660-A1		
3022	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING	[redacted]	[redacted]	CNT	PAT-Active	US	13/334648	8717958	US-2012-0272079-A1		
3023	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING	[redacted]	[redacted]	PCT	PAT-Active	JP	2010-527177	5043194	2010-541414		
3024	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2010-7006686	10-1162848	10-2010-0059915		
3025	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	12/955060	8306581	US-2011-0070849-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3026	MOBILE CHANNEL ESTIMATION FOR DVB-T COFDM DEMODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	11/986897	7970068	US-2009-0135923-A1		
3027	CASCADED PHASE PULSE POSITION AND PULSE WIDTH MODULATION BASED DIGITAL TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	11/837043	7773669	US-2009-0041108-A1		
3028	CASCADED PHASE PULSE POSITION AND PULSE WIDTH MODULATION BASED DIGITAL TRANSMITTER	[redacted]	[redacted]	PCT	PAT-Active	CN	2008801025210	ZL2008801025210	101772897		
3029	CASCADED PHASE PULSE POSITION AND PULSE WIDTH MODULATION BASED DIGITAL TRANSMITTER	[redacted]	[redacted]	PCT	PAT-Active	DE	1120080021694	########	112008002169		
3030	CASCADED PHASE PULSE POSITION AND PULSE WIDTH MODULATION BASED DIGITAL TRANSMITTER	[redacted]	[redacted]	PCT	PAT-Active	GB	10037166	2465126	2465126		
3031	SUBRANGING FOR A PULSE POSITION AND PULSE WIDTH MODULATION BASED TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	12/176646	8098726	US-2009-0034603-A1		
3032	SUBRANGING FOR A PULSE POSITION AND PULSE WIDTH MODULATION BASED TRANSMITTER	[redacted]	[redacted]	PCT	PAT-Active	CN	2008801005185	ZL2008801005185	101765972		
3033	SUBRANGING FOR A PULSE POSITION AND PULSE WIDTH MODULATION BASED TRANSMITTER	[redacted]	[redacted]	PCT	PAT-Active	DE	1120080019932	########	112008001993		
3034	POLAR AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	11/807997	7541867	US-2008-0297246-A1		
3035	POLAR AMPLIFIER	[redacted]	[redacted]	PCT	PAT-Active	CN	200880017890X	ZL200880017890X	101682302		
3036	POLAR AMPLIFIER	[redacted]	[redacted]	EPT	PAT-Active	EP	87477360	2153519	2153519		
3037	POLAR AMPLIFIER	[redacted]	[redacted]	EPT	PAT-Active	DE	87477360	2153519	2153519		
3038	POLAR AMPLIFIER	[redacted]	[redacted]	EPT	PAT-Active	FR	87477360	2153519	2153519		
3039	POLAR AMPLIFIER	[redacted]	[redacted]	EPT	PAT-Active	GB	87477360	2153519	2153519		
3040	POLAR AMPLIFIER	[redacted]	[redacted]	EPT	PAT-Active	NL	87477360	2153519	2153519		
3041	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PALTFORM	[redacted]	[redacted]	NP	PAT-Active	US	11/890713	8213344	US-2009-0042555-A1		
3042	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PLATFORM	[redacted]	[redacted]	PCT	PAT-Active	CN	200880101992X	ZL200880101992X	101779382		
3043	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PLATFORM	[redacted]	[redacted]	PCT	PAT-Active	DE	1120080020973	########	112008002097		
3044	MILLIMETER-WAVE PHASE-LOCKED LOOP WITH INJECTION-LOCKED FREQUENCY DIVIDER USING QUARTER-WAVELENGTH TRANSMISSION LINE AND METHOD OF CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	US	11/835330	7856212	US-2009-0042528-A1		
3045	METHOD AND APPARATUS FOR MULTICARRIER COMMUNICATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	11/748310	8036702	US-2008-0287068-A1	Yes	
3046	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	13/269013	8560009	US-2012-0027116-A1	Yes	
3047	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	13/706275	9497762	US-2013-0107766-A1	Yes	
3048	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/351341		US-2017-0127418-A1	Yes	
3049	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2008800159330	ZL200880015933	101682600	Yes	
3050	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	87476206		2156631	Yes	
3051	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	161588314		3043505	Yes	
3052	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2009-7023678	10-1114745	10-2009-0128565	Yes	
3053	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	12/004923	8254359	US-2009-0161646-A1		
3054	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK	[redacted]	[redacted]	DIV	PAT-Active	US	13/532969	8743857	US-2012-0269280-A1		
3055	MILLIMETER-WAVE COMMUNICATION STATIONS WITH DIRECTIONAL ANTENNAS AND METHODS FOR FAST LINK RECOVERY	[redacted]	[redacted]	NP	PAT-Active	US	11/682658	7652624	US-2008-0218413-A1		
3056	MILLIMETER-WAVE COMMUNICATION STATIONS WITH DIRECTIONAL ANTENNAS AND METHODS FOR FAST LINK RECOVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	2008800014897	ZL200880001489	101601317		
3057	UNIFIED MULTI-MODE RECEIVER DETECTOR	[redacted]	[redacted]	NP	PAT-Active	US	11/888228	8068566	US-2009-0034662-A1		
3058	HIERARCHICAL CELL DEPLOYMENT	[redacted]	[redacted]	NP	PAT-Active	US	12/043343	8355378	US-2008-0219216-A1		
3059	ARCHITECTURE AND METHODS FOR COEXISTENCE OF WIRELESS RADIOS HAVING DIFFERING PROTOCOLS	[redacted]	[redacted]	NP	PAT-Active	US	11/697369	8189710	US-2008-0247445-A1		
3060	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE	[redacted]	[redacted]	CNT	PAT-Active	US	13/082505	8224973	US-2011-0191411-A1		
3061	ESTIMATING STATISTICAL PROPERTIES OF NOISE IN MODULATED DATA CARRIER SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	11/959347	7979032	US-2009-0270044-A1		
3062	DIVERSITY RECEIVER AND METHOD FOR CONTROLLING POWER THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	11/870028	8116404	US-2009-0097600-A1		
3063	DIRECT CONVERSION RECEIVER AND METHOD FOR CORRECTING PHASE IMBALANCE THEREIN	[redacted]	[redacted]	NP	PAT-Active	US	11/933579	8036319	US-2009-0116586-A1		
3064	RECIEVER SYSTEM FOR MULTIPLE BANDWIDTH TELEVISION CHANNELS	[redacted]	[redacted]	NP	PAT-Active	US	11/863748	8237870	US-2009-0086107-A1		
3065	SYSTEM AND METHOD FOR CONTROLLING RESONANCE FREQUENCY OF FILM BULK ACOUSTIC RESONATOR DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	11/836538	7719389	US-2009-0039981-A1		
3066	COMPRESSED MEDIUM ACCESS CONTROL (MAC) HEADER STRUCTURE FOR MAC OVERHEAD REDUCTION IN MOBILE WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WiMAX) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	11/831299	7974312	US-2009-0034526-A1		
3067	PLATFORM NOISE ESTIMATION AND MITIGATION	[redacted]	[redacted]	NP	PAT-Active	CN	2008101785352	ZL200810178535	101404775		
3068	FIELD PROGRAMING OF A MOBILE STATION WITH SUBSCRIBER IDENTIFICATION AND RELATED INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	11/763978	8331989	US-2008-0311956-A1		
3069	EMERGENCY CALL SERVICES FOR WIRELESS NETWORK ROAMING	[redacted]	[redacted]	NP	PAT-Active	US	12/130358	8094651	US-2008-0311881-A1		
3070	DEVICE SYSTEM AND METHOD OF CHANNEL QUALITY INDICATION	[redacted]	[redacted]	NP	PAT-Active	US	11/923781	7974242	US-2009-0111475-A1		
3071	ADAPTIVE PAGING AREA	[redacted]	[redacted]	NP	PAT-Active	US	12/165280	8094633	US-2009-0003285-A1		
3072	ADAPTIVE SLEEP AREA	[redacted]	[redacted]	NP	PAT-Active	US	12/165438	8359037	US-2009-0003255-A1		
3073	CHANNEL AWARE MULTIPLE USER MIMO SCHEME UNIFIED WITH SINGLE USER CLOSED LOOP MIMO	[redacted]	[redacted]	NP	PAT-Active	US	12/183317	8179844	US-2009-0074099-A1		
3074	SIGMA-DELTA CONVERTER NOISE CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	US	12/239294	7812750	US-2010-0079324-A1		
3075	BEAM SELECTION IN OPEN LOOP MU-MIMO	[redacted]	[redacted]	NP	PAT-Active	US	12/057727	8290539	US-2009-0042617-A1		
3076	METHOD AND APPARATUS FOR SCHEDULING TRANSMISSIONS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/966859	8103218	US-2009-0040936-A1		
3077	EFFICIENT CQICH TRANSPORT FORMAT	[redacted]	[redacted]	NP	PAT-Active	US	12/057678	8315643	US-2009-0041138-A1		
3078	ASSIGNING NONCES FOR SECURITY KEYS	[redacted]	[redacted]	NP	PAT-Active	US	12/006265	8509439	US-2009-0172394-A1		
3079	ADAPTIVE ANTENNA BEAMFORMING	[redacted]	[redacted]	CNT	PAT-Active	US	12/898007	8508410	US-2011-0018767-A1		
3080	TRANSISTOR AND ROUTING LAYOUT FOR A RADIO FREQUENCY INTEGRATED CMOS POWER AMPLIFIER DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	12/164219	7705684	US-2009-0322427-A1		
3081	AVOIDING COLLISIONS BETWEEN USERS IF MAP CONTAINING PERSISTENT SCHEDULING INFORMATION IS LOST	[redacted]	[redacted]	NP	PAT-Active	US	11/945924	8072875	US-2009-0138598-A1		
3082	SYSTEM AIDED PAPR REDUCTION SCHEME BASED ON TR ALGORITHM	[redacted]	[redacted]	NP	PAT-Active	US	12/113175	8169959	US-2009-0274103-A1		
3083	LOOP DELAY COMPENSATION FOR CONTINUOUS TIME SIGMA DELTA ANALOG TO DIGITAL CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	12/215874	8195221	US-2009-0325632-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3084	NOVEL DOUBLE-FEEDBACK FLEXIBLE NON-INTEGER FREQUENCY DIVISION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	12/254000	7804932	US-2010-0097106-A1		
3085	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/049207	7962091	US-2009-0233544-A1	Yes	
3086	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETOWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/094523	8265547	US-2011-0199957-A1	Yes	
3087	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/105222	8422940	US-2011-0211618-A1	Yes	
3088	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	2009101595070	ZL2009101595070	101610518	Yes	
3089	INTERFERENCE AVOIDANCE WITH SYNCHRONOUS HARQ AND PERSISTENT SCHEDULING	[redacted]	[redacted]	NP	PAT-Active	US	12/347862	8359512	US-2010-0005355-A1		
3090	METHOD AND APPARATUS FOR EFFICIENT SCHEDULING IN BROADBAND WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/419250	8570958	US-2009-0257389-A1	Yes	
3091	USER EQUIPMENT AND METHOD FOR PERSISTENT SUBFRAME SCHEDULING	[redacted]	[redacted]	CNT	PAT-Active	US	14/052936	9749995	US-2014-0036843-A1	Yes	
3092	RADIO FREQUENCY INTERFERENCE SENSING SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	12/166168	8483621	US-2010-0003924-A1		
3093	MULTI-TRANSCEIVER WIRELESS COMMUNICATION DEVICE AND METHODS FOR OPERATING DURING DEVICE DISCOVERY AND CONNECTION ESTABLISHMENT	[redacted]	[redacted]	NP	PAT-Active	US	12/062707	8149804	US-2009-0252128-A1		
3094	PILOT METHOD FOR 80216M	[redacted]	[redacted]	NP	PAT-Active	US	12/415938	7974178	US-2010-0246696-A1		
3095	SYSTEM AND METHOD FOR PROVIDING LOCATION BASED SERVICES (LBS) TO ROAMING SUBSCRIBERS IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/201048	8064928	US-2010-0056182-A1		
3096	DYNAMIC INTERFERENCE AVOIDANCE WITH ASYNCHRONOUS HARQ	[redacted]	[redacted]	NP	PAT-Active	US	12/317112	8261151	US-2010-0162069-A1		
3097	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	NP	PAT-Active	US	12/169731	8243690	US-2010-0008331-A1		
3098	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	DIV	PAT-Active	CN	201310166165 1	ZL2013101661651	103326842		
3099	VIRTUAL MULTICARRIER DESIGN FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/242755	8295373	US-2010-0080308-A1	Yes	
3100	VIRTUAL MULTICARRIER DESIGN FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	13/658735	8934554	US-2013-0114527-A1	Yes	
3101	VIRTUAL MULTICARRIER DESIGN FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/563956	9548879	US-2015-0172085-A1	Yes	
3102	VIRTUAL MULTICARRIER DESIGN FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Pending	US	16/021871		US-2018-0310314-A1	Yes	
3103	VIRTUAL MULTICARRIER DESIGN FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/366903	10045347	US-2017-0086198-A1	Yes	
3104	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	11/704027	7424002	US-2007-0133496-A1		
3105	CALCULATING SPATIAL WEIGHTS IN A RADIO COMMUNICATIONS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/727261	6650881			
3106	CHANNEL ALLOCATION BASED ON RANDOM PLUS PLANNED PROCESSES	[redacted]	[redacted]	NP	PAT-Active	US	09/753266	7978673			
3107	RADIO COMMUNICATIONS SYSTEM WITH A MINIMAL BROADCAST CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	09/675748	7158493		Yes	
3108	RADIO COMMUNICATIONS SYSTEM WITH A MINIMAL BROADCAST CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	11/583754	8089925		Yes	
3109	RADIO COMMUNICATIONS SYSTEM WITH A MINIMAL BROADCAST CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	13/342175	8532048	US-2012-0099459-A1	Yes	
3110	RADIO COMMUNICATIONS SYSTEM WITH A MINIMAL BROADCAST CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	JP	2002-531765	4865185	2004-511143	Yes	
3111	RADIO COMMUNICATIONS SYSTEM WITH A MINIMAL BROADCAST CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2003-7004468	10-0795424	10-2003-0033085	Yes	
3112	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	CIP	PAT-Active	US	10/175707	7630346	US-2003-0067901-A1	Yes	
3113	SELECTING RANDOM ACCESS CHANNELS	[redacted]	[redacted]	CIP	PAT-Active	US	10/218770	7349371	US-2003-0133426-A1	Yes	
3114	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	03819799.5	ZL0381979.95	1930902	Yes	
3115	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	DE	37611951	########	1520443	Yes	
3116	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	EP	37611951	1520443	1520443	Yes	
3117	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	FR	37611951	1520443	1520443	Yes	
3118	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	GB	37611951	1520443	1520443	Yes	
3119	HOPPING ON RANDOM ACCESS CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2004-7020749	10-0992977	10-2005-0008838	Yes	
3120	METHOD AND APPARATUS FOR INCREASING THE EFFECTIVE RANGE OF A COMMUNICATION LINK IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/817731	7386781	US-2002-0166097-A1		
3121	ADAPTIVE ANTENNA ARRAY WITH PROGRAMMABLE SENSITIVITY	[redacted]	[redacted]	NP	PAT-Active	US	09/967896	7039363			
3122	METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	NP	PAT-Active	US	09/967863	6965788			
3123	REMOTE UNIT FOR PROVIDING MULTIPLE-MODE SPATIAL PROCESSING	[redacted]	[redacted]	CNT	PAT-Active	US	13/205553	8326374	US-2011-0294554-A1		
3124	CALIBRATION OF WIDEBAND RADIOS AND ANTENNAS USING A NARROWBAND CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	09/967127	7039016			
3125	SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	11/717913	7660276	US-2007-0165552-A1		
3126	SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	NP	PAT-Active	US	09/967058	6973314	US-2003-0064754-A1		
3127	SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	CNT	PAT-Active	US	11/254599	7299073	US-2006-0040672-A1		58
3128	METHOD AND APPARATUS FOR EFFICIENT STORAGE OF TRAINING SEQUENCES FOR PEAK TO AVERAGE POWER CONSTRAINED MODULATION FORMATS	[redacted]	[redacted]	NP	PAT-Active	US	09/967208	7433418			
3129	METHOD AND APPARATUS FOR EFFICIENT STORAGE OF TRAINING SEQUENCES FOR PEAK TO AVERAGE POWER CONSTRAINED MODULATION FORMATS	[redacted]	[redacted]	CNT	PAT-Active	US	12/245623	8325847	US-2010-0086078-A1		
3130	ESTIMATION OF DOWNLINK TRANSMISSION PARAMETERS IN A RADIO COMMUNICATIONS SYSTEM WITH AN ADAPTIVE ANTENNA ARRAY	[redacted]	[redacted]	NP	PAT-Active	US	10/153515	6738020			
3131	BROADCAST BURST USING SPATIAL DIVERSITY FOR A RADIO COMMUNICATIONS SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	11/581192	7430246			
3132	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	NP	PAT-Active	US	10/189709	7269389	US-2004-0005905-A1	Yes	
3133	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	PAT-Active	CA	2491671	2491671	2491671	Yes	
3134	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	PAT-Active	CN	03820138.0	ZL0382013.80	1679254	Yes	
3135	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	DE	37424215	########	1520354	Yes	
3136	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	EP	37424215	1520354	1520354	Yes	
3137	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	GB	37424215	1520354	1520354	Yes	
3138	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	PAT-Active	JP	2004-519821	4486884	2005-532739	Yes	
3139	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	CIP	PAT-Active	US	10/262316	7257101	US-2004-0004944-A1	Yes	
3140	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	DE	37522752	########	1547272	Yes	
3141	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	EP	37522752	1547272	1547272	Yes	
3142	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	FR	37522752	1547272	1547272	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3143	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	EPT	PAT-Active	GB	37522752	1547272	1547272	Yes	
3144	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	10/187023	6928287	US-2004-0132454-A1		
3145	SYMBOL ESTIMATION-BASED DECORRELATOR FOR DIRECTING BEAMS AND S TO REMOTE USERS IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	US	11/249903	7310538	US-2006-0040708-A1		718
3146	PHASE ERROR DETECTION WITH CONDITIONAL PROBABILITIES	[redacted]	[redacted]	NP	PAT-Active	US	12/317970	8204156	US-2010-0166115-A1		
3147	DETECTION AND RECOVERY OF HARQ NAK-TO-ACK FEEDBACK ERROR IN WIRELESS COMMUNICATIONS SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	US	14/606864	9344228	US-2015-0149849-A1		
3148	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	12/536788	8509096	US-2011-0032869-A1		
3149	ANTENNA STRUCTURE	[redacted]	[redacted]	NP	PAT-Active	US	12/237524	8089418	US-2010-0141533-A1		
3150	METHOD AND APPARATUS OF SUBCHANNELIZATION OF WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/327838	8095176	US-2010-0144340-A1		
3151	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	PCT	PAT-Active	IN	9020/DELNP/2011	306768	9020/DELNP/2011		
3152	PARTIALLY RANDOM PERMUTATION SEQUENCE GENERATOR	[redacted]	[redacted]	NP	PAT-Active	US	12/345529	8510358	US-2010-0169400-A1		
3153	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	PCT	PAT-Active	IN	9262/DELNP/2011	300238	9262/DELNP/2011		
3154	TECHNIQUES TO SUPPORT MULTIPLE RADIO-ACCESS TECHNOLOGIES	[redacted]	[redacted]	NP	PAT-Active	US	12/384502	8391252	US-2010-0111047-A1		
3155	TECHNIQUES FOR FEMTO CELL SYNCHRONIZATION IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/653816	8396050	US-2010-0157906-A1		
3156	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	NP	PAT-Active	US	12/459145	8538434	US-2010-0330991-A1		
3157	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800282544	ZL2010800282544	102461293		
3158	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	EPT	PAT-Active	EP	107925208	2446680	2446680		
3159	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	EPT	PAT-Active	DE	107925208	2446680	2446680		
3160	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	EPT	PAT-Active	FR	107925208	2446680	2446680		
3161	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	EPT	PAT-Active	GB	107925208	2446680	2446680		
3162	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	NP	PAT-Active	TW	99118580	I455625	201114292		
3163	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	NP	PAT-Active	US	12/456987	8311545	US-2010-0331000-A1		
3164	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	EP	107975146	2446666	2446666		
3165	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	AT	107975146	2446666	2446666		
3166	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	BE	107975146	2446666	2446666		
3167	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	CH	107975146	2446666	2446666		
3168	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	DE	107975146	2446666	2446666		
3169	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	EE	107975146	2446666	2446666		
3170	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	ES	107975146	2446666	2446666		
3171	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	FR	107975146	2446666	2446666		
3172	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	GB	107975146	2446666	2446666		
3173	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	GR	107975146	2446666	2446666		
3174	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	HU	107975146	2446666	2446666		
3175	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	IE	107975146	2446666	2446666		
3176	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	NL	107975146	2446666	2446666		
3177	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	EPT	PAT-Active	SK	107975146	2446666	2446666		
3178	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/502857	8782482	US-2011-0016369-A1	Yes	
3179	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
3180	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
3181	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELES SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800418351	ZL2010800418351	102511142	Yes	
3182	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	US	14/296313	9356741	US-2014-0289580-A1	Yes	
3183	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/144510	9900127	US-2016-0323069-A1	Yes	
3184	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	CNT	APP-Pending	US	15/864809		US-2018-0131475-A1	Yes	
3185	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-520682	5455274	2012-533929	Yes	
3186	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7003781	10-1335904	10-2012-0032563	Yes	
3187	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	99122832	I440331	201138359	Yes	
3188	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	NP	PAT-Active	US	12/425795	8553592	US-2010-0265856-A1		
3189	ALIGNMENT OF CHANNEL FILTERS FOR MULTIPLE-TUNER APPARATUSES	[redacted]	[redacted]	NP	PAT-Active	US	12/460811	8335279	US-2011-0019785-A1		
3190	DELAY LINE CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	US	12/769806	8736384	US-2011-0267120-A1		
3191	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/567364	8654740	US-2011-0075650-A1		
3192	METHODS AND SYSTEMS TO DIGITALLY SWITCH BETWEEN FREQUENCIES AND CORRESPONDING BANDWIDTHS IN A TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	US	12/565306	8300731	US-2011-0069740-A1		
3193	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	NP	PAT-Active	US	12/614586	8301177	US-2010-0226311-A1		
3194	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/624049	8316269	US-2010-0275081-A1		
3195	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	IN	8247/DELNP/2011	307517	8247/DELNP/2011		
3196	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/615629	8560696	US-2010-0274899-A1		
3197	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	US	14/031295	9253761	US-2014-0016606-A1		
3198	TAIL-BITING CONVOLUTIONAL CODES FOR UPLINK FAST FEEDBACK CONTROL CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	12/799634	8677223	US-2010-0287452-A1		
3199	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	NP	PAT-Active	US	12/611487	8462676	US-2011-0103494-A1	Yes	
3200	BASE STATION AND METHOD FOR CONFIGURING SUB-FRAMES FOR RELAY-NODE OPERATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	13/530686	8634334	US-2012-0263135-A1	Yes	
3201	BASE STATION AND METHOD FOR CONFIGURING SUB-FRAMES FOR RELAY-NODE OPERATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/044070	8917638	US-2014-0105075-A1	Yes	
3202	BASE STATION AND METHOD FOR CONFIGURING SUB-FRAMES FOR RELAY-NODE OPERATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/577934	9219581	US-2015-0103733-A1	Yes	
3203	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCD	APP-Pending	CN	2017101516764		107395543	Yes	
3204	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	FPD	APP-Pending	HK	181033624		1244120	Yes	
3205	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2013-7029379	10-1484877	10-2013-0132663	Yes	
3206	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCT	PAT-Active	RU	2012122823	2517165	2012122823	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3207	METHOD AND SYSTEM FOR TRANSMISSION OF ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED (OFDM) SYMBOLS IN SUBFRAMES (amended 7/2013)	[redacted]	[redacted]	NP	PAT-Active	TW	99130073	I427979	201134150	Yes	
3208	METHOD AND SYSTEM FOR TRANSMISSION OF ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED (OFDM) SYMBOLS IN SUBFRAMES (amended 7/2013)	[redacted]	[redacted]	DIV	PAT-Active	TW	102142820	I519105	201415838	Yes	
3209	METHOD AND SYSTEM FOR TRANSMISSION OF ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED (OFDM) SYMBOLS IN SUBFRAMES	[redacted]	[redacted]	DIV	PAT-Active	TW	104135852	I568221	201611547	Yes	
3210	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/533088	8412263	US-2010-0142500-A1		
3211	GROUP RESOURCE ALLOCATION TECHNIQUES FOR IEEE 80216M	[redacted]	[redacted]	NP	PAT-Active	US	12/651338	8351533	US-2010-0266057-A1		
3212	MOBILE STATION AND METHOD FOR DYNAMICALLY SWITCHING SLEEP CYCLES WITHOUT DEACTIVATING A CURRENT POWER SAVINGS CLASS (PSC)	[redacted]	[redacted]	NP	PAT-Active	US	12/497196	8233418	US-2010-0002615-A1		
3213	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	NP	PAT-Active	US	12/536132	8368601	US-2011-0032157-A1		
3214	METHOD AND APPARATUS TO SUPPORT MULTI-CHANNEL RECEPTION	[redacted]	[redacted]	NP	PAT-Active	US	12/567670	8279355	US-2011-0075034-A1		
3215	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	NP	PAT-Active	US	12/586726	8953663	US-2011-0075715-A1		
3216	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	CNT	PAT-Active	US	14/457811	9509355	US-2015-0036727-A1		
3217	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	NP	PAT-Active	CN	2010102942911	ZL2010102942911	102035561		
3218	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	EPT	PAT-Active	EP	108192113	2481157	2481157		
3219	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	ETD	PAT-Active	EP	151661428	3026819	3026819		
3220	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	ETD	PAT-Active	DE	151661428	3026819	3026819		
3221	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	EPT	PAT-Active	DE	108192113	2481157	2481157		
3222	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	ETD	PAT-Active	FR	151661428	3026819	3026819		
3223	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	ETD	PAT-Active	GB	151661428	3026819	3026819		
3224	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	ETD	PAT-Active	NL	151661428	3026819	3026819		
3225	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	EPT	PAT-Active	FR	108192113	2481157	2481157		
3226	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	EPT	PAT-Active	GB	108192113	2481157	2481157		
3227	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-530895	5646635	2013-505667		
3228	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/646962	8417190	US-2010-0273435-A1	Yes	
3229	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	99113311	I517624	201126959		
3230	WIRELESS BROADBAND RESOURCE ALLOCATION INDEXING	[redacted]	[redacted]	NP	PAT-Active	US	12/638417	8300586	US-2011-0141980-A1		
3231	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	12/589938	8284725	US-2011-0103314-A1		
3232	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES	[redacted]	[redacted]	FPR	PAT-Active	HK	121120170	1171319	1171319		
3233	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	NP	PAT-Active	US	12/639640	8315204	US-2011-0002263-A1	Yes	
3234	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	PCT	APP-Pending	BR	112012000427-1		112012000427-1	Yes	
3235	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/652061	9042322	US-2013-0100898-A1	Yes	
3236	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/593957	9419694	US-2015-0162962-A1	Yes	
3237	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/203606	9680543	US-2016-0315678-A1	Yes	
3238	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/496969	10027394	US-2017-0230097-A1	Yes	
3239	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201080034784X	ZL201080034784X	102474320	Yes	
3240	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	PCD	PAT-Active	CN	2014104717032	ZL201410471703 2	104202130	Yes	
3241	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	ETD	APP-Pending	EP	161914445		3145142	Yes	
3242	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	FPD	APP-Pending	HK	171094426		1235931	Yes	
3243	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-519617	5536884	2012-532567	Yes	
3244	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7003254	10-1345950	10-2012-0033348	Yes	
3245	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2013-7024181	10-1442452	10-2013-0116366	Yes	
3246	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	NP	PAT-Active	TW	99122025	I517617	201132029	Yes	
3247	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	DIV	PAT-Active	TW	104135619	I583147	201605192	Yes	
3248	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS	[redacted]	[redacted]	DIV	PAT-Active	TW	106103689	I632783	201735561	Yes	
3249	Systems and methods for channel coding of wireless communication	[redacted]	[redacted]	NP	PAT-Active	US	12/655224	8397126	US-2011-0004804-A1		
3250	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)	[redacted]	[redacted]	NP	PAT-Active	US	12/643675	8566593	US-2011-0004760-A1		
3251	A METHOD OF DERIVING SECURITY KEYS FROM IMPLICIT PEER IDENTITY	[redacted]	[redacted]	FPR	PAT-Active	HK	131000245	1173021	1173021		
3252	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)	[redacted]	[redacted]	PCT	PAT-Active	IN	10346/DELNP/2011	312109	10346/DELNP/2011		
3253	UPLINK OPEN LOOP POWER CONTROL SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/638707	8599769	US-2011-0002279-A1		
3254	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	NP	PAT-Active	US	12/639061	8542696	US-2011-0141892-A1	Yes	
3255	ARTICLE OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	CNT	PAT-Active	US	13/892395	9060368	US-2013-0250887-A1	Yes	
3256	APPARATUS AND ARTICLE OF SIMULTANEOUSLY TRANSMITTING TO A GROUP OF WIRELESS COMMUNICATION STATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/710714	9877223	US-2015-0257031-A1	Yes	
3257	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	NP	PAT-Active	CN	201010597726X	ZL201010597726X	102104839	Yes	
3258	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	DIV	PAT-Active	CN	2015105500696	ZL2015105500696	105263123	Yes	
3259	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	EPT	PAT-Active	EP	108423997	2514223	2514223	Yes	
3260	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	EPT	PAT-Active	DE	108423997	2514223	2514223	Yes	
3261	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	EPT	PAT-Active	FR	108423997	2514223	2514223	Yes	
3262	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	EPT	PAT-Active	GB	108423997	2514223	2514223	Yes	
3263	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	EPT	PAT-Active	NL	108423997	2514223	2514223	Yes	
3264	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-544507	5539535	2013-514038	Yes	
3265	FEMTOCELL DISCOVERY AND ASSOCIATION IN CELLULAR NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/646560	8400985	US-2011-0149878-A1	Yes	
3266	FEMTOCELL DISCOVERY AND ASSOCIATION IN CELLULAR NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/769703	9237435	US-2013-0157657-A1	Yes	
3267	BASE STATION DISCOVERY AND ASSOCIATION IN CELLULAR NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/992523	10306543	US-2016-0174143-A1	Yes	
3268	ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/644090	8351384	US-2011-0044266-A1		
3269	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING	[redacted]	[redacted]	NP	PAT-Active	US	12/646708	8280417	US-2010-0279717-A1		
3270	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	12/645502	8351848	US-2011-0045763-A1		
3271	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	NP	PAT-Active	US	12/644080	8255677	US-2011-0004747-A1	Yes	
3272	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	CNT	PAT-Active	US	13/555228	10153920	US-2012-0289222-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3273	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800403661	ZL2010800403661	102498733	Yes	
3274	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	PCD	PAT-Active	CN	2016100992542	ZL2016100992542	105722083	Yes	
3275	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	EPT	APP-Pending	EP	107976490		2452515	Yes	
3276	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	FPD	APP-Pending	HK	161084321		1220566	Yes	
3277	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7003208	10-1417540	10-2012-0035207	Yes	
3278	INITIALIZING FEMTOCELLS	[redacted]	[redacted]	PCT	PAT-Active	RU	2012103910	2557077	2012103910	Yes	
3279	METHOD FOR INITIALIZING FEMTOCELLS FEMTOCELL ACCESS POINT AND COMPUTER READABLE MEDIA	[redacted]	[redacted]	NP	PAT-Active	TW	99122026	I494019	201110797	Yes	
3280	FEMTOCELL ARCHITECTURE AND NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/645045	8638731	US-2011-0149876-A1	Yes	
3281	HANDOVER FOR CELLULAR RADIO COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/646718	8275378	US-2011-0002299-A1		
3282	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/636892	8599768	US-2011-0044265-A1		
3283	ZONE SWITCHING IN MIXED-ZONE AIR INTERFACE	[redacted]	[redacted]	NP	PAT-Active	US	12/646284	8301148	US-2010-0227618-A1		
3284	TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/660295	8351322	US-2010-0226322-A1		
3285	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS	[redacted]	[redacted]	NP	PAT-Active	US	12/820966	8588139	US-2011-0044244-A1		
3286	LOCATION DETERMINATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/844435	8477690	US-2011-0110338-A1		
3287	TECHNIQUES USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/757109	8737199	US-2011-0249655-A1	Yes	
3288	TECHNIQUES USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	APP-Pending	BR	PI1101875-5		PI1101875-5	Yes	
3289	TECHNIQUES USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/591613	8873417	US-2013-0223495-A1	Yes	
3290	METHOD MOBILE STATION AND BASE STATION USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	2011100931902	ZL2011100931902	102215087	Yes	
3291	TECHNIQUES USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	EPA	APP-Pending	EP	111619433		2375583	Yes	
3292	TECHNIQUES USING DIFFERENTIAL PRECODING FOR HIGHLY CORRELATED CHANNELS IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	KR	10-2011-0032926	10-1229215	10-2011-0113595	Yes	
3293	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	US	12/655159	9438404	US-2011-0149760-A1		
3294	APPARATUS AND METHODS FOR MINIMIZING PERFORMANCE LOSS IN MULTIPLE TUNER SOLUTIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/752569	8290448	US-2011-0244812-A1		
3295	CALIBRATION OF QUADRATURE IMBALANCES USING WIDEBAND SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	12/800995	8711905	US-2011-0292978-A1		
3296	METHOD AND APPARATUS FOR ADAPTIVE MITIGATION OF NOISE INTERFERENCE	[redacted]	[redacted]	NP	PAT-Active	US	13/192255	8830972	US-2013-0028244-A1		
3297	METHOD AND APPARATUS FOR ADAPTIVE MITIGATION OF NOISE INTERFERENCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800373754	ZL2012800373754	103703690		
3298	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES	[redacted]	[redacted]	NP	PAT-Active	US	12/846533	8472380	US-2011-0044229-A1		
3299	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/789098	8472425	US-2011-0044213-A1	Yes	
3300	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201080035354X	ZL201080035354X	102474805	Yes	
3301	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	CN	2015100889072	ZL2015100889072	104619031	Yes	
3302	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-526866	5382480	2013-502880	Yes	
3303	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7004721	10-1405672	10-2012-0046280	Yes	
3304	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/826639	8638751	US-2011-0096737-A1	Yes	
3305	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-535210	5553182	2013-509088	Yes	
3306	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7010065	10-1398386	10-2012-0068934	Yes	
3307	NEIGHBOR LIST BROADCASTING TECHNIQUES	[redacted]	[redacted]	CNT	PAT-Active	US	14/282826	9503939	US-2015-0004977-A1		
3308	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/890179	8483132	US-2011-0134896-A1		
3309	TECHNIQUES TO CONTROL UPLINK POWER	[redacted]	[redacted]	NP	PAT-Active	US	12/782800	8295335	US-2011-0158304-A1		
3310	UPLINK POWER CONTROL IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/843940	8224373	US-2011-0159913-A1		
3311	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-529899	5445880	2013-504985		
3312	DIFFERENTIAL FEEDBACK SCHEME FOR CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	NP	PAT-Active	US	12/770620	8340207	US-2011-0064158-A1		
3313	DIFFERENTIAL FEEDBACK METHOD AND APPARATUS FOR CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800303466	ZL2010800303466	102460996		
3314	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	DE	107703860	2425544	2425544		
3315	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	EP	107703860	2425544	2425544		
3316	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	FR	107703860	2425544	2425544		
3317	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	GB	107703860	2425544	2425544		
3318	DIFFERENTIAL FEEDBACK SCHEME FOR CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-508754	5275514	2012-525796		
3319	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	NL	107703860	2425544	2425544		
3320	MANAGING INTERFERENCE DUE TO LOW POWER BSS	[redacted]	[redacted]	NP	PAT-Active	US	12/889025	8526984	US-2011-0159898-A1		
3321	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	NP	PAT-Active	US	12/845482	8554261	US-2012-0028671-A1		
3322	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	CNT	PAT-Active	US	14/579321	9549378	US-2015-0271762-A1		
3323	METHOD AND APPARATUS FOR POWER LOADING IN MU-MIMO	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800468660	ZL2011800468660	103119993		
3324	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	EPT	PAT-Active	EP	118129444	2599354	2599354		
3325	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	EPT	PAT-Active	DE	118129444	2599354	2599354		
3326	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	EPT	PAT-Active	FR	118129444	2599354	2599354		
3327	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	EPT	PAT-Active	GB	118129444	2599354	2599354		
3328	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	EPT	PAT-Active	NL	118129444	2599354	2599354		
3329	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2013-7004992	10-1464451	10-2013-0069750		
3330	PLATFORM NOISE ESTIMATION AND MITIGATION FOR WIRELESS RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	12/886316	8509364	US-2012-0069940-A1		
3331	METHOD AND APPARATUS FOR TRANSFORMER POWER COMBINER AND DYNAMIC POWER CONTROL FOR OUTPHASING POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Active	US	12/879252	8472896	US-2012-0062318-A1		
3332	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/822925	8630229	US-2011-0002270-A1		
3333	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800304914	ZL2010800304914	102474487		
3334	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	NP	PAT-Active	US	12/889651	8462864	US-2011-0158337-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3335	MOBILE DEVICE TRANSMITTER AND METHODS FOR TRANSMITTING SIGNALS IN DIFFERENT SIGNAL DIMENSIONS FOR 3GPP LTE	[redacted]	[redacted]	CNT	PAT-Active	US	13/895555	9300504	US-2013-0243118-A1		
3336	MOBILE DEVICE TRANSMITTER AND METHODS FOR TRANSMITTING SIGNALS IN DIFFERENT SIGNAL DIMENSIONS FOR 3GPP LTE	[redacted]	[redacted]	CNT	PAT-Active	US	15/003549	9722683	US-2016-0142120-A1		
3337	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	NP	PAT-Active	CN	2010106248394	ZL2010106 248394	102340474		
3338	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	DIV	PAT-Active	CN	2016105173171	ZL2016105 173171	106027433		
3339	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	EPT	APP-Pending	EP	108414582		2520053		
3340	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-547097	5714606	2013-516837		
3341	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	DIV	PAT-Active	JP	2014-198659	5996595	2015-046888		
3342	CLOSE-LOOP POWER AMPLIFIER PRE-DISTORTION CORRECTION	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-217589	6054497	2016-026459		
3343	FREQUENCY AND TIMING OFFSET ESTIMATION ALGORITHM FOR DTV (DVB-T2) RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	12/956565	8472540	US-2012-0134398-A1		
3344	DYNAMIC INTERFERENCE MITIGATION FOR CELLULAR NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/956562	8700085	US-2012-0135763-A1		
3345	DYNAMIC INTERFERENCE MITIGATION FOR CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800576260	ZL2011800 576260	103229430		
3346	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	117510743	2543222	2543222	Yes	
3347	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	117510743	2543222	2543222	Yes	
3348	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	117510743	2543222	2543222	Yes	
3349	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	117510743	2543222	2543222	Yes	
3350	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	117510743	2543222	2543222	Yes	
3351	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	117510743	2543222	2543222	Yes	
3352	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	117510743	2543222	2543222	Yes	
3353	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	117510743	2543222	2543222	Yes	
3354	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	117510743	2543222	2543222	Yes	
3355	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	117510743	2543222	2543222	Yes	
3356	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	117510743	2543222	2543222	Yes	
3357	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IE	117510743	2543222	2543222	Yes	
3358	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	117510743	2543222	2543222	Yes	
3359	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	117510743	2543222	2543222	Yes	
3360	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	14/321688	9215186	US-2014-0313979-A1		
3361	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	14/968638	9912602	US-2016-0337256-A1		
3362	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	CN	2010105475719	ZL2010105 475719	102137501		
3363	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	DE	1020100502723	########	102010050272		
3364	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	JP	2010-240373	5423653	2011-155634		
3365	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/958235	8730827	US-2012-0140713-A1		
3366	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	CN	201610222812X	ZL2016102 22812X	105871428		
3367	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	161121638		1224093		
3368	UPLINK POWER HEADROOM CALCULATION AND REPORTING FOR OFDMA CARRIER AGGREGATION COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/889318	8594718	US-2011-0312366-A1	Yes	
3369	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	PCT	PAT-Active	CN	2010800706556	ZL2010800 706556	103250357		
3370	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	PAT-Active	DE	108582727	########	2628254		
3371	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	PAT-Active	EP	108582727	2628254	2628254		
3372	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	NP	PAT-Active	TW	100136065	I466473	201242284		
3373	ALLOCATING A CONTROL CHANNEL FOR CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	12/967652	8626218	US-2011-0269492-A1	Yes	
3374	ALLOCATING A CONTROL CHANNEL FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/275608	8843168	US-2012-0034945-A1	Yes	
3375	MONITORING A CONTROL CHANNEL FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/969966	8983516	US-2013-0336263-A1	Yes	
3376	ALLOCATING A CONTROL CHANNEL FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/482107	9591642	US-2015-0029984-A1	Yes	
3377	ALLOCATING A CONTROL CHANNEL FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/405050	10231226	US-2017-0127391-A1	Yes	
3378	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	12/975725	8537718	US-2011-0267978-A1	Yes	
3379	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/299765	8743734	US-2012-0063357-A1	Yes	
3380	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/299800	9338772	US-2012-0063358-A1	Yes	
3381	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/150286	10165560	US-2016-0255630-A1	Yes	
3382	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	CN	2011101251164	ZL2011101 251164	102238692	Yes	
3383	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	DIV	PAT-Active	CN	2014102915876	ZL2014102 915876	104065467	Yes	
3384	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	EPA	APP-Pending	EP	111631248		2385653	Yes	
3385	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	JP	2011-088896	5317367	2012-015992	Yes	
3386	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	DIV	PAT-Active	JP	2013-142951	5688125	2013-243725	Yes	
3387	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/977797	8619654	US-2012-0039226-A1		
3388	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVELAY NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800469095	ZL2011800 469095	103119989		
3389	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	100127375	I516145	201212667		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3390	CONFIGURABLE COMMON REFERENCE SIGNAL PORT FOR REFERENCE SIGNAL RECEIVED POWER IN DISTRIBUTED ANTENNA SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/928758	8706077	US-2012-0038521-A1		
3391	METHOD OF DETERMINING REFERENCE SIGNAL RECEIVED POWER IN A DISTRIBUTED ANTENNA SYSTEM AND ASSOCIATED DEVICE	[redacted]	[redacted]	PCD	APP-Pending	CN	2015107847314		105554797		
3392	METHOD AND RELATED APPARATUS FOR DETERMINING REFERENCE SIGNAL RECEIVED POWER IN DISTRIBUTED ANTENNA SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	161068009		1219014		
3393	CABLE ANTENNA APPARATUS AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/957208	9799943	US-2012-0133565-A1		
3394	DYNAMIC BANDWIDTH CONTROL IN INTERFERENCE SITUATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/969771	8619640	US-2012-0155294-A1		
3395	DYNAMIC BANDWIDTH CONTROL IN INTERFERENCE SITUATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/045484	9608795	US-2014-0098760-A1		
3396	DYNAMIC BANDWIDTH CONTROL IN INTERFERENCE SITUATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2013-544500	5687771	2013-546286		
3397	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/975827	8787337	US-2012-0039313-A1	Yes	
3398	TECHNIQUES FOR UPDATE PROCEDURE SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/219240	9781543	US-2014-0204931-A1	Yes	
3399	TECHNIQUES FOR UPDATE PROCEDURE SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/992576	10462631	US-2018-0279102-A1	Yes	
3400	TECHNIQUES FOR UPDATE PROCEDURE SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/687313	10015622	US-2017-0359673-A1	Yes	
3401	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800468779	ZL2011800 468779	103119971	Yes	
3402	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	CN	2013104255787	ZL2013104 255787	103501490	Yes	
3403	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Pending	CN	2017103004347		107276700	Yes	
3404	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	171128845		1239965	Yes	
3405	TECHNIQUES FOR INITIATING COMMUNICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	12/976217	8532030	US-2011-0268052-A1		
3406	TECHNIQUES FOR DYNAMIC SPECTRUM MANAGEMENT ALLOCATION AND SHARING	[redacted]	[redacted]	NP	PAT-Active	US	13/029439	8873480	US-2012-0082100-A1		
3407	TECHNIQUES FOR DYNAMIC SPECTRUM MANAGEMENT ALLOCATION AND SHARING	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800579150	ZL2011800 579150	103222293		
3408	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	NP	PAT-Active	US	13/077745	9872307	US-2012-0082077-A1	Yes	
3409	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	CNT	APP-Pending	US	14/582110		US-2015-0109976-A1	Yes	
3410	APPARATUS AND METHOD OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800580016	ZL2011800 580016	103222205	Yes	
3411	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCD	APP-Pending	CN	2015104404333		105101174	Yes	
3412	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	PAT-Active	EP	118299536	2622761	2622761	Yes	
3413	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	PAT-Active	DE	118299536	2622761	2622761	Yes	
3414	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	PAT-Active	FR	118299536	2622761	2622761	Yes	
3415	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	PAT-Active	GB	118299536	2622761	2622761	Yes	
3416	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	PAT-Active	NL	118299536	2622761	2622761	Yes	
3417	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	FPD	APP-Pending	HK	161001429		1212538	Yes	
3418	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	NP	PAT-Active	TW	100135587	I467991	201230746	Yes	
3419	USER EQUIPMENT EVOLVED NODE B AND COMPUTER-READABLE STORAGE MEDIUM FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	DIV	PAT-Active	TW	103137639	I587673	201524171	Yes	
3420	USER EQUIPMENT EVOLVED NODE B AND COMPUTER-READABLE STORAGE MEDIUM FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	DIV	PAT-Active	TW	106109979	I656770	201739229	Yes	
3421	COORDINATED MULTIPOINT COMMUNICATION NETWORK WITH MULTIPLE COOPERATING eNBs AND METHOD FOR BEAMFORMING COORDINATION WITH INTERFERENCE SUPPRESSION	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800026966	ZL2011800 026966	102742173		
3422	COORDINATED MULTIPOINT COMMUNICATION NETWORK WITH MULTIPLE COOPERATING eNBs AND METHOD FOR BEAMFORMING COORDINATION WITH INTERFERENCE SUPPRESSION	[redacted]	[redacted]	PCT	PAT-Active	US	13/883390	9197371	US-2013-0250885-A1		
3423	PMI FEEDBACK WITH CODEBOOK INTERPOLATION	[redacted]	[redacted]	NP	PAT-Active	US	13/077905	8711907	US-2012-0082190-A1		
3424	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	NP	PAT-Active	US	13/075320	8644289	US-2012-0113830-A1	Yes	
3425	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	CNT	PAT-Active	US	14/160931	9197372	US-2014-0133445-A1	Yes	
3426	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	CNT	PAT-Active	US	14/887499	9525471	US-2016-0094283-A1	Yes	
3427	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	CNT	PAT-Active	US	15/373366	9843367	US-2017-0155435-A1	Yes	
3428	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800643848	ZL2011800 643848	103444115	Yes	
3429	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	PCD	APP-Pending	CN	2016108025788		106160818	Yes	
3430	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	FPD	APP-Pending	HK	171006584		1227189	Yes	
3431	APPARATUS SYSTEMS AND METHODS UTILIZING ADJACENT-CHANNEL POWER DEPENDENT AUTOMATIC GAIN CONTROL FOR DIGITAL TELEVISION DEMODULATION	[redacted]	[redacted]	NP	PAT-Active	US	13/032079	8582035	US-2012-0212675-A1		
3432	APPARATUS SYSTEMS AND METHODS UTILIZING ADJACENT-CHANNEL POWER DEPENDENT AUTOMATIC GAIN CONTROL FOR DIGITAL TELEVISION DEMODULATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/047098	8817195	US-2014-0036157-A1		
3433	APPARATUS SYSTEMS AND METHODS UTILIZING ADJACENT-CHANNEL POWER DEPENDENT AUTOMATIC GAIN CONTROL FOR DIGITAL TELEVISION DEMODULATION	[redacted]	[redacted]	NP	PAT-Active	CN	2012100528297	ZL2012100 528297	102651807		
3434	COORDINATED MULTI-POINT TRANSMISSION USING INTERFERENCE FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	13/075023	8687727	US-2012-0114028-A1		
3435	COORDINATED MULTI-POINT TRANSMISSION USING INTERFERENCE FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800525818	ZL2011800 525818	103168432		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3436	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	NP	PAT-Active	US	13/041125	8638738	US-2011-0216722-A1		
3437	USER EQUIPMENT AND METHOD FOR CONTENTION-BASED COMMUNICATIONS OVER ALLOCATED PUSCH RESOURES	[redacted]	[redacted]	CNT	PAT-Active	US	14/165038	9578659	US-2014-0140304-A1		
3438	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800168647	ZL2011800168647	102823316		
3439	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCD	PAT-Active	CN	2014108417145	ZL2014108417145	104579563		
3440	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	EPT	APP-Pending	EP	117514885		2543225		
3441	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3442	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3443	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3444	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3445	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCT	PAT-Active	JP	2012-556281	5559366	2013-521723		
3446	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2012-7025989	10-1479959	10-2012-0139772		
3447	USER EQUIPMENT AND METHOD FOR CONTENTION-BASED COMMUNICATIONS OVER ALLOCATED PUSCH RESOURCES	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2014-7004272	10-1548890	10-2014-0027571		
3448	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCT	PAT-Active	RU	2012142339	2516652	2012142339		
3449	TECHNIQUES FOR ALLOCATION OF CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800468529	ZL2011800468529	103119875		
3450	DELIVERY OF MULTICAST AND BROADCAST SERVICES CONCURRENTLY WITH UNICAST DATA	[redacted]	[redacted]	NP	PAT-Active	US	13/154809	8780876	US-2012-0039229-A1	Yes	
3451	DELIVERY OF MULTICAST AND BROADCAST SERVICES CONCURRENTLY WITH UNICAST DATA	[redacted]	[redacted]	CNT	PAT-Active	US	14/244355	9883432	US-2014-0293862-A1	Yes	
3452	DELIVERY OF MULTICAST AND BROADCAST SERVICES CONCURRENTLY WITH UNICAST DATA	[redacted]	[redacted]	CNT	PAT-Active	US	14/335179	9107124	US-2014-0328243-A1	Yes	
3453	DELIVERY OF MULTICAST AND BROADCAST SERVICES CONCURRENTLY WITH UNICAST DATA	[redacted]	[redacted]	CNT	PAT-Active	US	15/814126	10244443	US-2018-0146405-A1	Yes	
3454	DELIVERY OF MULTICAST AND BROADCAST SERVICES CONCURRENTLY WITH UNICAST DATA	[redacted]	[redacted]	CNT	PAT-Active	US	14/788709	9693274	US-2015-0304917-A1	Yes	
3455	FRAMEWORK FOR COORDINATED MULTIPOINT TRANSMISSION BASED ON A MULTICELL MAC/RRC DESIGN	[redacted]	[redacted]	NP	PAT-Active	US	13/165946	8804593	US-2012-0082082-A1		
3456	MULTI USER MIMO DETECTION UTILIZING AVERAGED SPATIAL WHITENING	[redacted]	[redacted]	NP	PAT-Active	US	13/175055	8711985	US-2013-0003896-A1		
3457	MULTI USER MIMO DETECTION UTILIZING AVERAGED SPATIAL WHITENING	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800378160	ZL2012800378160	103703735		
3458	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/174392	8768393	US-2013-0005376-A1		
3459	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800325568	ZL2012800325568	103620974		
3460	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	FPR	PAT-Active	HK	141088356	1195683	1195683		
3461	RECEIVER WITH IMPROVED NOISE VARIANCE ESTIMATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/993488	9614560	US-2016-0191088-A1		
3462	PRESISTENT LOGICAL DATA TUNNELS	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800534183	ZL2011800534183	103190089		
3463	HIGHER ORDER MU-MIMO FOR LTE-A	[redacted]	[redacted]	PCT	PAT-Active	CN	201180075133X	ZL2011800075133X	103947130		
3464	HIGHER ORDER MU-MIMO FOR LTE-A	[redacted]	[redacted]	PCT	PAT-Active	US	13/995155	9807617	US-2013-0265980-A1		
3465	HIGHER ORDER MU-MIMO FOR LTE-A	[redacted]	[redacted]	CNT	PAT-Active	US	15/717687	10375580	US-2018-0035302-A1		
3466	CO-PHASING OF TRANSMISSIONS FROM MULTIPLE INFRASTRUCTURE NODES	[redacted]	[redacted]	PCT	PAT-Active	US	13/995158	9559884	US-2013-0288728-A1		
3467	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/173338	8590023	US-2013-0007853-A1	Yes	
3468	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/083028	9084081	US-2014-0080450-A1	Yes	
3469	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/731668	9906940	US-2015-0350871-A1	Yes	
3470	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/873537	10349263	US-2018-0242137-A1	Yes	668
3471	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	2012102205740	ZL2012102205740	102857997	Yes	
3472	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	CN	2015107027974		105376219	Yes	
3473	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	ETD	APP-Pending	EP	151922549		2996306	Yes	
3474	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	NP	PAT-Active	JP	2012-128614	5643784	2013-017164	Yes	
3475	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	JP	2014-223143	5918337	2015-027109	Yes	
3476	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	JP	2015-242537	6142420	2016-034166	Yes	
3477	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7002621	10-1547541	10-2014-0031386	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3478	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7006635	10-1589423	10-2015-0039223	Yes	
3479	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7033200	10-1662607	10-2015-0138406	Yes	
3480	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800697551	ZL2011800 697551	103430606		
3481	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	EP	118603448	2684408	2684408		
3482	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	AT	118603448	2684408	2684408		
3483	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	BE	118603448	2684408	2684408		
3484	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	CH	118603448	2684408	2684408		
3485	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	DE	118603448	2684408	2684408		
3486	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	EE	118603448	2684408	2684408		
3487	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	ES	118603448	2684408	2684408		
3488	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	FR	118603448	2684408	2684408		
3489	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	GB	118603448	2684408	2684408		
3490	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	GR	118603448	2684408	2684408		
3491	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	HU	118603448	2684408	2684408		
3492	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	IE	118603448	2684408	2684408		
3493	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	NL	118603448	2684408	2684408		
3494	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	PAT-Active	SK	118603448	2684408	2684408		
3495	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800760432	ZL2011800 760432	103999524	Yes	
3496	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	118789619	2798889	2798889	Yes	
3497	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	118789619	2798889	2798889	Yes	
3498	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	118789619	2798889	2798889	Yes	
3499	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	118789619	2798889	2798889	Yes	
3500	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	118789619	2798889	2798889	Yes	
3501	TECHNIQUES TO TRAIN A PERSONAL AREA NETWORK COMPONENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800737915	ZL2011800 737915	103828416		
3502	TECHNIQUES TO TRAIN A PERSONAL AREA NETWORK COMPONENT	[redacted]	[redacted]	PCT	PAT-Active	US	13/997222	9078271	US-2013-0315217-A1		
3503	TECHNIQUES TO TRAIN A PERSONAL AREA NETWORK COMPONENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/792387	9661646	US-2016-0165618-A1		
3504	DIGITALLY-SCALABLE TRANSFORMER COMBINING POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	13/250983	8502598	US-2013-0082772-A1		
3505	DIGITALLY-SCALABLE TRANSFORMER COMBINING POWER AMPLIFIER	[redacted]	[redacted]	EPT	APP-Pending	EP	128373792		2761741		
3506	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800756418	ZL2011800 756418	103988422		
3507	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCD	PAT-Active	CN	201510572576X	ZL2015105 72576X	105187013		
3508	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	EPT	APP-Pending	EP	118782903		2795790		
3509	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	ETD	APP-Pending	EP	151892320		2999112		
3510	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	FPD	APP-Pending	HK	161010990		1213371		
3511	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-545873	6357105	2015-503296		
3512	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-173626	6430348	2015-228702		
3513	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCT	PAT-Active	US	13/997592	9093950	US-2013-0309983-A1		
3514	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	CNT	PAT-Active	US	14/754108	9473068	US-2015-0372643-A1		
3515	DUAL MODE VOLTAGE REGULATOR WITH RECONFIGURATION CAPABILITY	[redacted]	[redacted]	PCT	PAT-Active	US	13/997306	9577523	US-2015-0042295-A1		
3516	CONTROL AND DATA PLANE SOLUTIONS FOR CARRIER-AGGREGATION BASED WLAN OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800719724	ZL2011800 719724	103782622		
3517	CONTROL AND DATA PLANE SOLUTIONS FOR CARRIER-AGGREGATION BASED WLAN OFFLOAD	[redacted]	[redacted]	CNT	PAT-Active	US	14/675098	9426689	US-2015-0208274-A1		
3518	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800705100	ZL2011800 705100	103493392	Yes	
3519	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	CN	201610694403X		106301500	Yes	
3520	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	APP-Pending	EP	181802331		3416300	Yes	
3521	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	171023020		1229080	Yes	
3522	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/976898	9445299	US-2013-0287139-A1	Yes	
3523	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/205964	10034195	US-2016-0323027-A1	Yes	
3524	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	16/037893	10306508	US-2018-0324629-A1	Yes	
3525	SYSTEM AND METHOD OF CHANNEL CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800704930	ZL2011800 704930	103493452		
3526	SYSTEM AND METHOD OF CHANNEL CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/998000	9998944	US-2014-0161004-A1		
3527	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800704983	ZL2011800 704983	103503393	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3528	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	118642958		2702759	Yes	
3529	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/976005	8817755	US-2013-0294423-A1	Yes	
3530	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/455089	9473372	US-2014-0348115-A1	Yes	
3531	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/295934		US-2019-0037432-A1	Yes	
3532	SYSTEM AND METHOD OF MANAGING WIRELESS COMMUNICATIONS WITH MULTIPLE TRANSMISSION POINTS	[redacted]	[redacted]	PCT	PAT-Active	CN	201180070501X	ZL2011800705011	103503327		
3533	SYSTEM AND METHOD OF MANAGING WIRELESS COMMUNICATIONS WITH MULTIPLE TRANSMISSION POINTS	[redacted]	[redacted]	PCT	PAT-Active	US	13/976464	10034194	US-2014-0355528-A1		
3534	TECHNIQUES FOR MACHINE-TO-MACHINE DEVICE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	13/976486		US-2013-0265932-A1	Yes	
3535	MACHINE-TO-MACHINE (M2M) COMMUNICATIONS USING SHORT MESSAGE SERVICES (SMS)	[redacted]	[redacted]	PCT	PAT-Active	US	13/994115	9344835	US-2014-0073367-A1		
3536	MULTI-HOP SINGLE SIGN-ON (SSO) FOR IDENTITY PROVIDER (IdP) ROAMING/PROXY	[redacted]	[redacted]	PCT	PAT-Active	CN	201180072693X	ZL2011800726938	103858457	Yes	
3537	MULTI-HOP SINGLE SIGN-ON (SSO) FOR IDENTITY PROVIDER (IdP) ROAMING/PROXY	[redacted]	[redacted]	PCT	PAT-Active	US	13/995118	9258344	US-2013-0276085-A1	Yes	
3538	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	EPA	PAT-Active	DE	1015790681	########	2355362		
3539	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	EPA	PAT-Active	EP	1015790681	2355362	2355362		
3540	METHOD FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	13/158690	9107163	US-2011-0305215-A1		
3541	METHOD FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	201110204883	ZL2011102048837	102300294		
3542	METHOD FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	EPA	PAT-Active	DE	1116938258	########	2395797		
3543	METHOD FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	EPA	PAT-Active	EP	1116938258	2395797	2395797		
3544	METHOD FOR FINE RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310072636	ZL2013100726365	103312647		
3545	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	DE	1215868022	########	2637312		
3546	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	DE	1215868022	########	2637311		
3547	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	EP	1215868022	2637312	2637312		
3548	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	EP	1215868227	2637311	2637311		
3549	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	AU	2013374908	########	2013374908	Yes	
3550	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	AU	2016277717	########	2016277717	Yes	
3551	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Pending	BR	112014003031-6		112014003031-6	Yes	
3552	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	CA	2844411	2844411	2844411	Yes	
3553	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	CN	201510869506	ZL2015108695060	105357738	Yes	
3554	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	DE	1120111055196	########	1120111055196	Yes	
3555	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	DE	1120111060912	########		Yes	
3556	EXTENDED ACCESS BARRING	[redacted]	[redacted]	EPT	APP-Pending	EP	118705201		2742736	Yes	
3557	EXTENDED ACCESS BARRING	[redacted]	[redacted]	EPD	APP-Pending	EP	1615814671		3062562	Yes	
3558	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3559											
3560											
3561											
3562											
3563											
3564	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	GB	1403415	2507220	2507220	Yes	
3565	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	GB	1603962	2533506	2533506	Yes	
3566	EXTENDED ACCESS BARRING	[redacted]	[redacted]	FPD	APP-Pending	HK	1610523		1217364	Yes	
3567	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	IL	230890	230890	230890	Yes	
3568	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Pending	IN	1080/CHENP/2014			Yes	
3569	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-525002	5860149	2014-522199	Yes	
3570	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-246293	6097814	2016-076990	Yes	
3571	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-028561	6400759	2017-108439	Yes	
3572	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7004488	10-1959847	10-2014-0039533	Yes	
3573	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7003035	10-1657929	10-2016-0012244	Yes	
3574	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7024601	10-1783445	10-2016-0108603	Yes	
3575	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014700298	MY-157889-A		Yes	
3576	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	APP-Pending	MY	PI2017704795			Yes	
3577	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	RU	2014107660	2596602	2014107660	Yes	
3578	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	SG	201400804-3	2014006036-3		Yes	
3579	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	US	13/994117	9264979	US-2014-0128029-A1	Yes	
3580	EXTENDED ACCESS BARRING	[redacted]	[redacted]	CNT	PAT-Active	US	14/924364	9615314	US-2016-0050615-A1	Yes	
3581	EXTENDED ACCESS BARRING	[redacted]	[redacted]	CNT	PAT-Active	US	15/439390	9974004	US-2017-0164269-A1	Yes	
3582	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCD	PAT-Active	US	14/992734	9655029	US-2016-0127985-A1	Yes	
3583	EXTENDED ACCESS BARRING	[redacted]	[redacted]	CNT	PAT-Active	US	15/486916	10070373	US-2017-0223609-A1	Yes	
3584	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	ZA	2014/00856	2014/00856		Yes	
3585	PROCESSOR EXTENSIONS FOR ACCELERATING SPECTRAL BAND REPLICATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/481225	8589634	US-2012-0265329-A1		
3586	TIMESLOT SCHEDULING IN DIGITAL AUDIO AND HYBRID AUDIO RADIO SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	12/154882	8199769	US-2008-0291857-A1		
3587	TIMESLOT SCHEDULING IN DIGITAL AUDIO AND HYBRID AUDIO RADIO SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	13/463725	8824447	US-2012-0213217-A1		
3588	DIGITAL RADIO BROADCAST TRANSMISSION USING A TABLE OF CONTENTS	[redacted]	[redacted]	NP	PAT-Active	US	12/773835	8320833	US-2010-0309960-A1		
3589	WIRELESS WIDE AREA NETWORK (WWAN) ASSISTED PROXIMITY WIRELESS LOCAL AREA NETWORK (WLAN) PEER-TO-PEER (P2P) CONNECTION AND OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	CN	201180075724	ZL2011800757247	103988566		
3590	WIRELESS WIDE AREA NETWORK (WWAN) ASSISTED PROXIMITY WIRELESS LOCAL AREA NETWORK (WLAN) PEER-TO-PEER (P2P) CONNECTION AND OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	US	13/997253	9813843	US-2014-0115056-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3591	STRUCTURED CODEBOOK FOR UNIFORM CIRCULAR ARRAY (UCA)	[redacted]	[redacted]	PCT	PAT-Active	CN	201180073130Z	ZL2011800731302	103782523		
3592	STRUCTURED CODEBOOK FOR UNIFORM CIRCULAR ARRAY (UCA)			PCT	PAT-Active	US	13/993679	9313747	US-2013-0336152-A1		
3593	METHOD TO SUPPORT AN ASYMMETRIC TIME-DIVISION DUPLEX (TDD) CONFIGURATION IN A HETEROGENEOUS NETWORK (HETNET)	[redacted]	[redacted]	PCT	PAT-Active	US	13/994108	9504084	US-2013-0343241-A1		
3594	WIRELESS MODULE AND METHOD FOR LOCAL IP ACCESS PACKET DATA NETWORK RELEASE	[redacted]	[redacted]	PCT	PAT-Active	US	13/991362	9398503	US-2014-0177590-A1		
3595	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	201180069736Y	ZL2011800697369	103430890	Yes	
3596	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PCD	PAT-Active	CN	201510923753X	ZL2015109237538	105429859	Yes	
3597	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	DIV	APP-Pending	CN	201710680847.7	237638	107453804	Yes	
3598	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PPD	APP-Pending	HK	1031012184		1242060	Yes	
3599	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EP	11860277.0	2684322	2684322	Yes	
3600	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	AT	11860277.0	2684322	2684322	Yes	
3601	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	BE	11860277.0	2684322	2684322	Yes	
3602	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	CH	11860277.0	2684322	2684322	Yes	
3603	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	ETD	APP-Pending	EP	16150853.4		3073780	Yes	
3604	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	DE	11860277.0	2684322	2684322	Yes	
3605	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EE	11860277.0	2684322	2684322	Yes	
3606	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	ES	11860277.0	2684322	2684322	Yes	
3607	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	FR	11860277.0	2684322	2684322	Yes	
3608	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GB	11860277.0	2684322	2684322	Yes	
3609	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GR	11860277.0	2684322	2684322	Yes	
3610	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	HU	11860277.0	2684322	2684322	Yes	
3611	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	IE	11860277.0	2684322	2684322	Yes	
3612	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	NL	11860277.0	2684322	2684322	Yes	
3613	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	SK	11860277.0	2684322	2684322	Yes	
3614	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PPD	APP-Pending	HK	1030553550		1217389	Yes	
3615	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	13/976855	9338748	US-2014-0051485-A1	Yes	
3616	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	14/951285	9942850	US-2016-0081029-A1	Yes	
3617	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	CNT	APP-Pending	US	15/948907		US-2018-0227852-A1	Yes	
3618	DISTRIBUTED ANTENNA SYSTEM AND METHOD FOR ENHANCED POSITIONING			PCT	PAT-Active	US	13/992917	9402233	US-2013-0336224-A1		
3619	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	AU	2017202995	2017202995	2017202995	Yes	
3620	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014002572-0		112014002572-0	Yes	
3621	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CA	2843594	2843594	2843594	Yes	
3622	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380073125X	ZL2013800731259X	103782589	Yes	
3623	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112013054972		112013105497	Yes	
3624	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	11870495.8	2740265	2740265	Yes	
3625	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	11870495.8	2740265	2740265	Yes	
3626	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	11870495.8	2740265	2740265	Yes	
3627	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	11870495.8	2740265	2740265	Yes	
3628	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	EP	15189647.9	2988494	2988494	Yes	
3629	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	AT	15189647.9	2988494	2988494	Yes	
3630	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	BE	15189647.9	2988494	2988494	Yes	
3631	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	CH	15189647.9	2988494	2988494	Yes	
3632	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	DE	15189647.9	[redacted]	2988494	Yes	
3633	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	11870495.8	2740265	2740265	Yes	
3634	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	EE	15189647.9	2988454	2988454	Yes	
3635	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	ES	15189647.9	2988494	2988494	Yes	
3636	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	FR	15189647.9	2988494	2988494	Yes	
3637	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	GB	15189647.9	2988494	2988494	Yes	
3638	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	GR	15189647.9	2988454	2988454	Yes	
3639	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	HU	15189647.9	2988454	2988454	Yes	
3640	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	IE	15189647.9	2988494	2988494	Yes	
3641	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	NL	15189647.9	2988494	2988494	Yes	
3642	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	SK	15189647.9	2988494	2988494	Yes	
3643	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	11870495.8	2740265	2740265	Yes	
3644	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	11870495.8	2740265	2740265	Yes	
3645	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	11870495.8	2740265	2740265	Yes	
3646	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	11870495.8	2740265	2740265	Yes	
3647	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	11870495.8	2740265	2740265	Yes	
3648	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	11870495.8	2740265	2740265	Yes	
3649	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	11870495.8	2740265	2740265	Yes	
3650	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	11870495.8	2740265	2740265	Yes	
3651	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	11870495.8	2740265	2740265	Yes	
3652	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	GB	1400981.5	2506801	2506801	Yes	
3653	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PPR	APP-Pending	HK	14110961.8		3197516	Yes	
3654	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	IL	230727	230727	230727	Yes	
3655	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
3656	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-523911	5857240	2014-527744	Yes	
3657	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-094157	6279512	2015-173477	Yes	
3658	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7005114	10-1604308	10-2014-0044823	Yes	
3659	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014700803	MY-157980-A		Yes	
3660	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014107658	2558736		Yes	
3661	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	SG	201400603-5	201400603-5		Yes	
3662	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	13/976445	9860290	US-2013-0275615-A1	Yes	
3663	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	ZA	2014/00686	2014/00686		Yes	
3664	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112013027378-0		112013027378-0	Yes	
3665	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201180070492G	ZL2011800704926	103493411	Yes	
3666	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201710417898B		107733624	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3667	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	FPD	APP-Pending	HK	18110774.1		1251378	Yes	
3668	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	EPT	APP-Pending	EP	11864289.1		2702711	Yes	
3669	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	FPR	PAT-Active	HK	14105948.6	1192803	1192803	Yes	
3670	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-508337	5800988	2014-517577	Yes	
3671	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-166214	6091025	2016-026428	Yes	
3672	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-019661	6330932	2017-112632	Yes	
3673	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2013-7028626	10-1584877	10-2013-0140154	Yes	
3674	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7014809	10-1906584	10-2015-0069032	Yes	
3675	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7016901	10-1830047	10-2017-0075803	Yes	
3676	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/519312	10051509	US-2015-0139079-A1	Yes	
3677	NETWORK REENTRY OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Ceased	CN	201180067233.1		103053136	Yes	
3678	SYSTEM AND METHOD FOR MANAGING MULTIRADIO COMMUNICATIONS IN A SINGLE DEVICE	[redacted]	[redacted]	EPT	APP-Pending	EP	11868860.1		2727434		
3679	SYSTEM AND METHOD FOR MANAGING MULTIRADIO COMMUNICATIONS IN A SINGLE DEVICE	[redacted]	[redacted]	PCT	PAT-Active	US	13/976895	9398604	US-2013-0273857-A1		
3680	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	12807732.2	2727422	2727422	Yes	
3681	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112013033480-0		112013033480-0	Yes	
3682	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	BR	122016006492-1		122016006492-1	Yes	
3683	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201280042285.4	ZL201280042285.4	103999515	Yes	
3684	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	CN	201610215306.7	ZL201610215306.7	105636239	Yes	
3685	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	12807732.2	##########	2727422	Yes	
3686	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	12807732.2	2727422	2727422	Yes	
3687	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	12807732.2	2727422	2727422	Yes	
3688	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPD	APP-Pending	EP	16160959.9		3048881	Yes	
3689	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3690	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3691	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3692	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3693	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FI	12807732.2	2727422	2727422	Yes	
3694	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	12807732.2	2727422	2727422	Yes	
3695	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	12807732.2	2727422	2727422	Yes	
3696	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	12807732.2	2727422	2727422	Yes	
3697	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	16108736.5		1220852	Yes	
3698	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	12807732.2	2727422	2727422	Yes	
3699	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	430/CHENP/2014		430/CHENP/2014	Yes	
3700	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	IN	201648006900		201648006900	Yes	
3701	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-519080	5833337	2014-521252	Yes	
3702	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7014665	10-1824782	10-2015-0067770	Yes	
3703	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	12807732.2	2727422	2727422	Yes	
3704	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014103447	2558667		Yes	
3705	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SE	12807732.2	2727422	2727422	Yes	
3706	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/127805	9713164	US-2014-0216542-A1	Yes	
3707	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/062572	9538547	US-2016-0192435-A1	Yes	
3708	A DUAL MODE VOLTAGE REGULATOR WITH DYNAMIC RECONFIGURATION CAPABILITY	[redacted]	[redacted]	PCT	APP-Pending	DE	112011106002.5		112011106002		
3709	DUAL MODE VOLTAGE REGULATOR WITH DYNAMIC RECONFIGURATION CAPABILITY	[redacted]	[redacted]	PCT	PAT-Active	US	13/994810	9343963	US-2015-0035507-A1		
3710	METHOD AND DEVICE FOR TRANSMITTING A CHANNEL QUALITY INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/213283	9077490	US-2013-0044616-A1		
3711	METHOD AND DEVICE FOR TRANSMITTING A CHANNEL QUALITY INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	201210294645.9	ZL201210294645.5	102957509		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3712	VERFAHREN UND VORRICHTUNG FUR DAS UBERTAGEN VON KANAL-QUALITATSINFORMATINEON	[redacted]	[redacted]	NP	APP-Pending	DE	1020121075190		102012107519		
3713	TRANSMITTER CIRCUIT AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	13/173488	8917636	US-2013-0003570-A1		
3714	Transmitter circuit for radio communication system eg time division multiple access (TDMA) system has control unit which suppresses transmission of transmission data when transmission power exceeds threshold value Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020121053553	########	102012105355		
3715	RADIO RECEIVER APPARATUS OF A CELLULAR RADIO NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/306081	8938243	US-2013-0137440-A1		
3716	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	NP	PAT-Active	US	13/248117	8682256	US-2013-0084808-A1		
3717	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	EPT	PAT-Active	EP	127693455	2761790	2761790		
3718	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	EPT	PAT-Active	DE	127693455	2761790	2761790		
3719	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	EPT	PAT-Active	FR	127693455	2761790	2761790		
3720	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	EPT	PAT-Active	GB	127693455	2761790	2761790		
3721	COMMUNICATION DEVICES AND FLOW RESTRICTION DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/633228	9756527	US-2013-0094360-A1		
3722	KOMMUNIKATIONSGERÄTE UND FLUSSBEGRENZUNGSEINRICHTUNGEN	[redacted]	[redacted]	NP	APP-Pending	DE	1020121093954		102012109395		
3723	VOLTAGE REGULATOR WITH ADAPTIVE CONTROL	[redacted]	[redacted]	PCT	PAT-Active	US	13/997712	9509214	US-2014-0320102-A1		
3724	SYSTEM AND METHOD FOR PROCESSING TRACE INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013100915576	ZL2013100915576	103324591		
3725	SYSTEM UND VERFAHREN ZUR VERARBEITUNG VON ABLAUFVERFOLGUNGSINFORMATIONEN	[redacted]	[redacted]	NP	APP-Pending	DE	1020131029124		102013102912		
3726	SYSTEM HAVING TRACE RESOURCES	[redacted]	[redacted]	NP	PAT-Active	CN	2012105731786	ZL2012105731786	103560924		
3727	TRANSCEIVER SYSTEM AND METHOD FOR CANCELLATION OF RF SECOND-ORDER INTERMODULATION DISTORTION	[redacted]	[redacted]	NP	PAT-Active	CN	2013100500953	ZL2013100500953	103248392		
3728	AUFHEBUNG EINER HF-INTERMODULATIONSVERZERRUNG ZWEITER ORDNUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020132023545		102013202354		
3729	AUFHEBUNG EINER HF-INTERMODULATIONSVERZERRUNG ZWEITER ORDNUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020132023529		102013202352		
3730	DIVIDER METHOD FOR PROVIDING AN OUTPUT SIGNAL AND EDGE TRACKER	[redacted]	[redacted]	NP	PAT-Active	CN	2013102295826	ZL2013102295826	103488458		
3731	DTC-SYSTEMS WITH HIGH RESOLUTION PHASE ALIGNMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800164674	ZL2012800164674	103444084		
3732	DTC-SYSTEMS MIT HOCHAUFLÖSUNGSPHASENABGLEICH	[redacted]	[redacted]	NP	PAT-Active	DE	1020110894268	########	102011089426		
3733	DTC-SYSTEMS MIT HOCHAUFLÖSUNGSPHASENABGLEICH	[redacted]	[redacted]	DIV	APP-Pending	DE	1020111229039		102011122903		
3734	DTC System with High Resolution Phase Alignment	[redacted]	[redacted]	PCT	PAT-Active	US	13/976677	9077375	US-2014-0002288-A1		
3735	METHOD AND FACULTY TO MEASURE AND COMPENSATE DCO FREQUENCY DISTORTIONS USING A DPLL	[redacted]	[redacted]	NP	PAT-Active	US	13/326712	8638878	US-2013-0156129-A1		
3736	Method and Faculty to Measure and Compensate DCO Frequency Distortions using a DPLL	[redacted]	[redacted]	CNT	PAT-Active	US	14/105849	8923461	US-2014-0112423-A1		
3737	METHOD AND FACULTY TO MEASURE AND COMPENSATE DCO FREQUENCT DISTORTIONS USING A DPLL	[redacted]	[redacted]	NP	PAT-Active	CN	2012105413228	ZL2012105413228	103166635		
3738	COMMUNICATION SYSTEM FOR EMPLOYING POLAR MODULATION IN PORTABLE HAND-HELD DEVICE HAS SUMMATION COMPONENT RECEIVING PHASE MODULATION AND CORRECTION SIGNALS AND GENERATING CORRECTED PHASE MODULATION SIGNAL TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020122229523	########	102012222952		
3739	DC/DC CONVERTER METHOD FOR PROVIDING AN OUTPUT VOLTAGE ON THE BASIS OF AN INPUT VOLTAGE AND COMPUTER PROGRAM	[redacted]	[redacted]	NP	PAT-Active	US	13/231482	9219411	US-2013-0063100-A1		
3740	DC/DC CONVERTER AND METHOD FOR PROVIDING AN OUTPUT VOLTAGE ON THE BASIS OF AN INPUT VOLTAGE	[redacted]	[redacted]	NP	PAT-Active	CN	201210337614X	ZL201210337614X	103001486		
3741	Direct current-direct current converter used in battery powered device has drive signal generator for adapting a setting of pulse generation so that length of first pulse following pulse skipping is larger than minimum length of pulse Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020122161333		102012216133		
3742	COMMON MODE REJECTION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/304438	8773211	US-2013-0135057-A1		
3743	COMMON MODE REJECTION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	CN	2012105957250	ZL2012105957250	103138692		
3744	COMMON MODE REJECTION CIRCUIT	[redacted]	[redacted]	DIV	APP-Pending	CN	2016108429052		107093983		
3745	METHOD FOR RECEIVING INFORMATION AND COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	13/316708	9743343	US-2013-0150105-A1		
3746	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800738903	ZL2011800738903	103828431	Yes	
3747	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	PAT-Active	US	13/995173	9210532	US-2014-0256324-A1	Yes	
3748	RESOURCE SCHEDULING FOR MACHIN-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	201180072245X	ZL2011800722245X	103650371	Yes	
3749	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	GB	14004089	2509250	2509250	Yes	
3750	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7018085	10-1788424	10-2015-0086387	Yes	
3751	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	13/995174	9451386	US-2014-0010187-A1	Yes	
3752	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	118705888	2742614	2742614	Yes	
3753	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112014003030-8		112014003030-8	Yes	
3754	METHOD AND APPARATUS FOR SWITCHING FROM MBMS DOWNLOAD TO AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800731980	ZL2011800731980	103748810	Yes	
3755	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	118705888	########	2742614	Yes	
3756	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	118705888	2742614	2742614	Yes	
3757	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	118705888	2742614	2742614	Yes	
3758	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	118705888	2742614	2742614	Yes	
3759	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	118705888	2742614	2742614	Yes	
3760	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	118705888	2742614	2742614	Yes	
3761	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	118705888	2742614	2742614	Yes	
3762	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	118705888	2742614	2742614	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3763	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	1082/CHENP/2014		1082/CHENP/2014	Yes	
3764	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-525000	5706046	2014-525699	Yes	
3765	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7005141	10-1497287	10-2014-0041912	Yes	
3766	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	118705888	2742614	2742614	Yes	
3767	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014107662	2557256		Yes	
3768	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	118705888	2742614	2742614	Yes	
3769	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/994118	9887852	US-2015-0288530-A1	Yes	
3770	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTPP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/581747	9960926	US-2015-0131657-A1	Yes	
3771	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTPP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	15/881620		US-2018-0152309-A1	Yes	
3772	METHOD AND APPARATUS FOR ASSOCIATION BIASING IN A HETEROGENEOUS NETWORK (HETNET)	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800422939	ZL2012800422939	103891159		
3773	ASSOCIATION BIASING FOR A HETEROGENEOUS NETWORK (HetNet)	[redacted]	[redacted]	PCT	PAT-Active	US	13/994119	9271249	US-2014-0185523-A1		
3774	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	AU	2011372512	########	2011372512	Yes	
3775	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	AU	2017203697	########	2017203697	Yes	
3776	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	BR	112013033990-0		112013033990-0	Yes	
3777	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CA	2840867	2840867	2840867	Yes	
3778	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	APP-Pending	CA	2982151		2982151	Yes	
3779	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800725937	ZL2011800725937	103891180	Yes	
3780	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	CN	2015107841642	ZL2015107841642	105337652	Yes	
3781	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	DE	1120111054033		112011105403	Yes	
3782	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EP	118690437	2727268	2727268	Yes	
3783	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	AT	118690437	2727268	2727268	Yes	
3784	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	BE	118690437	2727268	2727268	Yes	
3785	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	CH	118690437	2727268	2727268	Yes	
3786	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	DE	118690437	2727268	2727268	Yes	
3787	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EE	118690437	2727268	2727268	Yes	
3788	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	ES	118690437	2727268	2727268	Yes	
3789	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	FR	118690437	2727268	2727268	Yes	
3790	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GB	118690437	2727268	2727268	Yes	
3791	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GR	118690437	2727268	2727268	Yes	
3792	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	HU	118690437	2727268	2727268	Yes	
3793	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	IE	118690437	2727268	2727268	Yes	
3794	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	NL	118690437	2727268	2727268	Yes	
3795	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	SK	118690437	2727268	2727268	Yes	
3796	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	GB	13231204	2505842	2505842	Yes	
3797	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	GB	15217946	2535297	2535297	Yes	
3798	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	GB	17040643	2546193	2546193	Yes	
3799	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	FPR	APP-Pending	HK	141052811		1192381	Yes	
3800	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	FPD	APP-Pending	HK	161043205		1216466	Yes	
3801	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	IL	230255	230255	230255	Yes	
3802	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	IL	248787	248787	248787	Yes	
3803	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	IN	387/CHENP/2014		387/CHENP/2014	Yes	
3804	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-518541	5841248	2014-524194	Yes	
3805	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-222018	6088026	2016-048948	Yes	
3806	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7002378	10-1967494	10-2014-0036009	Yes	
3807	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
3808	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	PH	1-2014-500034	1-2014-500034		Yes	
3809	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	RU	2014103444	2562056	2014103444	Yes	
3810	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	SG	201309679-7	196006		Yes	
3811	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	US	13/994113	9642180	US-2014-0126487-A1	Yes	
3812	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	15/582354	9936495	US-2017-0238288-A1	Yes	
3813	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	15/908708	10194433	US-2018-0192407-A1	Yes	
3814	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	ZA	2014/00181	2014/00181		Yes	
3815	TECHNOLOGY FOR CSI FEEDBACK IN A MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/994745	9319118	US-2014-0112406-A1	Yes	
3816	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112014002694-7		112014002694-7	Yes	
3817	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800731425	ZL2011800731425	103765968	Yes	
3818	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2018107953482		108736920	Yes	
3819	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	181159935		1256892	Yes	
3820	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	1081/CHENP/2014		1081/CHENP/2014	Yes	
3821	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7004949	10-1546203	10-2014-0042914	Yes	
3822	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014107942	2569932	2014107942	Yes	
3823	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/994111	9578616	US-2014-0219185-A1	Yes	
3824	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/093628	9999018	US-2016-0227504-A1	Yes	
3825	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/613818	10009864	US-2017-0273045-A1	Yes	
3826	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800760038	ZL2011800760038	104012169		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3827	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	EP	118785583	2798906	2798906		
3828	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	AT	118785583	2798906	2798906		
3829	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	BE	118785583	2798906	2798906		
3830	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	CH	118785583	2798906	2798906		
3831	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	DE	118785583	2798906	2798906		
3832	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	EE	118785583	2798906	2798906		
3833	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	ES	118785583	2798906	2798906		
3834	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	FR	118785583	2798906	2798906		
3835	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	GB	118785583	2798906	2798906		
3836	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	GR	118785583	2798906	2798906		
3837	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	HU	118785583	2798906	2798906		
3838	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	IE	118785583	2798906	2798906		
3839	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	NL	118785583	2798906	2798906		
3840	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	EPT	PAT-Active	SK	118785583	2798906	2798906		
3841	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	APP-Pending	IN	3372/CHENP/2014				
3842	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	PAT-Active	US	13/976996	9510306	US-2014-0185494-A1		
3843	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
3844	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCD	APP-Pending	BR	122016030280-6		122016030280-6		
3845	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCD	APP-Pending	BR	122016030290-3		122016030290-3		
3846	NEAR FIELD CO (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800713563	ZL2012800 713563	104508687		
3847	NEAR FIELD CO (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCD	PAT-Active	CN	201510729307X	ZL2015107 29307X	105354524		
3848	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EP	128713666	2826000	2826000		
3849	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	PAT-Active	EP	151913100	3012981	3012981		
3850	NEAR FIELD CO (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	APP-Pending	EP	162055172		3197061		
3851	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	PAT-Active	DE	151913100	3012981	3012981		
3852	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	DE	128713666	2826000	2826000		
3853	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	PAT-Active	FR	151913100	3012981	3012981		
3854	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	PAT-Active	GB	151913100	3012981	3012981		
3855	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	ETD	PAT-Active	NL	151913100	3012981	3012981		
3856	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	FR	128713666	2826000	2826000		
3857	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GB	128713666	2826000	2826000		
3858	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	NL	128713666	2826000	2826000		
3859	NEAR FIELD CO (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500410	5908644	2015-518666		
3860	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-210648	6178379	2016-040940		
3861	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	DIV	PAT-Active	JP	2017-137055	6585125	2017-216707		
3862	NEAR FIELD COMMUNICATIONS (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	13/977576	9048882	US-2014-0220887-A1		
3863	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	14/717093	9444522	US-2015-0333802-A1		
3864	NEAR FIELD COMMUNICATIONS (NFC) AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	15/092334	9553637	US-2016-0218773-A1		
3865	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800759948	ZL2011800 759948	104160630		
3866	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	EPT	PAT-Active	EP	118789668	2798746	2798746		
3867	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	EPT	PAT-Active	DE	118789668	2798746	2798746		
3868	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	EPT	PAT-Active	FR	118789668	2798746	2798746		
3869	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	EPT	PAT-Active	GB	118789668	2798746	2798746		
3870	DETERMINING AN ORDER OF MODULATION FOR EACH TRANSPORT BLOCK BASED ON INITIAL CHANNEL STATE INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/992726	9807723	US-2013-0265972-A1		
3871	TECHNIQUES TO SIMULTANEOUSLY TRANSMIT AND RECEIVE OVER THE SAME RADIO-FREQUENCY CARRIER	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800757459	ZL2011800 757459	103988451		
3872	TECHNIQUES TO SIMULTANEOUSLY TRANSMIT AND RECEIVE OVER THE SAME RADIOFREQUENCY CARRIER	[redacted]	[redacted]	PCT	PAT-Active	US	13/976423	9537543	US-2014-0376416-A1		
3873	DISCONTINUOUS RECEPTION (DRX) CONTROLLER AND METHOD FOR DRX OPERATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/321015	9560590	US-2014-0362754-A1		
3874	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800540013	ZL2012800 540013	104067677		
3875	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	128463478	2774432	2774432		
3876	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	128463478	2774432	2774432		
3877	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	128463478	2774432	2774432		
3878	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	128463478	2774432	2774432		
3879	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	128463478	2774432	2774432		
3880	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	128463478	2774432	2774432		
3881	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	128463478	2774432	2774432		
3882	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	128463478	2774432	2774432		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3883	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	128463478	2774432	2774432		
3884	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	128463478	2774432	2774432		
3885	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	128463478	2774432	2774432		
3886	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	128463478	2774432	2774432		
3887	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	128463478	2774432	2774432		
3888	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	128463478	2774432	2774432		
3889	ACCURATE UPLINK POWER CONTROL FOR COMP AND C-RAN	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800732150	ZL2011800 732150	103931244		
3890	ACCURATE UPLINK POWER CONTROL FOR COMP AND C-RAN	[redacted]	[redacted]	PCT	PAT-Active	US	13/993833	9497713	US-2015-0304960-A1		
3891	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	EP	118702950	2740254	2740254	Yes	
3892	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	AT	118702950	2740254	2740254	Yes	
3893	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	BE	118702950	2740254	2740254	Yes	
3894	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	CH	118702950	2740254	2740254	Yes	
3895	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	DE	118702950	2740254	2740254	Yes	
3896	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	EE	118702950	2740254	2740254	Yes	
3897	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	ES	118702950	2740254	2740254	Yes	
3898	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	FR	118702950	2740254	2740254	Yes	
3899	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	GB	118702950	2740254	2740254	Yes	
3900	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	GR	118702950	2740254	2740254	Yes	
3901	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	HU	118702950	2740254	2740254	Yes	
3902	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	IE	118702950	2740254	2740254	Yes	
3903	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	NL	118702950	2740254	2740254	Yes	
3904	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	EPT	PAT-Active	SK	118702950	2740254	2740254	Yes	
3905	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
3906	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	PAT-Active	US	13/977124	9491673	US-2013-0272252-A1	Yes	
3907	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/345429	9883321	US-2017-0118579-A1	Yes	
3908	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800731482	ZL2011800 731482	103748833		
3909	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	APP-Pending	IN	1079/CHENP/2014				
3910	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	PAT-Active	US	13/976455	9749377	US-2013-0291075-A1		
3911	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	118643071	2702807	2702807	Yes	
3912	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	118643071	2702807	2702807	Yes	
3913	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	118643071	2702807	2702807	Yes	
3914	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800719531	ZL2011800 719531	103843408	Yes	
3915	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2016105334722		106211265	Yes	
3916	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	118643071	########	2702807	Yes	
3917	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	118643071	2702807	2702807	Yes	
3918	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	118643071	2702807	2702807	Yes	
3919	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	118643071	2702807	2702807	Yes	
3920	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	118643071	2702807	2702807	Yes	
3921	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	118643071	2702807	2702807	Yes	
3922	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	118643071	2702807	2702807	Yes	
3923	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	171015404		1228162	Yes	
3924	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	118643071	2702807	2702807	Yes	
3925	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	118643071	2702807	2702807	Yes	
3926	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	118643071	2702807	2702807	Yes	
3927	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	118643071	2702807	2702807	Yes	
3928	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCD	APP-Pending	CN	2017100129406		106888036		
3929	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	FPD	APP-Pending	HK	171078998		1234226		
3930	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	EPT	PAT-Active	EP	118773092	2792079	2792079		
3931	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	ETD	APP-Pending	EP	161987391		3151441		
3932	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	EPT	PAT-Active	DE	118773092	2792079	2792079		
3933	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	EPT	PAT-Active	FR	118773092	2792079	2792079		
3934	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	EPT	PAT-Active	GB	118773092	2792079	2792079		
3935	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	EPT	PAT-Active	NL	118773092	2792079	2792079		
3936	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-547165	5953525	2015-506152		
3937	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCT	PAT-Active	US	13/996516	9350394	US-2014-0018020-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
3938	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCD	PAT-Active	US	15/150104	9705538	US-2016-0254829-A1		
3939	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	CNT	PAT-Active	US	15/341242	10038460	US-2017-0085280-A1		
3940	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112013033476-2		112013033476-2	Yes	
3941	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800424741	ZL2012800424741	103782652	Yes	
3942	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	DIV	PAT-Active	CN	2014104163012	ZL2014104163012	104202739	Yes	
3943	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2018106124148		108718442	Yes	
3944	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	191229707		191229707	Yes	
3945	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	128079514		2727435	Yes	
3946	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3947	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3948	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3949	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
3950	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	141078811	1194595	1194595	Yes	
3951	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	PAT-Active	HK	151028090	1202353	1202353	Yes	
3952	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	318/CHENP/2014		318/CHENP/2014	Yes	
3953	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-153772	6422469	2016-189630	Yes	
3954	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7002504	10-1645106	10-2014-0035504	Yes	
3955	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2014-7030299	10-1617575	10-2014-0140622	Yes	
3956	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014103466	2566981	2014103466	Yes	
3957	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	RU	2015141066	2615502		Yes	
3958	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	RU	2017110256	2653059		Yes	
3959	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/880962	8867476	US-2013-0308564-A1	Yes	
3960	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/285725	8923210	US-2014-0254490-A1	Yes	
3961	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	13/995119	9369822	US-2013-0266000-A1		
3962	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800344304	ZL2012800344304	103650376	Yes	
3963	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	PAT-Active	US	13/997240	9544710	US-2015-0189458-A1	Yes	
3964	SYSTEM AND METHOD OF UPLINK POWER CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/976452	9363780	US-2013-0294390-A1		
3965	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/977004	9525960	US-2014-0274082-A1	Yes	
3966	DECOUPLING ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/331500	8913364	US-2013-0157482-A1		
3967	DECOUPLING ARRANGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/534979	9225164	US-2015-0131190-A1		
3968	DECOUPLING ARRANGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/945762	10015878	US-2016-0309580-A1		
3969	DECOUPLING ARRANGEMENT	[redacted]	[redacted]	CNT	APP-Pending	US	15/675883		US-2018-0270948-A1		
3970	DATABASE COORDINATOR PROCESSOR AND METHOD FOR PROVIDING CERTIFICATION INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/294214	9674706	US-2013-0122889-A1		
3971	DATABASE COORDINATOR PROCESSOR AND METHOD FOR PROVIDING CERTIFICATION INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	2012104459436	ZL2012104459436	103106237		
3972	OPTIMIZATION OF DATA HANDOVER TO WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/336024	8923246	US-2013-0163450-A1		
3973	COMBINING IN RECEIVE DIVERSITY SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	CN	2013102428550	ZL2013102428550	103516413		
3974	DISTORTION ESTIMATION APPARATUS AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	13/408551	9026391	US-2013-0226489-A1		
3975	DISTORTION ESTIMATION APPARATUS AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/677454	9568521	US-2015-0276834-A1		
3976	DISTORTION ESTIMATION APPARATUS METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013100640183	ZL2013100640183	103297155		
3977	VERZERRUNGSSCHÄTZUNGSVORRICHTUNG UND -VERFAHREN	[redacted]	[redacted]	NP	APP-Pending	DE	1020132032722		102013203272		
3978	SECOND-ORDER FILTER WITH NOTCH FOR USE IN RECEIVERS TO EFFECTIVELY SUPPRESS THE TRANSMITTER BLOCKERS	[redacted]	[redacted]	NP	PAT-Active	US	13/405673	9112476	US-2013-0225101-A1		
3979	SECOND-ORDER FILTER WITH NOTCH FOR USE IN RECEIVERS TO EFFECTIVELY SUPPRESS THE TRANSMITTER BLOCKERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/793129	9413326	US-2015-0318836-A1		
3980	SECOND-ORDER FILTER WITH NOTCH FOR USE IN RECEIVERS TO EFFECTIVELY SUPPRESS THE TRANSMITTER BLOCKERS	[redacted]	[redacted]	NP	PAT-Active	CN	2013100612569	ZL2013100612569	103297085		
3981	FILTER ZWEITER ORDNUNG MIT KERBE ZUR VERWENDUNG IN EMPFANGERN ZUM WIRKUNGSVOLLEN UNTERDRUCKEN DER SENDERSPERREN	[redacted]	[redacted]	NP	PAT-Active	DE	1020132031823	########	102013203182		
3982	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/434895	9131480	US-2013-0258953-A1	Yes	
3983	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-503461	6002981	2015-517259	Yes	
3984	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	IN	6572/CHENP/2014		6572/CHENP/2014	Yes	
3985	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7026897	10-1687884	10-2014-0136469	Yes	
3986	WIRELESS COMMUNICATION SYSYTEM WITH COMMON CELL ID	[redacted]	[redacted]	PCT	PAT-Active	US	13/995175	9300509	US-2013-0286997-A1	Yes	
3987	RANDOM BACKOFF FOR EXTENDED ACCESS BARRING	[redacted]	[redacted]	NP	PAT-Active	US	13/538865	9078257	US-2013-0170479-A1		
3988	RANDOM BACKOFF FOR EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800593400	ZL2012800593400	103947282		
3989	TRANSMISSION AND DETECTION IN MULTIPLE-ANTENNA TRANSMISSION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	CN	2013101837451	ZL2013101837451	103427959		
3990	PATCH-BASED PROXIMITY SENSORS ANTENNAS AND CONTROL SYSTEMS TO CONTROL ANTENNAS BASED ON CORRESPONDING PROXIMITY MEASURES	[redacted]	[redacted]	NP	PAT-Active	US	13/538892	9705182	US-2014-0002305-A1		
3991	TRANSMITTERS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	13/835693	8891681	US-2013-0251068-A1		
3992	TRANSMITTER AND METHOD DEVICE AS WELL AS SYSTEM FOR PROVIDING VECTOR-MODULATED AND POLAR-MODULATED OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2013100908074	ZL2013100908074	103368587		
3993	SENDER UND VERFAHREN	[redacted]	[redacted]	NP	APP-Pending	DE	1020122044515		102012204451		
3994	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	CNT	PAT-Active	US	14/806974	9854524	US-2016-0204843-A1	Yes	
3995	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	PCT	PAT-Active	US	13/997219	10070383	US-2015-0223265-A1		
3996	UPLINK POWER CONTROL SIGNALING WITH CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/997221	9635610	US-2015-0351039-A1		
3997	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800482060	ZL2012800482060	103843420	Yes	
3998	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	PAT-Active	DE	128354685	########	2761940	Yes	
3999	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	PAT-Active	EP	128354685	2761940	2761940	Yes	
4000	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	US	13/977009	9370018	US-2013-0272173-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4001	METHODS TO TRANSPORT INTERNET TRAFFIC OVER MULTIPLE WIRELESS NETWORKS SIMULTANEOUSLY	[redacted]	[redacted]	PCT	PAT-Active	US	13/995154	9402264	US-2013-0268628-A1		
4002	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800582196	ZL2012800582196	104115513	Yes	
4003	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EP	128352721	2761901	2761901	Yes	
4004	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	AT	128352721	2761901	2761901	Yes	
4005	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	BE	128352721	2761901	2761901	Yes	
4006	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	CH	128352721	2761901	2761901	Yes	
4007	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	DE	128352721	2761901	2761901	Yes	
4008	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EE	128352721	2761901	2761901	Yes	
4009	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	ES	128352721	2761901	2761901	Yes	
4010	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	FR	128352721	2761901	2761901	Yes	
4011	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GB	128352721	2761901	2761901	Yes	
4012	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GR	128352721	2761901	2761901	Yes	
4013	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	HU	128352721	2761901	2761901	Yes	
4014	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	IE	128352721	2761901	2761901	Yes	
4015	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	NL	128352721	2761901	2761901	Yes	
4016	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	SK	128352721	2761901	2761901	Yes	
4017	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	US	13/977523	9351311	US-2014-0056279-A1	Yes	
4018	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	15/130875	10212661	US-2016-0234815-A1	Yes	
4019	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/997230	9699731	US-2014-0018090-A1		
4020	RESCHEDULING OF A RESOURCE COMPONENT OF LOW POWER NODES (LPNs) IN A COORDINGATION SET	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800480629	ZL2012800480629	103828275		
4021	RESCHEDULING OF A RESOURCE COMPONENT OF LOW POWER NODES (LPNs) IN A COORDINATION SET	[redacted]	[redacted]	PCT	PAT-Active	US	13/997256	9693304	US-2014-0226575-A1		
4022	DISCONTINUOUS RECEPTION IN A WIRELESS DEVICE FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	PAT-Active	US	13/997223	9992742	US-2015-0071179-A1		
4023	CHANNEL STATE INFORMATION FEEDBACK IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/655184	8737514	US-2013-0114658-A1		
4024	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	BR	112014010624-0		112014010624-0	Yes	
4025	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800542875	ZL2012800542875	104025629	Yes	
4026	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	CN	2016102761152		105871429	Yes	
4027	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	CN	2018100049571		108055062	Yes	
4028	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	181086791		1249286	Yes	
4029	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	128452877		2774398	Yes	
4030	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	ETD	APP-Pending	EP	161662044		3062459	Yes	
4031	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	161121665		1224094	Yes	
4032	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	IN	3080/CHENP/2014		3080/CHENP/2014	Yes	
4033	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	IN	201648014617		201648014617	Yes	
4034	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-026362	6267732	2016-129383	Yes	
4035	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	JP	2017-246314	6501210	2018-046580	Yes	
4036	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7012071	10-1605733	10-2014-0072904	Yes	
4037	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7017578	10-1754281	10-2015-0082696	Yes	
4038	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7017675	10-1850668	10-2017-0080706	Yes	
4039	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	RU	2014117724	2587409	2014117724	Yes	
4040	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	RU	2016118360	2643660		Yes	
4041	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	RU	2018102117	2669781		Yes	
4042	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/997588	9320015	US-2014-0003324-A1	Yes	
4043	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/061839	9735998	US-2016-0192415-A1	Yes	
4044	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/645888	10164755	US-2017-0310524-A1	Yes	
4045	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201402626	IDP000051057	2015/05424	Yes	
4046	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	APP-Pending	IN	3078/CHENP/2014			Yes	
4047	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7012103	10-1642204	10-2014-0084128	Yes	
4048	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7019236	10-1806759	10-2016-0088443	Yes	
4049	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/005391	345615	MX/a/2014/005391	Yes	
4050	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014701068	MY-168109-A		Yes	
4051	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	US	13/995468	9497748	US-2013-0279462-A1	Yes	
4052	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	CNT	PAT-Active	US	15/277956	10122565	US-2017-0086173-A1	Yes	
4053	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	APP-Pending	IN	3084/CHENP/2014			Yes	
4054	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	AU	2012333172	########	2012333172	Yes	
4055	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200154	########	2016200154	Yes	
4056	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	PAT-Active	AU	2017261510	########	2017261510	Yes	
4057	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014010785-8		112014010785-8	Yes	
4058	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800542860	ZL2012800542860	104025492	Yes	
4059	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	CN	2019104692659		110380761	Yes	
4060	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	128454048		2774308	Yes	
4061	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	FI	20126147	126546	20126147	Yes	
4062	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	APP-Pending	FI	20166045		20166045	Yes	
4063	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	141120711		1198603	Yes	
4064	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201402627		2015/02524	Yes	
4065	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	3085/CHENP/2014		3085/CHENP/2014	Yes	
4066	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-539922	6061942	2015-502687	Yes	
4067	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-240783	6326122	2017-077013	Yes	
4068	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7012117	10-1713388	10-2014-0073564	Yes	
4069	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7005298	10-1814349	10-2017-0024156	Yes	
4070	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7036863	10-1856922	10-2018-0004282	Yes	
4071	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/005392	337344	MX/a/2014/005392	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4072	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/001743	355343		Yes	
4073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4074	METHOD APPARATUS AND MACHINE READABLE MEDIUM FOR SELECTING AND TRANSMITTING ACKNOWLEDGEMENT TIMING INFORMATION IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	NL	2009759	2009759	2009759	Yes	
4075	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014117684	2586316	2014117684	Yes	
4076	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	RU	2016117322	2632902		Yes	
4077	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	SE	1350889-0	539574	1350889	Yes	
4078	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	13/997971	9220085	US-2014-0010128-A1	Yes	
4079	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/247189	9247527	US-2014-0219143-A1	Yes	
4080	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/970035	9614709	US-2016-0183210-A1	Yes	
4081	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/385361	9762375	US-2017-0104575-A1	Yes	
4082	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/646985	9893872	US-2017-0310454-A1	Yes	
4083	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/851345	10079669	US-2018-0167190-A1	Yes	
4084	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	IN	3079/CHENP/2014		3079/CHENP/2014	Yes	
4085	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/976370	9398559	US-2013-0336269-A1	Yes	
4086	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/538070	9008018	US-2013-0114524-A1		
4087	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/642235	9432093	US-2015-0180555-A1		
4088	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	AU	2012333237	########	2012333237	Yes	
4089	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112014010597-9		112014010597-9	Yes	
4090	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCD	APP-Pending	BR	122016013829-1		122016013829-1	Yes	
4091	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CA	2850124	2850124	2850124	Yes	
4092	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCD	PAT-Active	CA	2932387	2932387	2932387	Yes	
4093	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201280054285 6	ZL2012800 542856	103907367	Yes	
4094	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	ETD	APP-Pending	EP	161763966		3094118	Yes	
4095	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	171046979		1231290	Yes	
4096	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201402625		2015/02639	Yes	
4097	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	3190/CHENP/2014		3190/CHENP/2014	Yes	
4098	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-539919	5908597	2015-501615	Yes	
4099	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-058055	6279642	2016-178640	Yes	
4100	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	DIV	APP-Pending	JP	2018-005414		2018-110402	Yes	
4101	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7009532	10-1891937	10-2017-0042813	Yes	
4102	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/005393	337271	MX/a/2014/005393	Yes	
4103	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4104	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4105	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014117727	2569499	2014117727	Yes	
4106	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/976374	10158519	US-2013-0279368-A1	Yes	
4107	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	2783/CHENP/2014		2783/CHENP/2014	Yes	
4108	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7014607	10-1623287	10-2014-0097262	Yes	
4109	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/997233	9825797	US-2015-0038179-A1	Yes	
4110	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	128464492	2774451	2774451	Yes	
4111	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	128464492	2774451	2774451	Yes	
4112	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112014010786-6		112014010786-6	Yes	
4113	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	128464492	2774451	2774451	Yes	
4114	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201280054246 6	ZL2012800 542466	103907394	Yes	
4115	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	128464492	2774451	2774451	Yes	
4116	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	128464492	2774451	2774451	Yes	
4117	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	128464492	2774451	2774451	Yes	
4118	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	ETD	APP-Pending	EP	171867203		3319347	Yes	
4119	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	128464492	2774451	2774451	Yes	
4120	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	128464492	2774451	2774451	Yes	
4121	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	128464492	2774451	2774451	Yes	
4122	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	128464492	2774451	2774451	Yes	
4123	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	141101135		1196739	Yes	
4124	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	128464492	2774451	2774451	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4125	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	3195/CHENP/2014		3195/CHENP/2014	Yes	
4126	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-539923	6046734	2015-501616	Yes	
4127	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-223861	6371361	2017-085581	Yes	
4128	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	DIV	PAT-Active	JP	2018-132052	6542439	2018-196127	Yes	
4129	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7012171	10-1645109	10-2014-0083007	Yes	
4130	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	128464482	2774451	2774451	Yes	
4131	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014117667	2585276	2014117667	Yes	
4132	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	128464482	2774451	2774451	Yes	
4133	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/996370	9755882	US-2013-0279372-A1	Yes	
4134	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	15/659462		US-2017-0338995-A1	Yes	
4135	TECHNIQUES FOR TRAFFIC DELIVERY TO A GROUP OF DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	13/976986	9232498	US-2013-0272186-A1		
4136	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	1083/CHENP/2014		1083/CHENP/2014	Yes	
4137	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7004934	10-1631198	10-2014-0042913	Yes	
4138	HYBRID CODEBOOK DESIGN FOR WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/539280	9088872	US-2013-0156075-A1		
4139	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	AU	2016202678	########	2016202678	Yes	
4140	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	APP-Pending	AU	2018203394		2018203394	Yes	
4141	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	APP-Pending	CN	201810597422X		108990858	Yes	
4142	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PPD	APP-Pending	HK	15031718		1259147	Yes	
4143	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	EP	128741147	2837105	2837105	Yes	
4144	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4145	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	DE	128741147	########	2837105		
4146	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	FR	128741147	2837105	2837105		
4147	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	GB	128741147	2837105	2837105		
4148	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	NL	128741147	2837105	2837105		
4149	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	IN	6813/CHENP/2014		6813/CHENP/2014	Yes	
4150	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-505689	5969112	2015-513288	Yes	
4151	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-134287	6335676	2016-189623	Yes	
4152	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-088478		2018-142990	Yes	
4153	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7026983	10-1661408	10-2014-0129293	Yes	
4154	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7026134	10-1763094	10-2016-0113748	Yes	
4155	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7018433	10-1815157	10-2017-0082695	Yes	
4156	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7036967	10-1871138	10-2018-0064284	Yes	
4157	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2014702726			Yes	
4158	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	US	13/997736	9564262	US-2014-0213261-A1	Yes	
4159	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	CNT	PAT-Active	US	15/413526	9955338	US-2017-0134926-A1	Yes	
4160	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	CNT	PAT-Active	US	15/944668	10390208	US-2018-0227741-A1	Yes	
4161	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	CNT	APP-Pending	US	16/406677		US 2020-0137548 A1	Yes	
4162	TECHNIQUES FOR COORDINATED UPLINK POWER CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	13/532841	9301219	US-2013-0188501-A1		
4163	TECHNIQUES FOR COORDINATED UPLINK POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	15/083016	9988999	US-2017-0055228-A1		
4164	TECHNIQUES FOR COORDINATED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	CN	201380065404.5	ZL201380065404.5	104937679		
4165	METHOD FOR CONTROLLING RECEIVING DIVERSITY OF A RECEIVER AND A MOBILE STATION	[redacted]	[redacted]	PCT	PAT-Active	US	13/976784	9077418	US-2014-0016685-A1		
4166	SAMPLING RECEIVER WITH INHERENT MIXER FUNCTIONALITY	[redacted]	[redacted]	NP	PAT-Active	US	13/483358	8848847	US-2013-0258101-A1		
4167	SAMPLING RECEIVER WITH INHERENT MIXER FUNCTIONALITY IN DISCRETE TIME DOMAIN	[redacted]	[redacted]	NP	PAT-Active	CN	201310163512.5	ZL201310163512.5	103368526		
4168	ABTASTEMPFANGER MIT INHARENTER MISCHERFUNKTIONALITAT IM DISKRETEN ZEITBEREICH	[redacted]	[redacted]	NP	PAT-Active	DE	102013103452.7	########	102013103452		
4169	DIGITAL EVENT GENERATOR COMPARATOR SWITCHED MODE ENERGY CONVERTER AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	13/475213	9190906	US-2013-0307509-A1		
4170	DIGITAL EVENT GENERATOR COMPARATOR SWITCHED MODE ENERGY CONVERTER AND METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	201310181350.8	ZL201310181350.8	103560789		
4171	DIGITALER EREIGNISGENERATOR KOMPARATOR SCHALTENERGIEWANDLER UND VERFAHREN	[redacted]	[redacted]	NP	PAT-Active	DE	102013208894.3	########	102013208894		
4172	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
4173	COMMUNICATION DEVICES AND METHODS FOR SELECTING A RADIO ACCESS MODE	[redacted]	[redacted]	NP	PAT-Active	US	13/863854	8855709	US-2013-0295986-A1		
4174	COMMUNICATION DEVICES AND METHODS FOR SELECTING A RADIO ACCESS MODE	[redacted]	[redacted]	NP	PAT-Active	CN	201310251488.5	ZL201310251488	103384409		
4175	COMMUNICATION DEVICES AND METHODS FOR SELECTING A RADIO ACCESS MODE	[redacted]	[redacted]	DIV	PAT-Active	CN	201510099460.7	ZL201510099460.7	105376840		
4176	COMMUNICATION DEVICES AND METHODS FOR SELECTING A RADIO ACCESS MODE	[redacted]	[redacted]	NP	PAT-Active	DE	102013104532.4	########	102013104532		
4177	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/455205	8929934	US-2013-0288727-A1		
4178	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	201610410307.1		107018529		
4179	KOMMUNIKATIONSVORRICHTUNGEN UND VERFAHREN ZUM BETREIBEN EINER KOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	PAT-Active	DE	102013103938.1	########	102013103938		
4180	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
4181	VORRICHTUNG UND VERFAHREN ZUM BESTIMMEN EINER VORCODIERMATRIX	[redacted]	[redacted]	NP	PAT-Active	DE	102013208486.2	########	102013208486		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4182	CONTROLLING A POWER LEVEL OF AN UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800063644	ZL2013800063644	104067673		
4183	CENTRALIZED CONTROL OF INTRA-CELL DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800100107	ZL2013800100107	104170521		
4184	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800063574	ZL2013800063574	104067549		
4185	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	137408860	2807779	2807779		
4186	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	137408860	2807779	2807779		
4187	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	137408860	2807779	2807779		
4188	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	137408860	2807779	2807779		
4189	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	137408860	2807779	2807779		
4190	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	137408860	2807779	2807779		
4191	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	137408860	2807779	2807779		
4192	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	137408860	2807779	2807779		
4193	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	137408860	2807779	2807779		
4194	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	137408860	2807779	2807779		
4195	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	137408860	2807779	2807779		
4196	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	137408860	2807779	2807779		
4197	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	137408860	2807779	2807779		
4198	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	137408860	2807779	2807779		
4199	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	NP	PAT-Active	US	13/608369	9544823	US-2013-0188516-A1	Yes	
4200	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	CNT	PAT-Active	US	15/400106	9877317	US-2017-0223671-A1	Yes	
4201	METHOD AND DEVICE FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800110128	ZL2013800110128	104137441	Yes	
4202	METHOD AND DEVICE FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCD	APP-Pending	CN	2017103541046		107257274	Yes	
4203	METHOD AND DEVICE FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	FPD	APP-Pending	HK	181048994		1245536	Yes	
4204	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	EP	137412193	2807765	2807765	Yes	
4205	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	AT	137412193	2807765	2807765	Yes	
4206	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	BE	137412193	2807765	2807765	Yes	
4207	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	CH	137412193	2807765	2807765	Yes	
4208	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	DE	137412193	########	2807765	Yes	
4209	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	EE	137412193	2807765	2807765	Yes	
4210	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	ES	137412193	2807765	2807765	Yes	
4211	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	FR	137412193	2807765	2807765	Yes	
4212	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	GB	137412193	2807765	2807765	Yes	
4213	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	GR	137412193	2807765	2807765	Yes	
4214	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	HU	137412193	2807765	2807765	Yes	
4215	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	IE	137412193	2807765	2807765	Yes	
4216	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	NL	137412193	2807765	2807765	Yes	
4217	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	EPT	PAT-Active	SK	137412193	2807765	2807765	Yes	
4218	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-553456	5882503	2015-504293	Yes	
4219	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-018783	6250716	2016-106484	Yes	
4220	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7023597	10-1591494	10-2014-0115369	Yes	
4221	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7002533	10-1751191	10-2016-0018837	Yes	
4222	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7013125	10-1861648	10-2017-0056714	Yes	
4223	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800678536	ZL2012800678536	104054386		
4224	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800476977	ZL2012800476977	103828254	Yes	
4225	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	128366721	########	2761770	Yes	
4226	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	128366721	2761770	2761770	Yes	
4227	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	128216561	########	2742741		
4228	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	128216561	2742741	2742741		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4229	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	US	13/991544	9264989	US-2014-0187234-A1		
4230	METHOD FOR OPERATING A TRANSCEIVER CIRCUIT AND TRANSCEIVER CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/597480	9071399	US-2014-0064067-A1		
4231	GUARD BAND UTILIZATION IN A COMMUNICATION NETWORK	[redacted]	[redacted]	EPA	APP-Pending	EP	131813891		2704348		
4232	METHODS AND APPARATUSES FOR RATE ADAPTATION OF QUALITY OF SERVICE BASED APPLICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/568165	8914537	US-2014-0043975-A1		
4233	METHODS AND APPARATUSES FOR RATE ADAPTATION OF QUALITY OF SERVICE BASED APPLICATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013103412598	ZL2013103 412598	103763743		
4234	VERFAHREN UND VORRICHTUNGEN ZUR RATENANPASSUNG BEI EINER AUF DIENSTGUTE BASIERENDEN ANWENDUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131082629		102013108262		
4235	MOBILE COMMUNICATION APPARATUSES METHOD FOR PERFORMING SIGNAL RECEPTION QUALITY MEASUREMENTS AND METHOD FOR ASCERTAINING A MOVEMENT BY A MOBILE COMMUNICATION APPARATUS	[redacted]	[redacted]	NP	PAT-Active	US	13/910159	9473951	US-2013-0337848-A1		
4236	MOBILE COMMUNICATION APPARATUSES METHOD FOR PERFORMING SIGNAL RECEPTION QUALITY MEASUREMENTS AND METHOD FOR ASCERTAINING A MOVEMENT BY A MOBILE COMMUNICATION APPARATUS	[redacted]	[redacted]	NP	PAT-Active	CN	2013103106997	ZL2013103 106997	103491588		
4237	CIRCUIT AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800633357	ZL2012800 633357	103999423		
4238	CIRCUIT AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	CN	2016101986394	ZL2016101 986394	105847206		
4239	SCHALTUNG UND VERFAHREN	[redacted]	[redacted]	NP	APP-Pending	DE	1020122123970		102012212397		
4240	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
4241	CIRCUIT AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	US	13/976649	9041576	US-2014-0002287-A1		
4242	CIRCUIT AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/720155	9692443	US-2016-0380645-A1		
4243	AGILE AND ADAPTIVE TRANSMITTER-RECEIVER ISOLATION	[redacted]	[redacted]	NP	PAT-Active	US	13/423613	8874047	US-2013-0244593-A1		
4244	SYSTEM APPARATUS AND METHOD FOR AGILE AND ADAPTIVE TRANSMITTER-RECEIVER ISOLATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013101858091	ZL2013101 858091	103326738		
4245	AGILE UND ADAPTIVE SENDER-EMPFÄNGER-ISOLATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020131027997		102013102799		
4246	AGILE AND ADAPTIVE WIDEBAND MIMO ANTENNA ISOLATION	[redacted]	[redacted]	CIP	PAT-Active	US	13/598683	8805300	US-2013-0244594-A1		
4247	CARE-OF-ADDRESS HANDOVER	[redacted]	[redacted]	NP	PAT-Active	US	13/758240	9271193	US-2013-0223404-A1		
4248	CARE-OF-ADDRESS HANDOVER	[redacted]	[redacted]	NP	APP-Closed	CN	2013100567154		103297558		
4249	CARE-OF-ADDRESS HANDOVER	[redacted]	[redacted]	DIV	APP-Pending	CN	2018107832543		108811013		
4250	CARE-OF-ADRESSE-HANDOVER	[redacted]	[redacted]	NP	APP-Pending	DE	1020131018149		102013101814		
4251	ENHANCED POWER MANAGEMENT IN COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/758213	9294996	US-2013-0225215-A1		
4252	ENHANCED POWER MANAGEMENT IN COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Closed	CN	2013100566113		103298080		
4253	VERBESSERTES LEISTUNGSMANAGEMENT IN EINER KOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131018394		102013101839		
4254	COOPERATIVE RADIO ACCESS NETWORK WITH CENTRALIZED BASE STATION BASEBAND UNIT (BBU) PROCESSING POOL	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800704390	ZL2012800 704390	105359574		
4255	COOPERATIVE RADIO ACCESS NETWORK WITH CENTRALIZED BASE STATION BASEBAND UNIT (BBU) PROCESSING POOL	[redacted]	[redacted]	FPR	APP-Pending	HK	161099949		1221853		
4256	COOPERATIVE RADIO ACCESS NETWORK WITH CENTRALIZED BASE STATION BASEBAND UNIT (BBU) PROCESSING POOL	[redacted]	[redacted]	PCT	PAT-Active	US	13/993255	9301198	US-2014-0269322-A1		
4257	METHOD FOR PROVIDING A COMMUNICATION SESSION AND DEVICE	[redacted]	[redacted]	CNT	APP-Pending	US	15/970941		US-2018-0255141-A1		
4258	METHOD FOR PROVIDING A COMMUNICATION SESSION AND DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013100582099	ZL2013100 582099	103297415		
4259	METHOD FOR PROVIDING A COMMUNICATION SESSION AND DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2018103103879		108418836		
4260	VERFAHREN ZUM BEREITSTELLEN EINER KOMMUNIKATIONSSITZUNG UND VORRICHTUNG	[redacted]	[redacted]	NP	PAT-Active	DE	1020131018173	########	102013101817		
4261	SMART SERVICE TRANSFER ENRICH	[redacted]	[redacted]	NP	APP-Pending	IN	187/KOL/2012		187/KOL/2012		
4262	REMOTE MANAGEMENT AND CONTROL OF VEHICULAR FUNCTIONS VIA MULTIPLE NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/539352	9031712	US-2014-0005859-A1		
4263	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	NP	PAT-Active	US	13/533006	9973884	US-2013-0238857-A1		
4264	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-561074	6104951	2015-512227		
4265	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7025147	10-1634630	10-2014-0135187		
4266	DEVICES FOR SYNCHRONIZING A COMMUNICATION END DEVICE WITH A BASE STATION METHODS FOR SYNCHRONIZING A COMMUNICATION END DEVICE WITH A BASE STATION DEVICES FOR GENERATING A SECONDARY SYNCHRONIZATION SIGNAL AND METHODS FOR GENERATING A SECONDARY SYNCHRONIZATION SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201310211501X	ZL2013102 11501X	103458497		
4267	DISTRIBUTION OF AN ELECTRONIC REFERENCE CLOCK SIGNAL THAT INCLUDES DELAY AND VALIDITY INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/632230	9369225	US-2014-0094218-A1		
4268	CLOCK DISTRIBUTION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	CN	2013105118984	ZL2013105 118984	103716107		
4269	SYSTEME UND VERFAHREN FUR EINE VERTEILUNG VON TAKTGEBERSIGNALEN	[redacted]	[redacted]	NP	APP-Pending	DE	1020131107818		102013110781		
4270	CIRCUIT FOR SIGNAL PROCESSING AND METHOD PERFORMED BY SUCH CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/597404	8848775	US-2014-0064335-A1		
4271	CIRCUIT FOR SIGNAL PROCESSING AND METHOD PERFORMED BY SUCH CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	CN	2013103807272	ZL2013103 807272	103685100		
4272	Receiver Receiver Circuits and Methods for Providing an Interference-Reduced Signal	[redacted]	[redacted]	NP	PAT-Active	US	13/707818	8693971			
4273	INTERFERENCE AND NOISE ESTIMATION OF A COMMUNICATIONS CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	13/596305	9294949	US-2014-0064106-A1		
4274	A METHOD OF PROCESSING SIGNALS AND A SIGNAL PROCESSOR	[redacted]	[redacted]	NP	PAT-Active	CN	2013102351652	ZL2013102 351652	103516657		
4275	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/531848	9144085	US-2013-0083715-A1	Yes	
4276	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	AU	2012316021	########	2012316021	Yes	
4277	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	AU	2014227523	########	2014227523	Yes	
4278	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014007424-0		112014007424-0	Yes	
4279	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	BR	122014028496-9		122014028496-9	Yes	
4280	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/489327	9894608	US-2015-0036581-A1	Yes	
4281	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	15/861538		US-2018-0132179-A1	Yes	
4282	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CA	2850169	2850169	2850169	Yes	
4283	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	CA	2967465	2967465	2967465	Yes	
4284	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800476943	ZL2012800 476943	103828266	Yes	
4285	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	CN	201510037537X		104602198	Yes	
4286	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	2017104039451		107182038	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4287	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	181035908		1244385	Yes	
4288	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	128353604		2761785	Yes	
4289	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	EP	141869198	2852190	2852190	Yes	
4290	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	AT	141869198	2852190	2852190	Yes	
4291	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	BE	141869198	2852190	2852190	Yes	
4292	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	CH	141869198	2852190	2852190	Yes	
4293	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	DE	141869198	2852190	2852190	Yes	
4294	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	EE	141869198	2852190	2852190	Yes	
4295	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	ES	141869198	2852190	2852190	Yes	
4296	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	FR	141869198	2852190	2852190	Yes	
4297	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	GB	141869198	2852190	2852190	Yes	
4298	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	GR	141869198	2852190	2852190	Yes	
4299	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	HU	141869198	2852190	2852190	Yes	
4300	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	IE	141869198	2852190	2852190	Yes	
4301	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	NL	141869198	2852190	2852190	Yes	
4302	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	ETD	PAT-Active	SK	141869198	2852190	2852190	Yes	
4303	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTICARRIER NETWORKS	[redacted]	[redacted]	FPR	PAT-Active	HK	141086205	1195405	1195405	Yes	
4304	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	151075458		1207234	Yes	
4305	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201401870	IDP000061049	2016/00432	Yes	
4306	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	ID	P00201501857		2017/02661	Yes	
4307	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	2309/CHENP/2014		2309/CHENP/2014	Yes	
4308	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	IN	6893/CHENP/2014		6893/CHENP/2014	Yes	
4309	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-533711	5777039	2014-528667	Yes	
4310	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	JP	2014-209151	6307724	2015-065660	Yes	
4311	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-129798	6168502	2015-216669	Yes	
4312	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7008409	10-1569640	10-2014-0054402	Yes	
4313	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/003737	333994	MX/a/2014/003737	Yes	
4314	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/A/2015/014237	356973		Yes	
4315	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4316	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4317	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014112051	2573580	2014112051	Yes	
4318	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	RU	2015152416	2631258	2015152416	Yes	
4319	PHYSICAL-LAYER CELL IDENTITY (PCI) PARTITION FOR HETEROGENEOUS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/538775	9456415	US-2013-0083744-A1		
4320	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014010783-1		112014010783-1	Yes	
4321	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN A COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800594418	ZL2012800594418	104081696	Yes	
4322	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	CN	2015107512414		105337644	Yes	
4323	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	DIV	APP-Pending	CN	201710477754X		107257252	Yes	
4324	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	171128836		1239964	Yes	
4325	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	128463197		2774298	Yes	
4326	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (COMP) SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	161591870		3046301	Yes	
4327	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	161043189		1216465	Yes	
4328	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	2784/CHENP/2014		2784/CHENP/2014	Yes	
4329	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-539927	5865505	2014-533036	Yes	
4330	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (COMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-254691	6100878	2016-105603	Yes	
4331	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (COMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-032731	6424398	2017-135718	Yes	
4332	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7013776	10-1620248	10-2014-0095065	Yes	
4333	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (COMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7003308	10-1947246	10-2016-0018882	Yes	
4334	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014122161	2565245		Yes	
4335	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	RU	2015138682	2612411	2015138682	Yes	
4336	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (COMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	RU	2017105634	2656234		Yes	
4337	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	13/997232	9351277	US-2014-0086221-A1	Yes	
4338	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	15/140389	10044546	US-2016-0254938-A1	Yes	
4339	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/035468		US-2018-0343157-A1	Yes	
4340	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/537967	9642114	US-2013-0142113-A1	Yes	
4341	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800594403	ZL2012800594403	104067675	Yes	
4342	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	128460912	########	2774427	Yes	
4343	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	128460912	2774427	2774427	Yes	
4344	UPLINK SYNCHRONIZATION WITH MULTIPLE TIMING ADVANCES IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800593311	ZL2012800593311	103959695		
4345	UPLINK SYNCHRONIZATION WITH MULTIPLE TIMING ADVANCES IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-540121	5861211	2015-503263		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4346	SIMULTANEOUS TRANSMISSION OF DIFFERENT TYPES OF FEEDBACK INFORMATION IN A WIRELESS ENVIRONMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201280059208X	ZL201280059208X	103959699		
4347	NARROW BANDWIDTH DEVICE IN A BROADBAND NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/538762	9596069	US-2013-0114587-A1		
4348	NARROW BANDWIDTH DEVICE IN A BROADBAND NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800593171	ZL201280059317 1	103959694		
4349	USER EQUIPMENT (UE)-SPECIFIC ASSIGNMENT OF DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCES TO SUPPORT UPLINK (UL) COORDINATED MULTIPOINT (CoMP)	[redacted]	[redacted]	NP	PAT-Active	US	13/537979	8811144	US-2013-0114523-A1		
4350	USER EQUIPMENT (UE)-SPECIFIC ASSIGNMENT OF DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCES TO SUPPORT UPLINK (UL) COORDINATED MULTIPOINT (CoMP)	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800593449	ZL201280059344 9	103947145		
4351	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800322752	ZL201280032275 2	103797888	Yes	
4352	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	PCD	APP-Pending	CN	2017109348964		108307469	Yes	
4353	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	FPD	APP-Pending	HK	181110210		1251767	Yes	
4354	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	EP	127770584	2702826	2702826	Yes	
4355	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	AT	127770584	2702826	2702826	Yes	
4356	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	BE	127770584	2702826	2702826	Yes	
4357	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	CH	127770584	2702826	2702826	Yes	
4358	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	DE	127770584	2702826	2702826	Yes	
4359	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	EE	127770584	2702826	2702826	Yes	
4360	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	ES	127770584	2702826	2702826	Yes	
4361	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	FR	127770584	2702826	2702826	Yes	
4362	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	GB	127770584	2702826	2702826	Yes	
4363	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	GR	127770584	2702826	2702826	Yes	
4364	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	IE	127770584	2702826	2702826	Yes	
4365	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	NL	127770584	2702826	2702826	Yes	
4366	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	PAT-Active	SK	127770584	2702826	2702826	Yes	
4367	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	PCT	PAT-Active	US	13/992029	9526027	US-2014-0101726-A1	Yes	
4368	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	CNT	PAT-Active	US	15/350388	9949165	US-2017-0289587-A1	Yes	
4369	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	CNT	APP-Pending	US	15/916044		US-2018-0262943-A1	Yes	388
4370	EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800101491	ZL201380010149 1	104170271		
4371	EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-554797	5940681	2015-511436		
4372	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800064026	ZL201380006402 6	104067684		
4373	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/526767	8942122	US-2013-0188500-A1		
4374	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800063606	ZL201380006360 6	104067688		
4375	TECHNIQUES FOR MITIGATING INTERFERENCE ASSOCIATED WITH DOWNLINK TRANSMISSIONS FROM A BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	13/531717	8862176	US-2013-0115999-A1		
4376	TIME-VARIANT ANTENNA ENABLED BY SWITCHED CAPACITOR ARRAY ON SILICON	[redacted]	[redacted]	NP	PAT-Active	US	13/534377	8824982	US-2014-0004804-A1		
4377	TIME-VARIANT ANTENNA ENABLED BY SWITCH CAPACITOR ARRAY ON SILICON	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800277785	ZL201380027778 5	104321929		
4378	TIME-VARIANT ANTENNA ENABLED BY SWITCH CAPACITOR ARRAY ON SILICON	[redacted]	[redacted]	PCT	APP-Pending	DE	1120130032287		112013003228		
4379	SOUNDING REFERENCE SIGNAL ENHANCEMENT TO SUPPORT UPLINK COORDINATED MULTIPOINT	[redacted]	[redacted]	NP	PAT-Active	US	13/595640	9635664	US-2013-0195028-A1		
4380	SOUNDING REFERENCE SIGNAL ENHANCEMENT TO SUPPORT UPLINK COORDINATED MULTIPOINT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800096474	ZL201380009647 4	104145524		
4381	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	NP	PAT-Active	US	13/613902	9213605	US-2013-0246846-A1	Yes	
4382	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/869451	9888045	US-2016-0036866-A1	Yes	
4383	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	CNT	APP-Pending	US	15/888593		US-2018-0227334-A1	Yes	
4384	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800063818	ZL201380006381 8	104067643	Yes	
4385	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	EP	137415998	2807840	2807840	Yes	
4386	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	AT	137415998	2807840	2807840	Yes	
4387	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	BE	137415998	2807840	2807840	Yes	
4388	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	CH	137415998	2807840	2807840	Yes	
4389	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	ETD	APP-Pending	EP	181805003		3399668	Yes	
4390	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	DE	137415998	2807840	2807840	Yes	
4391	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	EE	137415998	2807840	2807840	Yes	
4392	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	ES	137415998	2807840	2807840	Yes	
4393	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	FR	137415998	2807840	2807840	Yes	
4394	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	GB	137415998	2807840	2807840	Yes	
4395	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	GR	137415998	2807840	2807840	Yes	
4396	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	HU	137415998	2807840	2807840	Yes	
4397	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	IE	137415998	2807840	2807840	Yes	
4398	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	NL	137415998	2807840	2807840	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4399	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	EPT	PAT-Active	SK	137415998	2807840	2807840	Yes	
4400	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-553518	5886448	2015-511429	Yes	
4401	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-024199	6113317	2016-129374	Yes	
4402	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7023285	10-1705866	10-2014-0125392	Yes	
4403	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7003314	10-1809124	10-2017-0017012	Yes	
4404	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCD	PAT-Active	AU	2017210634	########	2017210634	Yes	
4405	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	APP-Pending	BR	112014018503-4		112014018503-4	Yes	
4406	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	CNT	PAT-Active	US	14/605742	9565672	US-2015-0134787-A1	Yes	
4407	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	APP-Pending	CA	2863618		2863618	Yes	
4408	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800066657	ZL2013800 066657	104081798	Yes	
4409	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	EP	137413498	2807838	2807838	Yes	
4410	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	AT	137413498	2807838	2807838	Yes	
4411	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	BE	137413498	2807838	2807838	Yes	
4412	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	CH	137413498	2807838	2807838	Yes	
4413	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	DE	137413498	########	2807838	Yes	
4414	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	EE	137413498	2807838	2807838	Yes	
4415	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	ES	137413498	2807838	2807838	Yes	
4416	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	FR	137413498	2807838	2807838	Yes	
4417	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	GB	137413498	2807838	2807838	Yes	
4418	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	GR	137413498	2807838	2807838	Yes	
4419	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	HU	137413498	2807838	2807838	Yes	
4420	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	IE	137413498	2807838	2807838	Yes	
4421	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	NL	137413498	2807838	2807838	Yes	
4422	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	EPT	PAT-Active	SK	137413498	2807838	2807838	Yes	
4423	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	FPR	PAT-Active	HK	151031950	1203016	1203016	Yes	
4424	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201404500	IDP000052 930	2015/03907	Yes	
4425	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	APP-Pending	IN	4771/CHENP/2014		4771/CHENP/2014	Yes	
4426	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-554877	6017589	2015-513811	Yes	
4427	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7021067	10-1636842	10-2014-0113995	Yes	
4428	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/009025	345301	MX/a/2014/009025	Yes	
4429	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4430	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4431	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	PAT-Active	RU	2014131733	2585261	2014131733	Yes	
4432	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCD	PAT-Active	RU	2016115177	2654130		Yes	
4433	PACKET STREAMING SERVICE CAPABILITY EXCHANGE FOR ENHANCED PERIPHERAL DEVICE SUPPORT	[redacted]	[redacted]	NP	PAT-Active	US	13/598301	8965453	US-2013-0190048-A1	Yes	
4434	PACKET STREAMING SERVICE CAPABILITY EXCHANGE FOR ENHANCED PERIPHERAL DEVICE SUPPORT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800064011	ZL2013800 064011	104067593	Yes	
4435	IDENTIFIERS FOR MTC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/588090	8942627	US-2013-0196704-A1	Yes	
4436	IDENTIFIERS FOR MTC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800066820	ZL2013800 066820	104067537	Yes	
4437	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	137413415	2807766	2807766	Yes	
4438	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	137413415	2807766	2807766	Yes	
4439	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	137413415	2807766	2807766	Yes	
4440	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	137413415	2807766	2807766	Yes	
4441	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	181936535		3432612	Yes	
4442	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	137413415	2807766	2807766	Yes	
4443	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	137413415	2807766	2807766	Yes	
4444	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	137413415	2807766	2807766	Yes	
4445	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	137413415	2807766	2807766	Yes	
4446	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	137413415	2807766	2807766	Yes	
4447	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	137413415	2807766	2807766	Yes	
4448	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	137413415	2807766	2807766	Yes	
4449	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	137413415	2807766	2807766	Yes	
4450	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	137413415	2807766	2807766	Yes	
4451	IDENTIFIERS FOR MTIC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	137413415	2807766	2807766	Yes	
4452	COORDINATED MULTIPOINT CONFIGURATION BASED ON CHANNEL STATE INFORMATION REFERENCE SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	13/534313	8843100	US-2013-0196699-A1		
4453	COORDINATED MULTIPOINT CONFIGURATION BASED ON CHANNEL STATE INFORMATION REFERENCE SIGNALS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800066572	ZL2013800 066572	104081684		
4454	INTERFERENCE MANAGEMENT FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	US	13/612318	9197683	US-2013-0194982-A1	Yes	
4455	INTERFERENCE MANAGEMENT FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/926418	9775149	US-2016-0157216-A1	Yes	
4456	INTERFERENCE MANAGEMENT FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800164679	ZL2013800 164679	104205977	Yes	
4457	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800541834	ZL2012800 541834	104012011		
4458	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	13/996150	9385791	US-2013-0343317-A1		
4459	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	NP	PAT-Active	US	13/536722	8917618	US-2013-0195025-A1	Yes	
4460	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	PAT-Active	AU	2013212088	########	2013212088	Yes	
4461	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	PAT-Active	AU	2015230860	########	2015230860	Yes	
4462	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	PAT-Active	AU	2016219696	########	2016219696	Yes	
4463	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	APP-Pending	BR	112014018569-7		112014018569-7	Yes	
4464	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	CNT	PAT-Active	US	14/543759	9154279	US-2015-0071235-A1	Yes	
4465	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	CNT	PAT-Active	US	14/812927	9591638	US-2015-0341149-A1	Yes	
4466	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	CNT	PAT-Active	US	15/408223	10097323	US-2017-0126375-A1	Yes	
4467	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	PAT-Active	CA	2861484	2861484	2861484	Yes	
4468	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	APP-Pending	CA	2986418		2986418	Yes	
4469	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800067518	ZL2013800 067518	104081681	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4470	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	EPT	APP-Pending	EP	137416152		2807754	Yes	
4471	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4472	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-554823	6069666	2015-512183	Yes	
4473	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2015-7025221	10-1960135	10-2015-0109498	Yes	
4474	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7037014	10-1826297	10-2017-0004037	Yes	
4475	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2018-7003133	10-1936556	10-2018-0014878	Yes	
4476	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/526302	9055477	US-2013-0201823-A1	Yes	
4477	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0080	1022143		Yes	
4478	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4479	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/917324	9125103	US-2013-0272124-A1	Yes	
4480	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	CN	201310088319X	ZL201310088319X	103249113	Yes	
4481	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	DIV	APP-Pending	CN	2016110357156		107104755	Yes	
4482	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	181026972		1243250	Yes	
4483	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	137471280		2813124	Yes	
4484	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	ES	P201330137	2440370	2440370	Yes	
4485	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	FI	20135109	126448	20135109	Yes	
4486	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	FR	1350996	2986933	2986933	Yes	
4487	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	131126226	1185211	1185211	Yes	
4488	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	5385/CHENP/2014		5385/CHENP/2014	Yes	
4489	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000167	1416452	MI2013A000167	Yes	
4490	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-555839	5986228	2015-505660	Yes	
4491	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-153300	6238486	2016-226014	Yes	
4492	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7016671	10-1762086	10-2016-0075868	Yes	
4493	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	NL	2010250	2010250	2010250	Yes	
4494	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	DIV	APP-Pending	SE	1650715-4		1650715	Yes	
4495	APPARATUS AND SYSTEM FOR HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK AND COMPUTER-READABLE STORAGE MEDIUM	[redacted]	[redacted]	NP	PAT-Active	TW	102104405	I523551	201404195	Yes	
4496	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800083351	ZL201380083351	104094566	Yes	
4497	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	201711114063X		107613481	Yes	
4498	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	181091464		1249696	Yes	
4499	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	151011204	1200990	1200990	Yes	
4500	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4501	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-555838	5876166	2015-509352	Yes	
4502	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7021783	10-1592805	10-2014-0116470	Yes	
4503	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	102104366	I635731	201347479	Yes	
4504	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/563508	9071999	US-2013-0201824-A1	Yes	
4505	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/754173	9736074	US-2015-0381497-A1	Yes	
4506	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4507	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-555819	5945775	2015-511452	Yes	
4508	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800691371	ZL201280069137 1	104115422		
4509	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/529895	9241327	US-2013-0188566-A1		
4510	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-554778	6045606	2015-506645		
4511	TIME AND FREQUENCY SYNCHRONIZATION FOR LTE-ADVANCED NEW CARRIER TYPE	[redacted]	[redacted]	NP	PAT-Active	US	13/537271	9356979	US-2013-0195070-A1		
4512	TIME AND FREQUENCY SYNCHRONIZATION FOR LTE-ADVANCED NEW CARRIER TYPE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800165262	ZL201380016 5262	104769865		
4513	METHOD AND APPARATUS FOR HOST-CONTROLLED PACKET DATA SUPPRESSION	[redacted]	[redacted]	NP	PAT-Active	US	13/465076	10075876	US-2013-0294238-A1		
4514	METHOD AND APPARATUS FOR HOST-CONTROLLED PACKET DATA SUPPRESSION	[redacted]	[redacted]	NP	PAT-Active	CN	2013102818547	ZL201310281 8547	103428098		
4515	VERFAHREN UND VORRICHTUNG FÜR HOST-GESTEUERTE PAKETDATENUNTERDRÜCKUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131047181		102013104718		
4516	CIRCUIT ARRANGEMENT AND METHOD FOR LOW POWER MODE MANAGEMENT WITH DELAYABLE REQUEST	[redacted]	[redacted]	NP	PAT-Active	US	13/602394	9021287	US-2014-0068303-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4517	CIRCUIT ARRANGEMENT AND METHOD FOR LOW POWER MODE MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	CN	2013105025602	ZL2013105025602	103684495		
4518	SCHALTUNGSANORDNUNG UND VERFAHREN ZUR STEUERUNG EINES NIEDERLEISTUNGSMODUS	[redacted]	[redacted]	NP	PAT-Active	DE	1020131096441	########	102013109644		
4519	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013103334226	ZL2013103334226	103582183		
4520	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2016108578574		106879081		
4521	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2017106801613		107465444		
4522	FUNKKOMMUNIKATIONSEINRICHTUNGEN UND VERFAHREN ZUM STEUERN EINER FUNKKOMMUNIKATIONSEINRICHTUNG	[redacted]	[redacted]	NP	PAT-Active	DE	1020131082793	########	102013108279		
4523	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	CIP	PAT-Active	US	13/564915	9319177	US-2013-0029720-A1		
4524	METHODS AND DEVICES FOR CONTROLLING RECEIVE CONFIGURATIONS IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/067260	10193591	US-2017-0005692-A1		
4525	DEVICE FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL AND METHOD FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	13/837986	9246722	US-2013-0251062-A1		
4526	DEVICE FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL AND MEHTOD FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2013100907029	ZL2013100907029	103546185		
4527	DEVICE FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL AND METHOD FOR PROVIDING A DIFFERENTIAL OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	DE	1020122044485	########			
4528	COMMUNICATION NETWORK DEVICES BASE STATION AND WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/472504	9078124	US-2013-0310096-A1		
4529	COMMUNICATION NETWORK DEVICES BASE STATION AND WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013101814765	ZL2013101814765	103428707		
4530	KOMMUNIKATIONSNETZWERKVORRICHTUNG BASISSTATION UND DRAHTLOSKOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131050328		102013105032		
4531	COMMUNICATION NETWORK DEVICE COMMUNICATION DEVICE METHOD FOR MANAGING COMMUNICATION RESOURCE ALLOCATION AND METHOD FOR COMMUNICATION RESOURCE ALLOCATION	[redacted]	[redacted]	NP	PAT-Active	US	13/484350	9071976	US-2013-0324174-A1		
4532	COMMUNICATION DEVICE METHOD FOR MANAGING RESOURCE ALLOCATION METHOD FOR RESOURCE ALLOCATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013102120107	ZL2013102120107	103458515		
4533	KOMMUNIKATIONSNETZWERKVORRICHTUNGKOMMUNIKATIONSVORRICHTUNGVERFAHREN ZUM VERWALTEN DER ALLOKATION VON KOMMUNIKATIONSRESSOURCEN UND VERFAHREN FUR DIE ALLOKATION VON KOMMUNIKATIONSRESSOURCEN	[redacted]	[redacted]	NP	PAT-Active	DE	1020131056067	########	102013105606		
4534	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/707668	9084123	US-2014-0162567-A1		
4535	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013106514610	ZL2013106514610	103874089		
4536	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	1020131126820		102013112682		
4537	SYSTEMS AND METHODS TO PROVIDE COMPENSATED FEEDBACK PHASE INFORMATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020140015521		102014001552		
4538	METHOD AND APPARATUS FOR ITERATIVELY CALCULATING A VALUE	[redacted]	[redacted]	NP	PAT-Active	US	13/709450	9354844	US-2014-0164461-A1		
4539	METHOD AND APPARATUS FOR ITERATIVELY CALCULATING A VALUE	[redacted]	[redacted]	NP	PAT-Active	CN	2013107570868	ZL2013107570868	103986480		
4540	METHOD AND APPARATUS FOR ITERATIVELY CALCULATING A VALUE	[redacted]	[redacted]	NP	PAT-Active	DE	1020130207304	########	102013020730		
4541	DIFFERENTIAL DELAY LINE RING OSCILLATOR AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/631176	8797079	US-2014-0091847-A1		
4542	DIFFERENTIAL DELAY LINE RING OSCILLATOR AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013104479754	ZL2013104479754	103716046		
4543	DIFFERENZIELLE VERZÖGERUNGSLEITUNG RINGOSZILLATOR UND MOBILKOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131096905		102013109690		
4544	ANTENNA SYSTEM METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/570327	8884835	US-2014-0043201-A1		
4545	ANTENNA SYSTEM METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2018111056780		109193153		
4546	ANTENNA SYSTEM METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	1020131081320		102013108132		
4547	Push-Pull Amplifier and Differential Push-Pull Amplifier	[redacted]	[redacted]	NP	PAT-Active	US	13/617396	8847685	US-2014-0077879-A1		
4548	A PUSH-PULL AMPLIFIER AND DIFFERENTIAL PUSH-PULL AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	CN	2013104170223	ZL2013104170223	103684289		
4549	GEGENTAKTVERSTARKER UNO GEGENTAKTDIFFERENZVERSTARKER	[redacted]	[redacted]	NP	APP-Pending	DE	1020131096891		102013109689		
4550	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/776804	9258771	US-2014-0242987-A1		
4551	DETERMINATION OF A NOISE AND INTERFERENCE COVARIANCE MEASURE	[redacted]	[redacted]	NP	PAT-Active	US	13/707738	9276729	US-2014-0160949-A1		
4552	DETERMINATION OF A NOISE AND INTERFERENCE COVARIANCE MEASURE	[redacted]	[redacted]	NP	PAT-Active	CN	2013106502952	ZL2013106502952	103874223		
4553	DETERMINATION OF A NOISE AND INTERFERENCE COVARIANCE MEASURE	[redacted]	[redacted]	NP	APP-Pending	DE	1020131134475		102013113447		
4554	METHOD AND DEVICE FOR CONTROLLING A TRANSMIT POWER IN A USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/658004	9338751	US-2014-0113675-A1		
4555	METHOD AND DEVICE FOR CONTROLLING A TRANSMIT POWER IN A USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	CN	2013106804539	ZL2013106804539	103781162		
4556	VERFAHREN UND EINRICHTUNG ZUM STEUERN EINER SENDELEISTUNG IN EINEM TEILNEHMERGERAT	[redacted]	[redacted]	NP	PAT-Active	DE	1020131115071	########	102013111507		
4557	DEVICE SYSTEM AND METHOD OF COMMUNICATING VIA A DUAL DIRECTIONAL ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	13/528997	9059502	US-2013-0344907-A1		
4558	DEVICE SYSTEM AND METHOD OF COMMUNICATING VIA A DUAL DIRECTIONAL ANTENNA	[redacted]	[redacted]	CNT	PAT-Active	US	14/718307	9225054	US-2015-0255852-A1		
4559	METHODS AND SYSTEMS TO MITIGATE IMPULSE INTERFERENCE	[redacted]	[redacted]	NP	PAT-Active	US	13/661817	8929471	US-2014-0119420-A1		
4560	METHODS AND SYSTEMS AND MITIGATE IMPULSE INTERFERENCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800045330	ZL2013800045330	103999422		
4561	METHODS AND SYSTEMS TO MITIGATE IMPULSE INTERFERENCE	[redacted]	[redacted]	PCT	APP-Pending	DE	1120130051478		112013005147		
4562	SYSTEMS AND METHODS FOR JOINTLY DETECTING CHANNEL INTERFERENCE ON A SYNCHRONIZED MOBILE COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	CN	2013105024949	ZL2013105024949	103780339		
4563	AUTOMATIC FREQUENCY CONTROL	[redacted]	[redacted]	PCT	PAT-Active	US	14/233352	9680485	US-2016-0142064-A1		
4564	SYSTEMS AND METHODS FOR PROCESSING ENCODED DATA STREAMS	[redacted]	[redacted]	NP	PAT-Active	US	13/488887	9432489	US-2013-0326080-A1		
4565	SYSTEMS AND METHODS FOR PROCESSING ENCODED DATA STREAMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800236658	ZL2013800236658	104272774		
4566	PLUG-AND-PLAY TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	14/629244	9444511	US-2015-0171915-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4567	TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	15/236050	9947994	US-2017-0040674-A1		
4568	TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	CNT	APP-Pending	US	15/912937		US-2018-0261908-A1		
4569	PLUG-AND-PLAY TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	201380041603X	ZL201380041603X	104521149		
4570	PLUG-AND-PLAY TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	PCD	APP-Pending	CN	2016110028892		107086881		
4571	BETRIEBSBERETTES ZEIT ABHANGTGES ANTENNENMODULFUR DRAHTLOSE KOMMUNIKA TIONSVORRICHTUNGEN	[redacted]	[redacted]	PCT	PAT-Active	DE	1120130043513	########	112013004351		
4572	PASSIVE RADIO LINK CONTROL ENTITY WITH UNIFIED INTERFACE	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800752676	ZL2012800752676	104685959		
4573	PASSIVE RADIO LINK CONTROL ENTITY WITH UNIFIED INTERFACE	[redacted]	[redacted]	PCT	PAT-Active	US	13/995708	9247452	US-2014-0362767-A1		
4574	METHOD AND APPARATUS FOR MODIFYING A COMPLEX-VALUED SIGNAL AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/763760	8923434	US-2014-0226756-A1		
4575	METHOD AND APPARATUS FOR MODIFYING A COMPLEX-VALUED SIGNAL AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	1020141013573		102014101357		
4576	SIGNAL DELAY ESTIMATOR WITH ABSOLUTE DELAY AMOUNT AND DIRECTION ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/727908	8781049	US-2014-0185723-A1		
4577	SIGNAL DELAY ESTIMATOR WITH ABSOLUTE DELAY AMOUNT AND DIRECTION ESTIMATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/312024	9106402	US-2014-0301514-A1		
4578	SIGNAL DELAY ESTIMATOR AND METHOD WITH ABSOLUTE DELAY AMOUNT AND DIRECTION ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013107367178	ZL2013107367178	103905128		
4579	SIGNAL DELAY ESTIMATOR WITH ABSOLUTE DELAY AMOUNT AND DIRECTION ESTIMATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020130216109		102013021610		
4580	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	13/528492	9007972	US-2013-0003577-A1	Yes	
4581	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCT	PAT-Active	AU	2012279365	########	2012279365	Yes	
4582	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCD	PAT-Active	AU	2015205829	########	2015205829	Yes	
4583	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCD	PAT-Active	AU	2016269450	########	2016269450	Yes	
4584	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	CNT	APP-Pending	US	14/231487		US-2014-0211679-A1	Yes	
4585	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCT	PAT-Active	CA	2850111	2850111	2850111	Yes	
4586	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	EPT	APP-Pending	EP	128077278		2740226	Yes	
4587	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	FPR	APP-Pending	HK	141123228		1198846	Yes	
4588	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201401871		2016/01553	Yes	
4589	NETWORK VETTING OF WIRELESS MOBILE DEVICE INITIATED DISCONNECT	[redacted]	[redacted]	NP	PAT-Active	US	13/592621	9210550	US-2013-0231120-A1	Yes	
4590	USER EQUIPMENT AND METHOD FOR APPLICATION AGNOSTIC DISCONTINUOUS RECEPTION (DRX) TRIGGERING	[redacted]	[redacted]	PCT	PAT-Active	US	13/993023	9949243	US-2014-0105087-A1		
4591	SUPPORT FOR ASYNCHRONOUS TIME DIVISION DUPLEXING IN ADJACENT CELLS OF A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800423537	ZL2012800423537	103765793		
4592	SUPPORT FOR ASYNCHRONOUS TIME DIVISION DUPLEXING IN ADJACENT CELLS OF A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/994744	9820250	US-2014-0003270-A1		
4593	MEASUREMENTS FOR THE INTERWORKING OF WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800592107	ZL2012800592107	103959850		
4594	SCHEDULING REQUESTS FOR WIRELESS COMMUNICATION DEVICES RUNNING BACKGROUND APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/568508	9439208	US-2013-0115990-A1		
4595	SCHEDULING REQUESTS FOR WIRELESS COMMUNICATION DEVICES RUNNING BACKGROUND APPLICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800541849	ZL2012800541849	104160771		
4596	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/610772	9241351	US-2013-0115993-A1		
4597	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800541853	ZL2012800541853	104205667		
4598	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	IN	3140/CHENP/2014		3140/CHENP/2014		
4599	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/587759	8817733	US-2014-0050103-A1		
4600	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800378396	ZL2013800378396	104471985		
4601	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138300157	2885944	2885944		
4602	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	138300157	2885944	2885944		
4603	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	138300157	2885944	2885944		
4604	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	138300157	2885944	2885944		
4605	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138300157	########	2885944		
4606	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	138300157	2885944	2885944		
4607	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	138300157	2885944	2885944		
4608	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	138300157	2885944	2885944		
4609	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	138300157	2885944	2885944		
4610	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	138300157	2885944	2885944		
4611	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	138300157	2885944	2885944		
4612	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	138300157	2885944	2885944		
4613	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138300157	2885944	2885944		
4614	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	138300157	2885944	2885944		
4615	EXTENDED ACCESS BARRING (EAB) SIGNALING FOR A CORE NETWORK (CN) AND NODE	[redacted]	[redacted]	NP	PAT-Active	US	13/591652	9949166	US-2013-0215742-A1		
4616	EXTENDED ACCESS BARRING (EAB) SIGNALING FOR A CORE NETWORK (CN) AND NODE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800063659	ZL2013800063659	104067536		
4617	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/563593	8902855	US-2013-0034082-A1	Yes	
4618	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/335338	9351209	US-2014-0328287-A1	Yes	
4619	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	128205572	2740300	2740300	Yes	
4620	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	AT	128205572	2740300	2740300	Yes	
4621	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	BE	128205572	2740300	2740300	Yes	
4622	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	CH	128205572	2740300	2740300	Yes	
4623	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	128205572	2740300	2740300	Yes	
4624	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EE	128205572	2740300	2740300	Yes	
4625	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	ES	128205572	2740300	2740300	Yes	
4626	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	128205572	2740300	2740300	Yes	
4627	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	128205572	2740300	2740300	Yes	
4628	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GR	128205572	2740300	2740300	Yes	
4629	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	HU	128205572	2740300	2740300	Yes	
4630	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	IE	128205572	2740300	2740300	Yes	
4631	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	128205572	2740300	2740300	Yes	
4632	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	SK	128205572	2740300	2740300	Yes	
4633	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	141080522		1194890	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4634	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/569443	8818378	US-2013-0196664-A1		
4635	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380010376.4	ZL201380010376.4	104137611		
4636	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/627288	10085207	US-2013-0258923-A1		
4637	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201380009678.4	ZL201380009678.4	104145489		
4638	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201404499	ID0000053358	2015/04160		
4639	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	4772/CHENP/2014		4772/CHENP/2014		
4640	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7020983	10-1662985	10-2014-0108320		
4641	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/009026	344688	MX/a/2014/009026		
4642	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014701976	MY-171514-A			
4643	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/626409	9225759	US-2013-0194991-A1	Yes	
4644	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	AU	2013212110	########	2013212110	Yes	
4645	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014018499-2		112014018499-2	Yes	
4646	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	13740758.1	2807870	2807870	Yes	
4647	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	13740758.1	2807870	2807870	Yes	
4648	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	13740758.1	2807870	2807870	Yes	
4649	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	13740758.1	2807870	2807870	Yes	
4650	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	13740758.1	2807870	2807870	Yes	
4651	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	13740758.1	2807870	2807870	Yes	
4652	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	13740758.1	2807870	2807870	Yes	
4653	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	13740758.1	2807870	2807870	Yes	
4654	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	13740758.1	2807870	2807870	Yes	
4655	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	13740758.1	2807870	2807870	Yes	
4656	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	13740758.1	2807870	2807870	Yes	
4657	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	13740758.1	2807870	2807870	Yes	
4658	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	13740758.1	2807870	2807870	Yes	
4659	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	13740758.1	2807870	2807870	Yes	
4660	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201405027		P00701405027	Yes	
4661	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4662	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-553550	5833258	2015-504297	Yes	
4663	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7020673	10-1667751	10-2014-0107596	Yes	
4664	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/009088	343645	MX/a/2014/009088	Yes	
4665	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014701971	MY-168338-A		Yes	
4666	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4667	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014134847	2594091	2014134847	Yes	
4668	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	RU	2016122958	2637187		Yes	
4669	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	US	13/593044	8885526	US-2013-0242816-A1	Yes	
4670	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	AU	2013232618	########	2013232618	Yes	
4671	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCD	PAT-Active	AU	2016203351	########	2016203351	Yes	
4672	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0171	1027184		Yes	
4673	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4674	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/314296	9258805	US-2014-0307596-A1	Yes	
4675	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	CA	2866352	2866352	2866352	Yes	
4676	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310083146.7	ZL201310083146.7	103312468	Yes	
4677	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	DIV	PAT-Active	CN	201410633688.7	ZL201410633688.7	104320226	Yes	
4678	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	DIV	APP-Pending	CN	201710052645.5		107659387	Yes	
4679	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	EPD	APP-Pending	HK	15109186.5		1249810	Yes	
4680	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	EPT	APP-Pending	EP	13760893.9		2826189	Yes	
4681	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	ETD	APP-Pending	EP	15151505.9		2863686	Yes	
4682	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	ES	P201330358	2453848	2453848	Yes	
4683	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	FI	20135235	127213	20135235	Yes	
4684	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	APP-Pending	FR	1357373		2988247	Yes	
4685	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	FPR	PAT-Active	HK	14102683.2	1189725	1189725	Yes	
4686	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	FPD	PAT-Active	HK	15104788.1	1204399	1204399	Yes	
4687	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	APP-Pending	IN	6541/CHENP/2014		6541/CHENP/2014	Yes	
4688	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000393	1416627	MI2013A000393	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4689	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500437	6064248	2015-515786	Yes	
4690	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7025704	10-1761988	10-2014-0124006	Yes	
4691	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	NL	2010449	2010449	2010449	Yes	
4692	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2014139406	2604432	2014139406	Yes	
4693	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	SE	1350307-3	537717	1350307	Yes	
4694	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	TW	102104851	I516054	201342841	Yes	
4695	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	DIV	PAT-Active	TW	103143030	I539771	201513601	Yes	
4696	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	NP	PAT-Active	US	13/591673	9398572	US-2013-0242885-A1		
4697	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500631	5951876	2015-515789		
4698	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7027275	10-1642214	10-2014-0142712		
4699	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	NP	PAT-Active	US	13/591865	9655086	US-2013-0242886-A1		
4700	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	PAT-Active	ES	137611497	2826174	2826174		
4701	In enhanced physical downlink control channel (ePDCCH)	[redacted]	[redacted]	NP	PAT-Active	US	13/598320	9226278	US-2013-0242770-A1	Yes	
4702	IMPROVEMENTS IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500637	5987231	2015-520531	Yes	
4703	DOWNLINK CONTROL INFORMATION (DCI) VALIDATION FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	CIP	PAT-Active	US	13/646223	9544876	US-2013-0242947-A1	Yes	
4704	SUPPORT FOR ASYNCHRONOUS ADAPTATION TO UPLINK AND DOWNLINK TRAFFIC DEMANDS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/592598	9288797	US-2013-0242812-A1	Yes	
4705	SUPPORT FOR ASYNCHRONOUS ADAPTATION TO UPLINK AND DOWNLINK TRAFFIC DEMANDS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/014770	9615378	US-2016-0164656-A1	Yes	
4706	TECHNIQUES FOR FRACTIONAL WIRELESS BROADBAND USAGE	[redacted]	[redacted]	NP	PAT-Active	US	13/627343	9397899	US-2014-0086103-A1		
4707	TECHNIQUES FOR FRACTIONAL WIRELESS BROADBAND USAGE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800443198	ZL2013800443198	104584608		
4708	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	137613535	2826291	2826291	Yes	
4709	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	AU	2013232628	########	2013232628	Yes	
4710	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	15/164085		US-2016-0270104-A1	Yes	
4711	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CA	2867017		2867017	Yes	
4712	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	137613535	2826291	2826291	Yes	
4713	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	137613535	2826291	2826291	Yes	
4714	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	137613535	2826291	2826291	Yes	
4715	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	137613535	2826291	2826291	Yes	
4716	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	137613535	2826291	2826291	Yes	
4717	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201405886	IDP000059319	2016/01006	Yes	
4718	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	6542/CHENP/2014		6542/CHENP/2014	Yes	
4719	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-052223	6141477	2016-106502	Yes	
4720	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7007375	10-1710847	10-2016-0040300	Yes	
4721	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011092	355521	MX/a/2014/011092	Yes	
4722	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4723	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014139284	2600451	2014139284	Yes	
4724	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	137613535	2826291	2826291	Yes	
4725	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/629928	9215701	US-2013-0242735-A1	Yes	
4726	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800147550	ZL2013800147550	104350798	Yes	
4727	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/570941	9526091	US-2013-0242720-A1	Yes	
4728	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	AU	2013232287	########	2013232287	Yes	
4729	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	AU	2015261557	########	2015261557	Yes	
4730	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0172	1021235		Yes	
4731	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4732	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/165311	9516628	US-2014-0140278-A1	Yes	
4733	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	201310083310X	ZL201310083310X	103313283	Yes	
4734	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	CN	2016108555248		106899989	Yes	
4735	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	171078925		1234250	Yes	
4736	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	137608139	2826275	2826275	Yes	
4737	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	137608139	2826275	2826275	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4738	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	137608139	2826275	2826275	Yes	
4739	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	137608139	2826275	2826275	Yes	
4740	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	161918297	3133857	3133857	Yes	
4741	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	AT	161918297	3133857	3133857	Yes	
4742	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	BE	161918297	3133857	3133857	Yes	
4743	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	CH	161918297	3133857	3133857	Yes	
4744	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	161918297	3133857	3133857	Yes	
4745	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	137608139	2826275	2826275	Yes	
4746	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EE	161918297	3133857	3133857	Yes	
4747	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	ES	161918297	3133857	3133857	Yes	
4748	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	161918297	3133857	3133857	Yes	
4749	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	161918297	3133857	3133857	Yes	
4750	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GR	161918297	3133857	3133857	Yes	
4751	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	HU	161918297	3133857	3133857	Yes	
4752	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	IE	161918297	3133857	3133857	Yes	
4753	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	161918297	3133857	3133857	Yes	
4754	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	PAT-Active	SK	161918297	3133857	3133857	Yes	
4755	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	137608139	2826275	2826275	Yes	
4756	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	137608139	2826275	2826275	Yes	
4757	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	137608139	2826275	2826275	Yes	
4758	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	137608139	2826275	2826275	Yes	
4759	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	137608139	2826275	2826275	Yes	
4760	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	137608139	2826275	2826275	Yes	
4761	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	137608139	2826275	2826275	Yes	
4762	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	FI	20135242	127165	20135242	Yes	
4763	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Pending	FI	20176077		20176077	Yes	
4764	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	FR	1352322	2988257	2988257	Yes	
4765	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Pending	FR	1757592		3055080	Yes	
4766	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201405885	IDP000046876	2016/01731	Yes	
4767	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	6558/CHENP/2014		6558/CHENP/2014	Yes	
4768	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000394	1416673	MI2013A000394	Yes	
4769	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7027043	10-1678754	10-2014-0136472	Yes	
4770	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7031886	10-1792638	10-2016-0136457	Yes	
4771	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7030937	10-1893890	10-2017-0122853	Yes	
4772	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011091	348729	MX/a/2014/011091	Yes	
4773	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4774	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014702600	MY-167457-A		Yes	
4775	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	NL	2010448	2010448	2010448	Yes	
4776	METHOD SYSTEM MACHINE NODE AND NETWORK MANAGER FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	NL	2014569	2014569	2014569	Yes	
4777	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2014139414	2596799	2014139414	Yes	
4778	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	RU	2016131671	2656148	2016131671	Yes	
4779	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	RU	2018115687	2690505		Yes	
4780	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	SE	1550680-1	540287	1550680	Yes	
4781	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Pending	SE	1850150-2		1850150	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4782	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	102108459	I481267	201352020	Yes	
4783	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	104103211	I556661	201536070	Yes	
4784	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	PAT-Active	ES	137606901	2826171	2826171		
4785	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/629546	8989118	US-2013-0242817-A1		
4786	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	137613634	2826167	2826167		
4787	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/536111	9326278	US-2015-0063104-A1	Yes	
4788	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500444	5861219	2015-513273	Yes	
4789	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-217000	6022019	2016-042726	Yes	
4790	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	NP	PAT-Active	US	13/626661	8793743	US-2013-0247118-A1	Yes	
4791	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	CNT	PAT-Active	US	14/318435	9432978	US-2014-0376440-A1	Yes	
4792	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/216993	10320552	US-2017-0019263-A1	Yes	
4793	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800182770	ZL2013800182770	104205884	Yes	
4794	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	APP-Pending	CN	2017105232210		107257268	Yes	
4795	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	FPD	APP-Pending	HK	171128818		1239973	Yes	
4796	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	APP-Pending	CN	2018103105342		108270524	Yes	
4797	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	FPD	APP-Pending	HK	181108367		1251733	Yes	
4798	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	EP	137613832	2826267	2826267	Yes	
4799	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	AT	137613832	2826267	2826267	Yes	
4800	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	BE	137613832	2826267	2826267	Yes	
4801	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	CH	137613832	2826267	2826267	Yes	
4802	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	ETD	APP-Pending	EP	171943756		3282726	Yes	
4803	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	DE	137613832	2826267	2826267	Yes	
4804	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	EE	137613832	2826267	2826267	Yes	
4805	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	ES	137613832	2826267	2826267	Yes	
4806	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	FR	137613832	2826267	2826267	Yes	
4807	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	GB	137613832	2826267	2826267	Yes	
4808	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	GR	137613832	2826267	2826267	Yes	
4809	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	IE	137613832	2826267	2826267	Yes	
4810	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	PAT-Active	NL	137613832	2826267	2826267	Yes	
4811	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Pending	IN	6538/CHENP/2014		6538/CHENP/2014	Yes	
4812	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	APP-Pending	IN	201748020153		201748020153	Yes	
4813	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-560927	6022610	2015-509690	Yes	
4814	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-197217	6285521	2017-005761	Yes	
4815	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7025683	10-1652188	10-2014-0134676	Yes	
4816	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7022849	10-1874729	10-2016-0104082	Yes	
4817	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	NP	PAT-Active	US	13/620093	8817734	US-2013-0242889-A1	Yes	
4818	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800145485	ZL2013800145485	104170294	Yes	
4819	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	PCD	APP-Pending	CN	2017104322031		107181574	Yes	
4820	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	FPD	APP-Pending	HK	181036088		1244128	Yes	
4821	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	EPT	APP-Pending	EP	137619052		2826177	Yes	
4822	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500670	5967286	2015-515790	Yes	
4823	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-121500	6350601	2016-192786	Yes	
4824	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/629682	8923323	US-2013-0242818-A1		
4825	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	NP	PAT-Active	US	13/631341	9271278	US-2013-0244656-A1		
4826	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800145466	ZL2013800145466	104205934		
4827	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	PAT-Active	ES	137602348	2826298	2826298		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4828	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-500450	5985036	2015-514338		
4829	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/631037	8917708	US-2014-0092885-A1	Yes	
4830	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/579131	9386617	US-2015-0110052-A1	Yes	
4831	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800452106	ZL2013800 452106	104604298	Yes	
4832	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	2019105487524		110225506	Yes	
4833	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	138407424		2901764	Yes	
4834	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	151109163		1210355	Yes	
4835	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-529809	6034496	2015-528675	Yes	
4836	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-210818	6301429	2017-055423	Yes	
4837	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004841	10-1681854	10-2015-0038329	Yes	
4838	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7032753	10-1841384	10-2016-0137687	Yes	
4839	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	NP	PAT-Active	US	13/623294	8861443	US-2014-0078939-A1		
4840	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800439671	ZL2013800 439671	104604307		
4841	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	EP	138392782	2898733	2898733		
4842	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	AT	138392782	2898733	2898733		
4843	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	BE	138392782	2898733	2898733		
4844	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	CH	138392782	2898733	2898733		
4845	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	DE	138392782	2898733	2898733		
4846	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	EE	138392782	2898733	2898733		
4847	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	ES	138392782	2898733	2898733		
4848	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	FR	138392782	2898733	2898733		
4849	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	GB	138392782	2898733	2898733		
4850	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	GR	138392782	2898733	2898733		
4851	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	HU	138392782	2898733	2898733		
4852	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	IE	138392782	2898733	2898733		
4853	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	NL	138392782	2898733	2898733		
4854	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	SK	138392782	2898733	2898733		
4855	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	AT	138423389	2901800	2901800		
4856	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	BE	138423389	2901800	2901800		
4857	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	CH	138423389	2901800	2901800		
4858	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800456268	ZL2013800 456268	104604322		
4859	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	DE	138423389	2901800	2901800		
4860	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	EE	138423389	2901800	2901800		
4861	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	EP	138423389	2901800	2901800		
4862	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	ES	138423389	2901800	2901800		
4863	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	FR	138423389	2901800	2901800		
4864	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	GB	138423389	2901800	2901800		
4865	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	GR	138423389	2901800	2901800		
4866	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	HU	138423389	2901800	2901800		
4867	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	IE	138423389	2901800	2901800		
4868	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	NL	138423389	2901800	2901800		
4869	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	EPT	PAT-Active	SK	138423389	2901800	2901800		
4870	BASEBAND CANCELLATION OF PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800388805	ZL2013800 388805	104508985		
4871	BASEBAND CANCELLATION OF PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	EPT	APP-Pending	EP	138311204		2888821		
4872	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	US	13/631379	9641297	US-2013-0265938-A1	Yes	
4873	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0256	1021622		Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4874	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	BE	2015/5389	1023247	1023247	Yes	
4875	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4876	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	CNT	PAT-Active	US	14/259423	9634810	US-2014-0235283-A1	Yes	
4877	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	CNT	PAT-Active	US	15/460152	9854416	US-2017-0188210-A1	Yes	
4878	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	APP-Pending	CN	2016108619095		107071691	Yes	
4879	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	FPD	APP-Pending	HK	171110140		1237179	Yes	
4880	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	EPT	PAT-Active	EP	137751046	2837215	2837215	Yes	
4881	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	ETD	APP-Pending	EP	161913314		3139644	Yes	
4882	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	EPT	PAT-Active	DE	137751046	########	2837215	Yes	
4883	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	EPT	PAT-Active	NL	137751046	2837215	2837215	Yes	
4884	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	ES	P201330503	2446851	2446851	Yes	
4885	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	FI	20135345	127214	20135345	Yes	
4886	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	FI	20165879	128110	20165879	Yes	
4887	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	FR	1353182	2990098	2990098	Yes	
4888	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	FR	1661969	3045265	3045265	Yes	
4889	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	APP-Pending	IN	6811/CHENP/2014		6811/CHENP/2014	Yes	
4890	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000540	1417016	MI2013A000540	Yes	
4891	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-193646	6378275	2017-022775	Yes	
4892	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	JP	2018-140294	6532993	2018-191325	Yes	
4893	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7018318	10-1970420	10-2017-0082648	Yes	
4894	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	NL	2010600	2010600	2010600	Yes	
4895	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	PAT-Active	TW	102112496	I506983	201404079	Yes	
4896	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	TW	103126394	I506984	201444317	Yes	
4897	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	DIV	PAT-Active	TW	104129001	I600296	201613311	Yes	
4898	FRAME STRUCTURE DESIGN FOR NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	NP	PAT-Active	US	13/628129	9078109	US-2013-0265945-A1		
4899	FRAME STRUCTURE DESIGN FOR NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	CNT	PAT-Active	US	14/725550	9712302	US-2015-0263839-A1		
4900	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/626767	9584793	US-2013-0266289-A1	Yes	
4901	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	AU	2013246041	########	2013246041	Yes	
4902	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	AU	2016203175	########	2016203175	Yes	
4903	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0244	1021405		Yes	
4904	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
4905	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/581756	9787967	US-2015-0113572-A1	Yes	
4906	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CA	2868038	2868038	2868038	Yes	
4907	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	CA	2957198	2957198	2957198	Yes	
4908	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/683682	10194134	US-2017-0353709-A1	Yes	
4909	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	201310121164 5	ZL2013101 211645	103369467	Yes	
4910	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	CN	2016103429323	ZL2016103 429323	105915882	Yes	
4911	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	137760492		2837192	Yes	
4912	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	ETD	APP-Pending	EP	151709003		2966875	Yes	
4913	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	ES	P201330496	2482605	2482605	Yes	
4914	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	FI	20135313	126988	20135313	Yes	
4915	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	FI	20175391		20175391	Yes	
4916	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	FR	1353180	2993426	2993426	Yes	
4917	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	FPR	PAT-Active	HK	141007997	1187769	1187769	Yes	
4918	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	171020522		1228623	Yes	
4919	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201405789		2016/01709	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4920	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	6812/CHENP/2014		6812/CHENP/2014	Yes	
4921	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000537	1417014	MI2013A000537	Yes	
4922	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-504772	6248330	2015-515830	Yes	
4923	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-174415	6428885	2018-014746	Yes	
4924	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7026843	10-1630108	10-2014-0136007	Yes	
4925	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7014926	10-1727875	10-2016-0075787	Yes	
4926	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7009637	10-1881265	10-2017-0044205	Yes	
4927	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011579	341486	MX/a/2014/011579	Yes	
4928	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/A/2016/010858	362598		Yes	
4929	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014702689	MY-168796-A		Yes	
4930	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	NL	2010602	2010602	2010602	Yes	
4931	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014138947	2591174	2014138947	Yes	
4932	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	RU	2016122772	2643446		Yes	
4933	SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	SE	1350444-4	537942	1350444	Yes	
4934	COMPUTER-READABLE MEDIUM APPARATUS AND MOBILE DEVICE FOR SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	102111699	I578756	201401849	Yes	
4935	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	US	13/628340	9438883	US-2013-0268577-A1	Yes	
4936	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0245	1021061		Yes	
4937	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	BE	2013/0739	1023100		Yes	
4938	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/053495	9161013	US-2014-0047123-A1	Yes	
4939	APPARATUS AND METHOD FOR QUALITY OF EXPERIENCE REPORTING FOR DYNAMIC STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	CN	2013101209664	ZL2013101209664	103368940	Yes	
4940	APPARATUS METHOD AND SYSTEM FOR QUALITY OF EXPERIENCE QOE MONITORING	[redacted]	[redacted]	DIV	PAT-Active	CN	201310527574X	ZL201310527574X	103546477	Yes	
4941	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	US	15/220256	10200668	US-2016-0337676-A1	Yes	
4942	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	ES	P201330498	2534027	2534027	Yes	
4943	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	ES	P201331593	2532871	2532871	Yes	
4944	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	APP-Pending	FI	20135322		20135322	Yes	
4945	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	APP-Pending	FI	20136057		20136057	Yes	
4946	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	FR	1353181	2989855	2989855	Yes	
4947	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	FR	1360737	2994783	2994783	Yes	
4948	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	FPR	PAT-Active	HK	141004865	1187745	1187745	Yes	
4949	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000539	1417015	MI2013A000539	Yes	
4950	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	IT	MI2013A001801	1420800	MI2013A001801	Yes	
4951	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-501957	5914748	2015-519770	Yes	
4952	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7026470	10-1584476	10-2014-0125885	Yes	
4953	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	PAT-Active	NL	2010605	2010605	2010605	Yes	
4954	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	NL	2011716	2011716	2011716	Yes	
4955	APPARATUS AND METHOD FOR COMMUNICATION AND COMPUTER READABLE MEDIUM	[redacted]	[redacted]	NP	PAT-Active	TW	102111885	I528806	201351974	Yes	
4956	APPARATUS METHOD AND SYSTEM OF QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	PAT-Active	TW	102139092	I547160	201408055	Yes	
4957	SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN WIRELESS NETWORKS IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800170646	ZL2013800170646	104221410	Yes	
4958	DYNAMIC RXDIV FOR IDLE MODE IN A USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/423719	9144020	US-2013-0244665-A1		
4959	DYNAMIC RxDiv FOR IDLE MODE IN A USER EQUIPMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/808421	9883458	US-2016-0029306-A1		
4960	DYNAMIC RXDIV FOR IDLE MODE IN A USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	CN	201310165905X	ZL201310165905X	103327584		
4961	DYNAMISCHE RXDIV FÜR LEERLAUFMODUS IN EINEM ANWENDERGERÄT	[redacted]	[redacted]	NP	PAT-Active	DE	1020131027946	########	102013102794		
4962	APPLICATION CONTINUITY WITH REROUTE AND RESET IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800358852	ZL2013800358852	104412666		
4963	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138139084	########	2868143		
4964	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138139084	2868143	2868143		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
4965	SWITCHED MODE POWER SUPPLY AND A METHOD FOR OPERATING A SWITCHED MODE POWER SUPPLY	[redacted]	[redacted]	NP	PAT-Active	US	13/495067	9048730	US-2013-0336011-A1		
4966	A SWITCHED MODE POWER SUPPLY AND A METHOD FOR OPERATING A SWITCHED MODE POWER SUPPLY	[redacted]	[redacted]	NP	PAT-Active	CN	201310222491X	ZL2013102 22491X	103490633		
4967	SWITCHED-MODE POWER SUPPLY AND A TWO-PHASE DC TO DC CONVERTER HAVING SWITCHES AND A FILTER THAT DELIVER CURRENT FROM A NODE AMONG CONVERTER STAGES	[redacted]	[redacted]	NP	PAT-Active	US	13/495089	9118241	US-2013-0336012-A1		
4968	A SWITCHED-MODE POWER SUPPLY AND A TWO-PHASE DC TO DC CONVERTER	[redacted]	[redacted]	NP	PAT-Active	CN	20131023265557	ZL2013102 326557	103490629		
4969	SCHALTNETZTEIL UND EIN ZWEIPHASEN-DC-DC-WANDLER	[redacted]	[redacted]	NP	APP-Pending	DE	1020131057918		102013105791		
4970	SWITCHED MODE POWER SUPPLY EMPLOYING FIRST AND SECOND FEEDBACK SIGNALS AND A METHOD OF OPERATING THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	13/495108	9035627	US-2013-0335048-A1		
4971	SWITCHED MODE POWER SUPPLY AND METHOD OF OPERATING THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	2013102253382	ZL2013102 253382	103516206		
4972	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/674123	9332452	US-2013-0324050-A1		
4973	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013102092732	ZL2013102 092732	103516446		
4974	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/803023	9954904	US-2013-0332615-A1	Yes	
4975	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	APP-Pending	US	15/919051		US-2018-0205768-A1	Yes	
4976	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013102253113	ZL2013102 253113	103491068	Yes	
4977	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2017109288624		107659913	Yes	
4978	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	FPD	APP-Pending	HK	181091963		1249816	Yes	
4979	KOMMUNIKATIONSVORRICHTUNGEN UND VERFAHREN ZUM BETREIBEN EINER KOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131056334		102013105633	Yes	
4980	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	FPR	PAT-Active	HK	141065629	1193268	1193268	Yes	
4981	DEVICE FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL AND METHOD FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	13/834736	9225565	US-2013-0259152-A1		
4982	DEVICE FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL AND METHOD FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	14/942336	9444666	US-2016-0142234-A1		
4983	DEVICE FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL AND METHOD FOR GENERATING A VECTOR-MODULATED OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2013100907851	ZL2013100 907851	103368523		
4984	VORRICHTUNG ZUM ERZEUGEN EINES VEKTORMODULIERTEN AUSGANGSSIGNALS UND VERFAHREN ZUM ERZEUGEN EINES VEKTORMODULIERTEN AUSGANGSSIGNALS	[redacted]	[redacted]	NP	PAT-Active	DE	1020122044507	########	102012204450		
4985	MOBILE WIRELESS DEVICES AND METHODS OF OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	13/688244	9072070	US-2014-0148178-A1		
4986	MOBILE WIRELESS DEVICES AND METHODS OF OPERATION	[redacted]	[redacted]	NP	PAT-Active	CN	2013106195013	ZL2013106 195013	103857037		
4987	MOBILE WIRELESS DEVICES AND METHODS OF OPERATION	[redacted]	[redacted]	DIV	APP-Pending	CN	2018101343346		108024334		
4988	MOBILE WIRELESS DEVICES AND METHODS OF OPERATION	[redacted]	[redacted]	NP	PAT-Active	DE	1020131124631	########	102013112463		
4989	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
4990	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/762408	9420475	US-2014-0226560-A1		
4991	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2014100448253	ZL2014100 448253	103986487		
4992	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	2017100181119		106850160		
4993	CELL TRANSFER CONTROLLER AND METHOD FOR SELECTING A RADIO CELL	[redacted]	[redacted]	NP	PAT-Active	US	13/671639	8892106	US-2014-0128083-A1		
4994	CELL TRANSFER CONTROLLER AND METHOD FOR SELECTING A RADIO CELL	[redacted]	[redacted]	NP	PAT-Active	CN	2013106804543	ZL2013106 804543	103813400		
4995	CELL TRANSFER CONTROLLER AND METHOD FOR SELECTING A RADIO CELL	[redacted]	[redacted]	DIV	APP-Pending	CN	2018102003017		108184257		
4996	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800289091	ZL2013800 289091	104737511	Yes	
4997	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCD	APP-Pending	CN	2017104739340		107257539	Yes	
4998	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	FPD	APP-Pending	HK	171132466		1240444	Yes	
4999	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201408280	IDP000053 302	2017/00065	Yes	
5000	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-515293	5989899	2015-525518	Yes	
5001	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-158566	6208303	2017-005745	Yes	
5002	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7033420	10-1599664	10-2015-0003385	Yes	
5003	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7004919	10-1941754	10-2016-0029142	Yes	
5004	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/014726	345823	MX/a/2014/014726	Yes	
5005	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/A/2017/002136	365298		Yes	
5006	METHODS AND ARRANGEMENTS FOR HIGH-SPEED ANALOG-TO-DIGITAL CONVERSION	[redacted]	[redacted]	NP	PAT-Active	US	13/631949	8754800	US-2014-0091960-A1		
5007	METHOD APPARATUS AND SYSTEM TO GENERATE FEEDBACK FOR AUTOMATIC GAIN CONTROL	[redacted]	[redacted]	NP	PAT-Active	CN	2013106373947	ZL2013106 373947	103716053		
5008	VERFAHREN UND ANORDNUNGEN FUR SCHNELLE ANALOG-DIGITAL UMSETZUNG	[redacted]	[redacted]	NP	PAT-Active	DE	1020131096832	########	102013109683		
5009	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2013104947398	ZL2013104 947398	103685596		
5010	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	131820433	2704459	2704459		
5011	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	AT	131820433	2704459	2704459		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5012	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	BE	131820433	2704459	2704459		
5013	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	CH	131820433	2704459	2704459		
5014	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	131820433	2704459	2704459		
5015	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EE	131820433	2704459	2704459		
5016	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	ES	131820433	2704459	2704459		
5017	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	131820433	2704459	2704459		
5018	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	131820433	2704459	2704459		
5019	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GR	131820433	2704459	2704459		
5020	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	HU	131820433	2704459	2704459		
5021	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	IE	131820433	2704459	2704459		
5022	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	NL	131820433	2704459	2704459		
5023	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	SK	131820433	2704459	2704459		
5024	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201410034833	ZL201410034833	103973667		
5025	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	NP	PAT-Active	US	13/688423	9246842	US-2013-0286868-A1		
5026	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	PCD	APP-Pending	CN	201811304691		109039895		
5027	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	PAT-Active	EP	137811873	2842269	2842269		
5028	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	PAT-Active	DE	137811873	2842269	2842269		
5029	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	PAT-Active	FR	137811873	2842269	2842269		
5030	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	PAT-Active	GB	137811873	2842269	2842269		
5031	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	PAT-Active	NL	137811873	2842269	2842269		
5032	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	137881736	2848072	2848072		
5033	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	137881736	2848072	2848072		
5034	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	137881736	2848072	2848072		
5035	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024786	ZL201380024786	104285494		
5036	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	137881736	2848072	2848072		
5037	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	137881736	2848072	2848072		
5038	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	137881736	2848072	2848072		
5039	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	137881736	2848072	2848072		
5040	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	137881736	2848072	2848072		
5041	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	137881736	2848072	2848072		
5042	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	137881736	2848072	2848072		
5043	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	137881736	2848072	2848072		
5044	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	137881736	2848072	2848072		
5045	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	137881736	2848072	2848072		
5046	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	137881736	2848072	2848072		
5047	APPARATUS AND METHOD TO ENABLE DEVICE-TO-DEVICE (D2D) DISCOVERY IN CELLULAR NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/756013	9325485	US-2013-0273923-A1		
5048	AN APPARATUS AND METHOD TO ENABLE DEVICE-TO-DEVICE (D2D) DISCOVERY IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380071583	ZL201380071583	104935548		
5049	EVOLVED NODE B USER EQUIPMENT AND METHOD FOR OPERATION OF NARROW BANDWIDTH USER EQUIPMENT IN WIDE BANDWIDTH BROADBAND NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/682950	9237437	US-2013-0272215-A1		
5050	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/734356	9119097	US-2013-0272170-A1	Yes	
5051	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/823818	9756661	US-2015-0349942-A1	Yes	
5052	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/643237	10231264	US-2017-0311350-A1	Yes	
5053	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201380017088	ZL201380017088	104205673	Yes	
5054	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	201810923416		108667591	Yes	
5055	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPD	APP-Pending	HR	191223775			Yes	
5056	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	137760104	2837110	2837110	Yes	
5057	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	137760104	2837110	2837110	Yes	
5058	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	137760104	2837110	2837110	Yes	
5059	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	137760104	2837110	2837110	Yes	
5060	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	137760104	2837110	2837110	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5061	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	137760104	2837110	2837110	Yes	
5062	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	ES	137760104	2837110	2837110	Yes	
5063	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	FR	137760104	2837110	2837110	Yes	
5064	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	GB	137760104	2837110	2837110	Yes	
5065	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	GR	137760104	2837110	2837110	Yes	
5066	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	HU	137760104	2837110	2837110	Yes	
5067	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	IE	137760104	2837110	2837110	Yes	
5068	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	NL	137760104	2837110	2837110	Yes	
5069	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK			EPT	PAT-Active	SK	137760104	2837110	2837110	Yes	
5070	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK			CNT	PAT-Active	US	14/794731	9814070	US-2015-0327301-A1		
5071	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	ID	PID2016405901	IDP000054636	2016/01870		
5072	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Pending	IN	6815/CHENP/2014		6815/CHENP/2014		
5073	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK			PCT	PAT-Active	MX	MX/a/2014/011467	344027	MX/a/2014/011467		
5074	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Pending	MY	PI2014702727		PI 2014702727		
5075	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)	[redacted]	[redacted]	NP	PAT-Active	US	13/631213	9130698	US-2013-0303231-A1	Yes	
5076	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			CNT	PAT-Active	US	14/800150	9496973	US-2016-0014662-A1	Yes	
5077	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			PCT	APP-Pending	CN	201380024750.6		104303557	Yes	
5078	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	EP	13787247.9	2848039	2848039	Yes	
5079	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	AT	13787247.9	2848039	2848039	Yes	
5080	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	BE	13787247.9	2848039	2848039	Yes	
5081	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	CH	13787247.9	2848039	2848039	Yes	
5082	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	DE	13787247.9	60038048	2848039	Yes	
5083	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	EE	13787247.9	2848039	2848039	Yes	
5084	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	ES	13787247.9	2848039	2848039	Yes	
5085	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	FR	13787247.9	2848039	2848039	Yes	
5086	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	GB	13787247.9	2848039	2848039	Yes	
5087	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	GR	13787247.9	2848039	2848039	Yes	
5088	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	HU	13787247.9	2848039	2848039	Yes	
5089	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	IE	13787247.9	2848039	2848039	Yes	
5090	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	NL	13787247.9	2848039	2848039	Yes	
5091	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			EPT	PAT-Active	SK	13787247.9	2848039	2848039	Yes	
5092	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)			PCT	PAT-Active	JP	2015-511661	6005849	2015-520560	Yes	
5093	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			NP	PAT-Active	US	13/681508	8982741	US-2013-0301489-A1	Yes	
5094	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			CNT	PAT-Active	US	14/532570	9673918	US-2015-0055524-A1	Yes	
5095	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			CNT	PAT-Active	US	15/614185	10433254	US-2018-0063792-A1	Yes	
5096	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			PCT	PAT-Active	CN	201380024756.8	ZL201380024756.8	104285389	Yes	
5097	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			PCD	APP-Pending	CN	201810796595.4		108540169	Yes	
5098	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			PPD	APP-Pending	HK	18112915.7		1253793	Yes	
5099	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	EP	13788320.3	2847893	2847893	Yes	
5100	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	AT	13788320.3	2847893	2847893	Yes	
5101	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	BE	13788320.3	2847893	2847893	Yes	
5102	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	CH	13788320.3	2847893	2847893	Yes	
5103	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	DE	13788320.3	2847893	2847893	Yes	
5104	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	EE	13788320.3	2847893	2847893	Yes	
5105	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	ES	13788320.3	2847893	2847893	Yes	
5106	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	FR	13788320.3	2847893	2847893	Yes	
5107	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	GB	13788320.3	2847893	2847893	Yes	
5108	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	GR	13788320.3	2847893	2847893	Yes	
5109	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	HU	13788320.3	2847893	2847893	Yes	
5110	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	IE	13788320.3	2847893	2847893	Yes	
5111	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT			EPT	PAT-Active	NL	13788320.3	2847893	2847893	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5112	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX {TDD} UPLINK-DOWNLINK {UL-DL} CONFIGURATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	SK	137883203	2847893	2847893	Yes	
5113	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX {TDD} UPLINK-DOWNLINK {UL-DL} CONFIGURATION MANAGEMENT	[redacted]	[redacted]	FPR	PAT-Active	HK	15106712?	1206156	1206156	Yes	
5114	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX {TDD} UPLINK-DOWNLINK {UL-DL} CONFIGURATION MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-507265	5997368	2015-515230	Yes	
5115	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX {TDD} UPLINK-DOWNLINK {UL-DL} CONFIGURATION MANAGEMENT	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-164639	6373914	2017-072731	Yes	
5116	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX {TDD} UPLINK-DOWNLINK {UL-DL} CONFIGURATION MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7030472	10-1594934	10-2014-0139609	Yes	
5117	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/681315	8854981	US-2013-0286867-A1	Yes	
5118	INTRACELL DEVICE-TO-DEVICE COMMUNICATION CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	14/588090	9577186	US-2016-0183418-A1		
5119	INTRACELL DEVICE-TO-DEVICE COMUNICATION CONTROL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580065748		107005795		
5120	INTRACELL DEVICE-TO-DEVICE COMUNICATION CONTROL	[redacted]	[redacted]	FPR	APP-Pending	HK	17111517?		1238465		
5121	SCHEDULING SYNCHRONIZATION SIGNALS IN A NEW CARRIER TYPE	[redacted]	[redacted]	CNT	PAT-Active	US	14/887103	10057855	US-2016-0044615-A1		
5122	SCHEDULING SYNCHRONIZATION SIGNALS IN A NEW CARRIER TYPE	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024744?	ZL2013800247440	104303478		
5123	SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	US	13/781776	9014064	US-2013-0301490-A1		
5124	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024769?	ZL2013800247690	104285392		
5125	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EP	13788059?	2847904	2847904		
5126	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	AT	13788059?	2847904	2847904		
5127	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	BE	13788059?	2847904	2847904		
5128	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	CH	13788059?	2847904	2847904		
5129	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	DE	13788059?	2847904	2847904		
5130	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EE	13788059?	2847904	2847904		
5131	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	ES	13788059?	2847904	2847904		
5132	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	FR	13788059?	2847904	2847904		
5133	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GB	13788059?	2847904	2847904		
5134	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GR	13788059?	2847904	2847904		
5135	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	HU	13788059?	2847904	2847904		
5136	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	IE	13788059?	2847904	2847904		
5137	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	NL	13788059?	2847904	2847904		
5138	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST {HARQ} TIMING INDICATION FOR AN UPLINK-DOWNLINK {UL-DL} RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	SK	13788059?	2847904	2847904		
5139	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/718334	9407391	US-2013-0301459-A1	Yes	
5140	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	13786929?	2848048	2848048	Yes	
5141	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	AU	201325972?	[redacted]	201325972?	Yes	
5142	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	AU	201621059?	[redacted]	201621059?	Yes	
5143	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014025345-5		112014025345-5	Yes	
5144	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	BR	122016024279-0		122016024279-0	Yes	
5145	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380021002?	ZL2013800210022	104396313	Yes	
5146	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	CN	201610960752?		106851792	Yes	
5147	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	FPD	APP-Pending	HK	17107263?		1233824	Yes	
5148	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	13786929?	2848048	2848048	Yes	
5149	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	13786929?	2848048	2848048	Yes	
5150	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	13786929?	2848048	2848048	Yes	
5151	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	13786929?	2848048	2848048	Yes	
5152	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	13786929?	2848048	2848048	Yes	
5153	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	13786929?	2848048	2848048	Yes	
5154	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	13786929?	2848048	2848048	Yes	
5155	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	13786929?	2848048	2848048	Yes	
5156	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	13786929?	2848048	2848048	Yes	
5157	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	13786929?	2848048	2848048	Yes	
5158	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	13786929?	2848048	2848048	Yes	
5159	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201406867	ID0000057 609	2015/01017	Yes	
5160	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	7498/CHENP/2014		7498/CHENP/2014	Yes	
5161	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
5162	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-509219	6026646	2015-515241	Yes	
5163	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-201320	6370855	2017-041904	Yes	
5164	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7031575	10-1722418	10-2014-0145194	Yes	
5165	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7035169	10-1803460	10-2016-0138594	Yes	
5166	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/013757	343158	MX/a/2014/013757	Yes	
5167	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/018014	361781	361781	Yes	
5168	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2014703085		PI 2014703085	Yes	
5169	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	13786929?	2848048	2848048	Yes	
5170	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	RU	2016141603	2578166	0002578166	Yes	
5171	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	13786929?	2848048	2848048	Yes	
5172	COORDINATED DYNAMIC POINT SELECTION {DPS} WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT {CoMP} SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/725370	9231723	US-2013-0303167-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5173	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024724.3	ZL201380024724.3	104285389		
5174	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	13788541.8	2847886	2847886		
5175	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	13788541.8	2847886	2847886		
5176	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	13788541.8	2847886	2847886		
5177	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	13788541.8	2847886	2847886		
5178	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	13788541.8	########	2847886		
5179	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	13788541.8	2847886	2847886		
5180	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	13788541.8	2847886	2847886		
5181	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	13788541.8	2847886	2847886		
5182	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	13788541.8	2847886	2847886		
5183	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	13788541.8	2847886	2847886		
5184	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	13788541.8	2847886	2847886		
5185	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IE	13788541.8	2847886	2847886		
5186	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	13788541.8	2847886	2847886		
5187	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	13788541.8	2847886	2847886		
5188	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) INTERFERENCE MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024784.5	ZL201380024784.5	104303438		
5189	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/756663	9681382	US-2013-0301420-A1	Yes	
5190	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0336	1021576		Yes	
5191	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	CN	201310234324.6	ZL201310234324.6 / 943245	103427855	Yes	
5192	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	CN	201610388785.1		105813090	Yes	
5193	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	13788099.3		2847892	Yes	
5194	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	ES	P201330674	2463215	2463215	Yes	
5195	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	FI	20135489	126412	20135489	Yes	
5196	TITRE NON RENSEIGNE	[redacted]	[redacted]	NP	PAT-Active	FR	1354221	2990589	2990589	Yes	
5197	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	FR	1656614		3079712	Yes	
5198	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	PPD	APP-Pending	HK	16111250.4		1225226	Yes	
5199	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000772	1417746	MI2013A000772	Yes	
5200	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-511760	6026680	2015-525425	Yes	
5201	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7030481	10-1595412	10-2014-0142345	Yes	
5202	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7005648	10-1938463	10-2016-0029513	Yes	
5203	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	NL	2010786	2010786	2010786	Yes	
5204	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	NL	2015015	2015015	2015015	Yes	
5205	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	SE	1350583-9	539331	1350583	Yes	
5206	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	SE	1750296-4		1750296	Yes	
5207	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	102116074	I525009	201407981	Yes	
5208	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	TW	104143862	I599607	201628358	Yes	
5209	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	TW	106113503		201731249	Yes	
5210	PERFORMING A HANDOVER IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/756665	9225489	US-2013-0301439-A1		
5211	PERFORMING A HANDOVER IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024695.0	ZL201380024695.0 / 246950	104285471		
5212	PERFORMING A HANDOVER IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	13788093.6		2848040		
5213	PERFORMING A HANDOVER IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-511782	6017034	2015-520564		
5214	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/729568	9264213	US-2013-0301547-A1	Yes	
5215	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0332	1023198	10-2016-0029513	Yes	
5216	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	DIV	PAT-Active	BE	2015/5756	1023200	1023200	Yes	
5217	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	BR	112014027933-0		112014027933-0	Yes	
5218	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	CN	201310304056.1	ZL201310304056.1 / 304056	103428888	Yes	
5219	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EP	13786987.1	2848075	2848075	Yes	
5220	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	EPT	PAT-Active	DE	13786987.1	########	2848075		
5221	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	EPT	PAT-Active	FR	13786987.1	2848075	2848075		
5222	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GB	13786987.1	2848075	2848075		
5223	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	EPT	PAT-Active	NL	13786987.1	2848075	2848075		
5224	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	ES	P201330676	2463216	2463216	Yes	
5225	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	FI	20135490	127258	20135490	Yes	
5226	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	FR	1354223	2990584	2990584	Yes	
5227	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	DIV	PAT-Active	FR	1663099		3085096	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5228	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	IN	7568/CHENP/2014		7568/CHENP/2014	Yes	
5229	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000773	1417747	MI2013A000773	Yes	
5230	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-511784	6038062	2015-520565	Yes	
5231	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-715153	6430457	2017-063454	Yes	
5232	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7031589	10-1637800	10-2015-0000504	Yes	
5233	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	PAT-Active	NL	2010784	2010784	2010784	Yes	
5234	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	NP	APP-Pending	SE	1350582-1		1350582	Yes	
5235	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	DIV	APP-Pending	SE	1551610-7		1551610	Yes	
5236	MOBILE STATION OR USER EQUIPMENT AND METHOD FOR FORMING PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	NP	PAT-Active	TW	102115685	I535324	201352044	Yes	
5237	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/681361	8874103	US-2013-0303160-A1		
5238	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/525100	9270400	US-2015-0045060-A1		
5239	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	13788400.3	2848017	2848017		
5240	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	AT	13788400.3	2848017	2848017		
5241	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	BE	13788400.3	2848017	2848017		
5242	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	CH	13788400.3	2848017	2848017		
5243	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	13788400.3	2848017	2848017		
5244	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EE	13788400.3	2848017	2848017		
5245	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	ES	13788400.3	2848017	2848017		
5246	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	13788400.3	2848017	2848017		
5247	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	13788400.3	2848017	2848017		
5248	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GR	13788400.3	2848017	2848017		
5249	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	HU	13788400.3	2848017	2848017		
5250	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	IE	13788400.3	2848017	2848017		
5251	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	13788400.3	2848017	2848017		
5252	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	SK	13788400.3	2848017	2848017		
5253	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201406894		2016/02147		
5254	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	7569/CHENP/2014		7569/CHENP/2014		
5255	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-511638	5990814	2015-520559		
5256	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7030273	10-1623505	10-2015-0002713		
5257	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/012731	342253	MX/a/2014/012713		
5258	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2014703089		PI2014703089		
5259	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/729164	9661658	US-2013-0272262-A1	Yes	
5260	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	AU	2013245908	2013245908	2013245908	Yes	
5261	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112014024481-2		112014024481-2	Yes	
5262	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	BR	122016024992-1		122016024992-1	Yes	
5263	USER EQUIPMENT CONFIGURED TO PROVIDE SYNCHRONIZATION INFORMATION FOR SIDELINK D2D COMMUNICATIONS USING ALLOCATED RESOURCE UNITS	[redacted]	[redacted]	CNT	PAT-Active	US	15/261435	9936521	US-2016-0381708-A1	Yes	
5264	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CA	2869000	2869000	2869000	Yes	
5265	USER EQUIPMENT CONFIGURED TO PROVIDE SYNCHRONIZATION INFORMATION FOR SIDELINK D2D COMMUNICATIONS USING ALLOCATED RESOURCE UNITS	[redacted]	[redacted]	CNT	PAT-Active	US	15/880680	10091818	US-2018-0167974-A1	Yes	439
5266	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	ETD	APP-Pending	EP	16190527.8		3166234	Yes	
5267	[redacted]										
5268											
5269											
5270											
5271	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201405738	IDP000056498	2016/01850	Yes	
5272	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	ID	P00201606257		2017/07563	Yes	
5273	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	6977/CHENP/2013		6977/CHENP/2013	Yes	
5274	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	IN	201648029914		201648029914	Yes	
5275	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-505892	5986289	2015-518333	Yes	
5276	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-153870	6424398	2017-005740	Yes	
5277	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7027037	10-1613358	10-2014-0130518	Yes	
5278	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011698	347089	MX/a/2014/011698	Yes	
5279	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/014213	364604	364604	Yes	
5280	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	MY	PI2016703661		PI 2016703661	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5281	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	BG	2014138943	2593269	2014138943	Yes	
5282	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	BG	2016125897	2643702	00002643702	Yes	
5283	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	NP	PAT-Active	US	13/751252	9066258	US-2013-0272182-A1		
5284	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-501958	6077640	2015-515803		
5285	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-508952	5954647	2015-518335		
5286	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-111294	6250736	2016-195400		
5287	EXCHANGING CONFIGURATION DATA	[redacted]	[redacted]	NP	PAT-Active	US	13/681370	9345024	US-2013-0272181-A1		
5288	DOWNLINK CONTROL INDICATION FOR A STAND-ALONE NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024351X	ZL201380024151X	104303440		
5289	DOWNLINK CONTROL INDICATION FOR A STAND-ALONE NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	APP-Pending	EP	13787896.1		2887903		
5290	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/665715	8942173	US-2013-0272196-A1		
5291	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201405792	IDP000048443	2016/01389		
5292	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	6827/CHENP/2014		6827/CHENP/2014		
5293	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-505878	6038283	2015-518886		
5294	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011578	340623	MX/a/2014/011578		
5295	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014702725	MY-170674-A	PI2014702725		
5296	AN APPARATUS AND METHOD TO ESTABLISH A DEVICE-TO-DEVICE (D2D) CONNECTION IN A 3GPP-LTE NETWORK USING A DISTRIBUTED CHANNEL SCAN	[redacted]	[redacted]	PCT	PAT-Active	CN	201380024736X	ZL201380024736X	104303432		
5297	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/688417	9185620	US-2013-0322235-A1		
5298	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	WP	PAT-Active	CN	201310203846X	ZL201310203846X	103517327		
5299	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-510516	5876926	2015-515842		
5300	DUAL-BAND FOLDED META-INSPIRED ANTENNA WITH USER EQUIPMENT EMBEDDED WIDEBAND CHARACTERISTICS	[redacted]	[redacted]	NP	PAT-Active	US	13/692186	9287630	US-2014-0152518-A1		
5301	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/783652	9030984	US-2014-0198694-A1		
5302	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480003432X	ZL201480003432X	104904279		
5303	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	14740575.7	2946613	2946613		
5304	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	14740575.7	2946613	2946613		
5305	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	14740575.7	2946613	2946613		
5306	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	14740575.7	2946613	2946613		
5307	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	14740575.7	2946613	2946613		
5308	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	14740575.7	2946613	2946613		
5309	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	14740575.7	2946613	2946613		
5310	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	14740575.7	2946613	2946613		
5311	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	14740575.7	2946613	2946613		
5312	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	14740575.7	2946613	2946613		
5313	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	14740575.7	2946613	2946613		
5314	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	14740575.7	2946613	2946613		
5315	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	14740575.7	2946613	2946613		
5316	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	14740575.7	2946613	2946613		
5317	SENDING INFORMATION AT A BAND EDGE WITHIN AN ORTHOGONAL FREQUENCY-DIVISION MULTIPLEXING (OFDM) SYMBOL	[redacted]	[redacted]	PCT	PAT-Active	CN	201480033322X	ZL201480033322X	104854806		
5318	SENDING INFORMATION AT A BAND EDGE WITHIN AN ORTHOGONAL FREQUENCY-DIVISION MULTI-PLEXING (OFDM) SYMBOL	[redacted]	[redacted]	EPT	APP-Pending	EP	14738093.5		2944042		
5319	SENDING INFORMATION AT A BAND EDGE WITHIN AN ORTHOGONAL FREQUENCY-DIVISION MULTIPLEXING (OFDM) SYMBOL	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-549871	6012685	2016-505674		
5320	HANDLING SIGNAL QUALITY MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	13/996699	9288698	US-2015-0146545-A1	Yes	
5321	HANDLING SIGNAL QUALITY MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/001013	10084079	US-2016-0135071-A1	Yes	
5322	HANDLING SIGNAL QUALITY MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	16/039956		US-2018-0324615-A1	Yes	
5325	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	NP	PAT-Active	US	13/673791	8743826	US-2013-0272352-A1	Yes	
5324	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	EPT	PAT-Active	AT	137978375	2856675	2856675	Yes	
5329	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCT	PAT-Active	AU	2013267841	8888888	2013267841	Yes	
5326	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200389	8888888	2016200389	Yes	
5327	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCT	APP-Pending	BR	112014027216-6		112014027216-6	Yes	
5328	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCD	APP-Pending	BR	122016008203-2		122016008203-2	Yes	
5329	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCD	APP-Pending	BR	122016008192-3		122016008192-3	Yes	
5330	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	CNT	PAT-Active	US	14/257709	9072088	US-2014-0241278-A1	Yes	
5331	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	CNT	PAT-Active	US	14/711441	9743387	US-2015-0257143-A1	Yes	
5332	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	CNT	PAT-Active	US	15/645162	10237855	US-2017-0311306-A1	Yes	
5333	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCT	PAT-Active	CA	2871105	2871105	2871105	Yes	
5334	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCT	PAT-Active	CN	201380027992X	ZL201380027992X	104272619	Yes	
5335	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCD	APP-Pending	CN	201710703856		107317663	Yes	
5336	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	EPD	APP-Pending	EP	18186655.5		3416525	Yes	
5337	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	EPT	PAT-Active	DE	137978375	88888888	2856675	Yes	
5338	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	EPT	PAT-Active	EE	137978375	2856675	2856675	Yes	
5339	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	EPT	PAT-Active	ES	137978375	2856675	2856675	Yes	
5340	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	EP	17155977.6	3182625	3182625	Yes	
5341	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	AT	17155977.6	3182625	3182625	Yes	
5342	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	BE	17155977.6	3182625	3182625	Yes	
5343	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	CH	17155977.6	3182625	3182625	Yes	
5344	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	DE	17155977.6	3182625	3182625	Yes	
5345	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	EE	17155977.6	3182625	3182625	Yes	
5346	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	ES	17155977.6	3182625	3182625	Yes	
5347	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	FR	17155977.6	3182625	3182625	Yes	
5348	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	GB	17155977.6	3182625	3182625	Yes	
5349	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	GR	17155977.6	3182625	3182625	Yes	
5350	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	HU	17155977.6	3182625	3182625	Yes	
5351	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	IE	17155977.6	3182625	3182625	Yes	
5352	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	NL	17155977.6	3182625	3182625	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5353	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	ETD	PAT-Active	SK	1715559776	3182625	3182625	Yes	
5354	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	ES	137978375	2856675	2856675	Yes	
5355	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	FR	137978375	2856675	2856675	Yes	
5356	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	GB	137978375	2856675	2856675	Yes	
5357	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	GR	137978375	2856675	2856675	Yes	
5358	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPR	PAT-Active	HK	1510059843	1205377	1205377	Yes	
5359	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	HU	137978375	2856675	2856675	Yes	
5360	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	APP-Pending	ID	PID201407570		2016/01757	Yes	
5361	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	APP-Pending	IN	7615/CHENP/2014		7615/CHENP/2014	Yes	
5362	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	PAT-Active	JP	2015-516517	5904568	2015-516125	Yes	
5363	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCD	PAT-Active	JP	2016-046318	6408801	2016-174358	Yes	
5364	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	PAT-Active	KR	10-2014-7030657	10-1643075	10-2015-0000497	Yes	
5365	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCD	PAT-Active	KR	10-2016-7019625	10-1713463	10-2016-0089543	Yes	
5366	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCD	PAT-Active	KR	10-2017-7007289	10-1822981	10-2017-0033908	Yes	
5367	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			DIV	PAT-Active	KR	10-2018-7002046	10-1942223	10-2018-0012871	Yes	
5368	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	PAT-Active	MX	MX/a/2014/012712	338759	MX/a/2014/012712	Yes	
5369	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCD	PAT-Active	MX	MX/a/2016/005188	352515	352515	Yes	
5370	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	APP-Pending	MY	PI2014703209		PI2014703209	Yes	
5371	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	NL	137978375	2856675	2856675	Yes	
5372	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCT	PAT-Active	RU	2014146035	2578673	0002578673	Yes	
5373	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			PCD	PAT-Active	RU	2016105593	2630428	0002630428	Yes	
5374	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			DIV	PAT-Active	RU	2017130378	2660473	0002660473	Yes	
5375	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH			EPT	PAT-Active	SK	137978375	2856675	2856675	Yes	
5376	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			NP	PAT-Active	US	13/681581	8988998	US-2013-0322238-A1	Yes	
5377	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			CNT	PAT-Active	US	14/583143	9883421	US-2015-0189549-A1	Yes	
5378	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			CNT	PAT-Active	US	15/886581	10397830	US-2018-0192326-A1	Yes	
5379	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			CNT	APP-Pending	US	16/515348			Yes	
5380	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			PCT	APP-Pending	CN	201380024459		104272811	Yes	
5381	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			EPT	APP-Pending	EP	137973657		2856806	Yes	
5382	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION			EPR	APP-Pending	HK	15105637		1205401	Yes	
5383	WIRELESS MULTIMEDIA QUALITY OF EXPERIENCE REPORTING			PCT	PAT-Active	CN	201380022870	ZL201380022870	104272791		
5384	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	PAT-Active	AU	2013286893	2013286893	2013286893	Yes	
5385	ECCE INDEXING FOR EPDCCH SEARCH SPACE DESIGN			PCT	APP-Pending	BR	112014030149-2		112014030149-2	Yes	
5386	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	APP-Pending	CA	2874902		2874902	Yes	
5387	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	PAT-Active	CN	201380029170	ZL201380029170	104509008	Yes	
5388	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCD	APP-Pending	CN	201710894120		107733571	Yes	
5389	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PPD	APP-Pending	HK	18110397		1251095	Yes	
5390	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			EPT	PAT-Active	EP	13813505	2868017	2868017	Yes	
5391	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			EPT	PAT-Active	DE	13813505	2868017	2868017	Yes	
5392	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			EPT	PAT-Active	FR	13813505	2868017	2868017	Yes	
5393	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			EPT	PAT-Active	GB	13813505	2868017	2868017	Yes	
5394	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			EPT	PAT-Active	NL	13813505	2868017	2868017	Yes	
5395	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	APP-Pending	ID	PID201407570		2016/01284	Yes	
5396	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	APP-Pending	IN	8529/CHENP/2014		8529/CHENP/2014	Yes	
5397	ECCE INDEXING FOR EPDCCH SEARCH SPACE DESIGN			PCT	PAT-Active	JP	2015-520626	5964513	2015-528238	Yes	
5398	ECCE INDEXING FOR EPDCCH SEARCH SPACE DESIGN			PCD	PAT-Active	JP	2016-129251	6273320	2016-197889	Yes	
5399	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCD	APP-Pending	KR	10-2016-7020737		10-2016-0093112	Yes	
5400	ECCE INDEXING FOR EPDCCH SEARCH SPACE DESIGN			PCT	PAT-Active	MX	MX/a/2014/014899	354765	MX/a/2014/014899	Yes	
5401	[redacted]										
5402	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	PAT-Active	RU	2014146597	2604875	2014146597	Yes	
5403	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCD	PAT-Active	RU	2016144333	2652093		Yes	
5404	WAKE-UP FUNCTIONALITY FOR AN LTE ENODEB			PCT	APP-Pending	CN	201380029100		104335643		
5405	WAKE-UP FUNCTIONALITY FOR AN LTE ENODEB			PCT	PAT-Active	JP	2015-515287	5961894	2015-518360		
5406	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS			NP	PAT-Active	US	13/753795	9198184	US-2014-0213310-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5407	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480003788X	ZL2014800 03788X	104904253		
5408	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	14745836S	2952032	2952032		
5409	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	14745836S	2952032	2952032		
5410	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	14745836S	2952032	2952032		
5411	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	14745836S	2952032	2952032		
5412	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	14745836S	88888888	2952032		
5413	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	14745836S	2952032	2952032		
5414	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	14745836S	2952032	2952032		
5415	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	14745836S	2952032	2952032		
5416	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	14745836S	2952032	2952032		
5417	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	14745836S	2952032	2952032		
5418	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	14745836S	2952032	2952032		
5419	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	14745836S	2952032	2952032		
5420	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	14745836S	2952032	2952032		
5421	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	14745836S	2952032	2952032		
5422	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION	[redacted]	[redacted]	NP	PAT-Active	US	13/728778	9225478	US-2014-0003240-A1		
5423	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380029123X	ZL2013800 291231	104350689		
5424	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION	[redacted]	[redacted]	EPT	APP-Pending	EP	13813506S		2868001		
5425	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
5426	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
5427	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7033502	10-1653257	10-2015-0013677		
5428	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7000848	10-1950673	10-2016-0013250		
5429	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	NP	PAT-Active	US	13/687442	9203563	US-2014-0003239-A1		
5430	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	CN	201380028882X	ZL2013800 288826	104541543		
5431	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	EP	13812809S	2868134	2868134		
5432	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	AT	13812809S	2868134	2868134		
5433	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	BE	13812809S	2868134	2868134		
5434	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	CH	13812809S	2868134	2868134		
5435	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	DE	13812809S	2868134	2868134		
5436	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	EE	13812809S	2868134	2868134		
5437	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	ES	13812809S	2868134	2868134		
5438	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	FR	13812809S	2868134	2868134		
5439	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	GB	13812809S	2868134	2868134		
5440	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	GR	13812809S	2868134	2868134		
5441	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	HU	13812809S	2868134	2868134		
5442	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	IE	13812809S	2868134	2868134		
5443	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	NL	13812809S	2868134	2868134		
5444	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	EPT	PAT-Active	SK	13812809S	2868134	2868134		
5445	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-517494	6102038	2015-523807		
5446	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7033763	10-1824990	10-2015-0010671		
5447	MECHANISMS FOR ROAMING BETWEEN 3GPP OPERATORS AND WLAN SERVICE PROVIDERS	[redacted]	[redacted]	NP	PAT-Active	US	13/665761	9817707	US-2014-0023059-A1	Yes	
5448	MECHANISMS FOR ROAMING BETWEEN 3GPP OPERATORS AND WLAN SERVICE PROVIDERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/334097	9113402	US-2014-0348043-A1	Yes	
5449	MECHANISMS FOR ROAMING BETWEEN 3GPP OPERATORS AND WLAN SERVICE PROVIDERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/794701	9402228	US-2015-0312747-A1	Yes	
5450	MECHANISMS FOR ROAMING BETWEEN 3GPP OPERATORS AND WLAN SERVICE PROVIDERS	[redacted]	[redacted]	CNT	PAT-Active	US	15/189959	9723547	US-2016-0302138-A1	Yes	
5451	MECHANISMS FOR ROAMING BETWEEN 3GPP OPERATORS AND WLAN SERVICE PROVIDERS	[redacted]	[redacted]	CNT	PAT-Active	US	15/633515	10117167	US-2017-0295540-A1	Yes	

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5452	SOUNDING REFERENCE SIGNAL (SRS) MECHANISM FOR INTRACELL DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380029109.1	ZL2013800291091	104335659		
5453	SOUNDING REFERENCE SIGNAL (SRS) MECHANISM FOR INTRACELL DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	13812581.0		2868142		
5454	SOUNDING REFERENCE SIGNAL (SRS) MECHANISM FOR INTRACELL DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	8532/CHENP/2014		8532/CHENP/2014		
5455	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	PCT	PAT-Active	CN	201380029098.7	ZL2013800290987	104335508		
5456	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	EP	13813734.8	2868004	2868004		
5457	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	AT	13813734.8	2868004	2868004		
5458	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	BE	13813734.8	2868004	2868004		
5459	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	CH	13813734.8	2868004	2868004		
5460	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	DE	13813734.8	2868004	2868004		
5461	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	EE	13813734.8	2868004	2868004		
5462	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	ES	13813734.8	2868004	2868004		
5463	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	FR	13813734.8	2868004	2868004		
5464	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	GB	13813734.8	2868004	2868004		
5465	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	GR	13813734.8	2868004	2868004		
5466	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	HU	13813734.8	2868004	2868004		
5467	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	IE	13813734.8	2868004	2868004		
5468	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	NL	13813734.8	2868004	2868004		
5469	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	EPT	PAT-Active	SK	13813734.8	2868004	2868004		
5470	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	PCT	PAT-Active	US	14/125253	9397795	US-2015-0049650-A1		
5471	TECHNIQUES FOR ROAMING BETWEEN HETEROGENEOUS WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/691215	9282456	US-2014-0153555-A1	Yes	
5472	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	PCT	APP-Closed	CN	201380029301.5		104335518		
5473	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/014568	342758	MX/a/2014/014568		
5474	SIMULTANEOUS TRANSMIT AND RECEIVE	[redacted]	[redacted]	PCT	PAT-Active	US	14/125256	9590772	US-2014-0301217-A1		
5475	SENSOR HIERARCHY	[redacted]	[redacted]	PCD	APP-Pending	CN	201610090292.8		106886596		
5476	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	13/710652	9807815	US-2014-0160951-A1		
5477	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380058784.7	ZL2013800587847	104813710		
5478	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	EPT	PAT-Active	EP	13862757.5	2932763	2932763		
5479	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	EPT	PAT-Active	DE	13862757.5	2932763	2932763		
5480	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	EPT	PAT-Active	FR	13862757.5	2932763	2932763		
5481	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	EPT	PAT-Active	GB	13862757.5	2932763	2932763		
5482	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS	[redacted]	[redacted]	EPT	PAT-Active	NL	13862757.5	2932763	2932763		
5483	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	CNT	APP-Pending	US	15/813182		US-2018-0167766-A1		
5484	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201380059567.X		104798418		
5485	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	PCD	APP-Pending	CN	201610900269.47		107071135		
5486	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	DIV	APP-Pending	US	16/257776		US-2019-0141471-A1		382
5487	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	13861845.9	2932771	2932771		
5488	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	PAT-Active	EP	16188468.9	3171648	3171648		
5489	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	APP-Pending	EP	19187587.1				
5490	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	PAT-Active	DE	16188468.9	3171648	3171648		
5491	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	13861845.9	2932771	2932771		
5492	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	PAT-Active	FR	16188468.9	3171648	3171648		
5493	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	PAT-Active	GB	16188468.9	3171648	3171648		
5494	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	ETD	APP-Pending	NL	16188468.9	3171648	3171648		
5495	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	13861845.9	2932771	2932771		
5496	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	13861845.9	2932771	2932771		
5497	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	13861845.9	2932771	2932771		
5498	COMMUNICATION DEVICE MOBILE TERMINAL METHOD FOR REQUESTING INFORMATION AND METHOD FOR PROVIDING INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/658840	8891396	US-2014-0113656-A1		
5499	COMMUNICATION DEVICE MOBILE TERMINAL AND METHODS FOR TRAFFIC HOTSPOT MEASUREMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201380049423.8	ZL2013800494238	104662948		
5500	Frequency-stabilized transceiver configuration	[redacted]	[redacted]	REI	PAT-Active	US	11/657375	RE41583			
5501	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH IN THE CDMA SYSTEM	[redacted]	[redacted]	EPT	PATR-Closed	EP	99938627	1097527	1097527		
5502	Forward Link Inter-Generation Soft Handoff Between 2G and 3G CDMA Systems	[redacted]	[redacted]	NP	PAT-Active	TW	88120910	447199			987
5503	Abtastsiliciumverfahren und Vorrichtung zur Durchführung des Verfahrens	[redacted]	[redacted]	EPT	PAT-Active	EP	99942701	1103104	1103104		
5504	METHOD AND ARRANGEMENT FOR MINIMIZING THE AUTOCORRELATION ERROR IN THE DEMODULATION OF A SPREAD-SPECTRUM SIGNAL SUBJECT TO MULTIPATH PROPAGATION	[redacted]	[redacted]	NP	PAT-Closed	US	09/395304	6532255	6532255		
5505	METHOD AND CIRCUIT FOR COMPENSATION CONTROL OF OFFSET VOLTAGES OF A RADIO RECEIVING CIRCUIT INTEGRATED IN A CIRCUIT MODULE	[redacted]	[redacted]	CIP	PAT-Active	US	09/680050	6476593	6476593		
5506	Differential amplifier	[redacted]	[redacted]	NP	PAT-Active	US	09/696524	6373332	6373332		
5507	Differenzverstärker	[redacted]	[redacted]	EPA	PAT-Active	EP	3139385	3067679	3067679		
5508	Differenzverstärker	[redacted]	[redacted]	EPA	PAT-Active	DE	3139385	########	3067679		
5509	METHOD FOR ESTIMATING THE CHANNEL IMPULSE RESPONSE OF A MOBILE RADIO CHANNEL	[redacted]	[redacted]	CNT	PAT-Active	US	10/047614	6765951	US-2002-0150073-A1		
5510	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	PAT-Active	EP	95431.74	1195016	1195016		
5511	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	PAT-Active	DE	9543174	########	1195016		
5512	Modulator-Demodulator	[redacted]	[redacted]	CNT	PAT-Active	US	10/078127	6486737	US-2002-0140514-A1		
5513	METHOD AND DEVICE FOR CHANNEL ENCODING IN AN INFORMATION TRANSFER SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	10/112270	6865708	US-2002-0131392-A1		
5514	DIGITAL FILTER COMBINATION	[redacted]	[redacted]	PCT	PAT-Active	US	10/110421	6950843	6950843		
5515	Power Control During Inter-Generation Soft Handoffs	[redacted]	[redacted]	NP	PAT-Active	US	09/473777	6584087	6584087		
5516	POWER CONTROL DURING INTER-GENERATION SOFT HANDOFFS	[redacted]	[redacted]	PCD	PAT-Active	CN	31540015.5	ZL0315400 15			
5517	POWER CONTROL DURING INTER-GENERATION SOFT HAND-OFFS	[redacted]	[redacted]	EPT	PAT-Active	EP	9302175	1188254	1188254		
5518	POWER CONTROL DURING INTER-GENERATION SOFT HAND-OFFS	[redacted]	[redacted]	EPT	PAT-Active	DE	9302175	########	1188254		
5519	POWER CONTROL DURING INTER-GENERATION SOFT HAND-OFFS	[redacted]	[redacted]	EPT	PAT-Active	FR	9302175	1188254	1188254		
5520	POWER CONTROL DURING INTER-GENERATION SOFT HAND-OFFS	[redacted]	[redacted]	EPT	PAT-Active	GB	9302175	1188254	1188254		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5521	POWER CONTROL DURING INTER-GENERATION SOFT HAND-OFFS	[redacted]	[redacted]	EPT	PAT-Active	IT	9302175	1188254	1188254		
5522	POWER CONTROL DURING INTER-GENERATION SOFT HANDOFFS	[redacted]	[redacted]	PCT	PAT-Active	CN	8087547	ZL0080875 47	1355965		
5523	POWER CONTROL DURING INTER-GENERATION SOFT HANDOFFS	[redacted]	[redacted]	PCT	PAT-Active	JP	2013-502245	3604663	2003-501939		
5524	Circuit forming MOS capacitance with low voltage dependence has drain and source terminals of anti-serial MOS transistors connected together and biased wrt bulk or gate to provide capacitance between bulk and gate terminals Translation from Thomson	[redacted]	[redacted]	IPA	PAT-Active	DE	199614873	19961487	19961487		
5525	Modulator circuit configuration	[redacted]	[redacted]	NP	PAT-Active	US	09/718895	6369666			
5526	Circuit configuration for the offset compensation of a signal	[redacted]	[redacted]	CNT	PAT-Active	US	10/174283	6944220	US-2002-0191720-A1		
5527	CIRCUIT CONFIGURATION FOR CONTROLLING NONLINEAR PATHS	[redacted]	[redacted]	NP	PAT-Active	US	09/809787	6515543	US-2001-0026190-A1		
5528	AMPLIFIER CIRCUIT WITH OFFSET COMPENSATION IN PARTICULAR FOR DIGITAL MODULATION DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	09/853471	6710645	US-2001-0048344-A1		
5529	Method and device for diversity transmission of coded information	[redacted]	[redacted]	CNT	PAT-Active	US	10/347540	7295625	US-2003-0135799-A1		
5530	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	EPT	PAT-Active	EP	19955640	1350325	1350325		
5531	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	EPT	PAT-Active	DE	19955640	########	1350325		
5532	ANALOG-TO-DIGITAL CONVERTER AND METHOD FOR CONVERTING AN ANALOG SIGNAL INTO A DIGITAL SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	10/433711	6812880	US-2004-0061636-A1		
5533	Determination of a differential offset in a radio device and radio device	[redacted]	[redacted]	CNT	PAT-Active	US	10/352831	6973295	US-2003-0134604-A1		
5534	Determining offset occurring in differential transmission signal section of radio device by commutatively connecting outputs to differential receiver signals sections Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	100368891	10036889			
5535	ANALOG-TO-DIGITAL CONVERTER WITH COMPLEMENTARY TRANSISTORS	[redacted]	[redacted]	NP	PAT-Active	US	09/943537	6580381	US-2002-0067298-A1		
5536	Telephone for connection to a public telephone network	[redacted]	[redacted]	CNT	PAT-Active	US	10/410961	6928159	US-2003-0179879-A1		
5537	DIGITAL/ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	10/002334	6559785	US-2002-0121996-A1		
5538	Trimming method and trimming device for a pll circuit for two-point modulation	[redacted]	[redacted]	CNT	PAT-Active	US	10/646175	6933798	US-2004-0036539-A1		
5539	Receiver circuit in particular for a mobile radio	[redacted]	[redacted]	CNT	PAT-Active	US	10/384996	7336717	US-2003-0156669-A1		
5540	METHOD AND DEVICE FOR TRANSMITTING AND IDENTIFYING A MODULATION TYPE IN DIGITAL COMMUNICATION SYSTEMS BY WAY OF A PHASE ROTATION FACTOR APPLIED TO A TRAINING SEQUENCE	[redacted]	[redacted]	CNT	PAT-Active	US	10/706779	7313204	US-2004-0096012-A1		
5541	CIRCUIT CONFIGURATION FOR PRODUCING EXPONENTIAL PREDISTORTION FOR A VARIABLE AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Active	US	10/639400	6788145	US-2004-0032298-A1		
5542	METHOD AND DEVICE FOR COMPENSATING A PHASE ERROR IN A RECEIVER AND/OR TRANSMITTER SYSTEM WITH AN I/O-INTERFACE	[redacted]	[redacted]	EPT	PAT-Active	EP	27508118	1410496	1410496		
5543	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	EPT	PAT-Active	DE	27508118	########	1410496		
5544	METHOD AND DEVICE FOR COMPENSATING A PHASE ERROR IN A RECEIVER AND/OR TRANSMITTER SYSTEM WITH AN I/O-INTERFACE	[redacted]	[redacted]	EPT	PAT-Active	FR	27508118	1410496	1410496		
5545	Method for compensating phase error in a receiver and/or transmitter system with an I/Q interface	[redacted]	[redacted]	PCT	PAT-Active	CN	28148789	ZL0281487 89	1535498		
5546	Demodulator and demodulation method for demodulating received signals	[redacted]	[redacted]	PCT	PAT-Active	US	10/485975	7317768	US-2005-0063490-A1		
5547	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	PAT-Active	EP	27350842	1410673	1410673		
5548	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	PAT-Active	DE	27350842	########	1410673		
5549	MOBILE STATION IN A MOBILE COMMUNICATION SYSTEM AND METHOD FOR ACCESSING A SERVICE AND/OR A DATA RECORD IN THE MOBILE STATIONS STANDBY MODE	[redacted]	[redacted]	PCT	PAT-Active	US	10/483561	7657287	US-2004-0248550-A1		
5550	Optimization of the operating point of power amplifiers in mobile stations	[redacted]	[redacted]	NP	PAT-Active	US	09/895595	7031677	US-2003-0003940-A1		
5551	Transmission Configuration in Particular for Mobile Radio Communication and Mobile Station with the Transmission Configuration	[redacted]	[redacted]	CNT	PAT-Active	US	10/705514	7308038	US-2004-0097250-A1		
5552	DEVICE AND METHOD FOR REGULATING THE OUTPUT POWER OF MOBILE	[redacted]	[redacted]	CNT	PAT-Active	US	10/715070	7418055	US-2004-0102207-A1		
5553	Interface for data transmission	[redacted]	[redacted]	CNT	PAT-Active	US	10/734441	7295619	US-2004-0141563-A1		
5554	TRANSMISSION ARRANGEMENT WITH POWER REGULATION	[redacted]	[redacted]	PCT	PAT-Active	US	10/482506	7277689	US-2004-0253936-A1		
5555	Transmitting arrangement for mobile radio	[redacted]	[redacted]	CNT	PAT-Active	US	10/797468	7409008	US-2004-0228421-A1		
5556	Transmission arrangement for transmitting data continuously in the time domain	[redacted]	[redacted]	CNT	PAT-Active	US	10/872815	7555272	US-2005-0032489-A1		
5557	DIGITAL/ANALOG CONVERTER CIRCUIT WITH A DEVICE FOR COMPENSATING NONLINEAR DISTORTIONS	[redacted]	[redacted]	CNT	PAT-Active	US	10/844022	6933872	US-2004-0222907-A1		
5558	Single Point Modulator Having a PLL Circuit	[redacted]	[redacted]	CNT	PAT-Active	US	10/917101	7453325	US-2005-0025276-A1		
5559	Single-point modulator for phase- or frequency-modulation has digital modulation signal supplied to programmable frequency divider via circuit branch containing sigma-delta modulator Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102056803	10205680	10205680		
5560	Ein-Punkt-Modulator mit PLL-Schaltung	[redacted]	[redacted]	PCT	PAT-Active	CN	38038021	ZL0380380 21	1633745		
5561	CLOCK CONTROL OF TRANSMISSION-SIGNAL PROCESSING DEVICES IN MOBILE RADIO TERMINAL DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	10/503647	8064559	US-2005-0201503-A1		
5562	Control system and method for operating a transceiver	[redacted]	[redacted]	CNT	PAT-Active	US	10/920150	8073439	US-2005-0085193-A1		
5563	Frequency conversion circuit arrangement and mobile radio comprising said circuit arrangement	[redacted]	[redacted]	CNT	PAT-Active	US	10/940114	7030667	US-2005-0107063-A1		
5564	Method and device for controlling combined UMTS/GSM/EDGE radio systems	[redacted]	[redacted]	CNT	PAT-Active	US	11/423911	7515932	US-2006-0217139-A1		
5565	Verfahren und Vorrichtung zum Steuern von kombinierten UMTS/GSM/EDGE-Funksystemen	[redacted]	[redacted]	EPT	PAT-Active	EP	37558947	1510092	1510092		
5566	Verfahren und Vorrichtung zum Steuern von kombinierten UMTS/GSM/EDGE-Funksystemen	[redacted]	[redacted]	EPT	PAT-Active	DE	37558947	########	1510092		
5567	Method and Device for Controlling Combined UMTS/GSM/EDGE Radio Systems	[redacted]	[redacted]	PCT	PAT-Active	CN	38129000	ZL0381290 00	1659912		
5568	Mobile radio receiver device	[redacted]	[redacted]	CNT	PAT-Active	US	11/020747	7356324	US-2005-0170805-A1		
5569	Transmitting and receiving arrangement with a channel-oriented link	[redacted]	[redacted]	CNT	PAT-Active	US	12/687021	8189694	US-2010-0165868-A1		
5570	Transmitting and receiving arrangement has at least one channel-oriented link with at least one channel for sequential data transfer between base band and high frequency processing devices Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102214247	10221424	10221424		
5571	Transmitting and receiving arrangement with a channel-oriented link	[redacted]	[redacted]	PCT	PAT-Active	US	10/514332	7711056	US-2006-0239362-A1		
5572	METHOD AND DEVICE FOR CARRYING OUT A PLURALITY OF CORRELATION PROCEDURES IN A MOBILE TELEPHONY ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	11/075848	7522655	US-2005-0207479-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5573	Execution method for several correlation procedures in mobile radio system with read out of sample values from sample value data memory independent of executed correlation procedure Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102416931	10241693	10241693		
5574	Verstärkerschaltung	[redacted]	[redacted]	EPT	PAT-Active	EP	37636032	1520341	1520341		
5575	Verstärkerschaltung	[redacted]	[redacted]	EPT	PAT-Active	DE	37636032	########	1520341		
5576	Amplifier Circuit	[redacted]	[redacted]	PCT	PAT-Active	CN	38162474	ZL0381624 74	1666411		
5577	Method and device for passing parameters to a rake receiver	[redacted]	[redacted]	CNT	PAT-Active	US	11/045651	7675963	US-2005-0207478-A1		
5578	CIRCUIT ARRANGEMENT WITH RADIO-FREQUENCY MIXER AND RECEIVER ARRANGEMENT WITH THE CIRCUIT ARRANGEMENT	[redacted]	[redacted]	DIV	PAT-Active	US	12/852445	8521118	US-2010-0323649-A1		
5579	Reception arrangement with preamplifier circuit	[redacted]	[redacted]	CNT	PAT-Active	US	11/065533	7643814	US-2005-0197087-A1		
5580	Vorverstärkerschaltung und Empfangsanordnung mit der Vorverstärkerschaltung	[redacted]	[redacted]	EPT	PAT-Active	EP	37478112	1532733	1532733		
5581	Vorverstärkerschaltung und Empfangsanordnung mit der Vorverstärkerschaltung	[redacted]	[redacted]	EPT	PAT-Active	DE	37478112	########	1532733		
5582	Transmission arrangement particularly for mobile radio	[redacted]	[redacted]	CNT	PAT-Active	US	11/046510	7415077	US-2005-0190856-A1		
5583	Methods and Apparatuses for Detecting the TX Diversity Mode for Mobile Radio Receivers	[redacted]	[redacted]	CNT	PAT-Active	US	11/119483	7542726	US-2005-0260950-A1		
5584	Estimation of asymmetries between inphase and quadrature branches in multicarrier transmission systems	[redacted]	[redacted]	CNT	PAT-Active	US	11/075208	7529306	US-2005-0180518-A1		
5585	Method and Device for Correcting Signal Distortions in an Amplifier Device	[redacted]	[redacted]	PCT	PAT-Active	CN	2003801041422	ZL2003801 041422	1717863		
5586	Correction of signal distortions in amplifier unit operates pulse width modulator using variable frequency system clock Translation from Thomson	[redacted]	[redacted]	PCT	PAT-Active	DE	103934871	10393487	10393487		
5587	Method and device for correcting signal distortions in an amplifier device	[redacted]	[redacted]	PCT	PAT-Active	US	10/536653	7355472	US-2007-0008031-A1		
5588	Integrated transceiver circuit with low interference production and sensitivity	[redacted]	[redacted]	NP	PAT-Active	US	10/822544	7398074	US-2004-0229574-A1		
5589	Integrated transceiver circuit eg for mobile radio applications has transmitter receiver and amplifier/damper unit connected between output of transmitter and input of receiver Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103176004	10317600	10317600		
5590	Method and apparatus for correlative estimation of a mobile radio channel	[redacted]	[redacted]	NP	PAT-Active	US	10/833579	7310395	US-2004-0218703-A1		
5591	Channel qualification for an adaptive frequency hopping method by means of bit or packet error rate measurement and simultaneous field strength measurement	[redacted]	[redacted]	NP	PAT-Active	US	10/832685	7529288	US-2004-0258137-A1		
5592	CHANNEL QUALIFICATION FOR AN ADAPTIVE FREQUENCY HOPPING METHOD BY MEANS OF BIT OR PACKET ERROR RATE MEASUREMENT AND SIMULTANEOUS FIELD STRENGTH MEASUREMENT	[redacted]	[redacted]	CNT	PAT-Active	US	12/416203	8537877	US-2009-0185601-A1		
5593	CIRCUIT ARRANGEMENT AND METHOD FOR REDUCING AN ALIGNMENT ERROR IN A SIGMA-DELTA MODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	10/869704	6927718	US-2005-0007472-A1		
5594	Generating random number sequence in radio station eg UMTS mobile station involves deriving random numbers from noise component of reception signal by converting to digital bit vector stream deriving numbers from least significant bit Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103372377	10337237	10337237		
5595	Phase regulating circuit for send receive devices has voltage controlled oscillator pump circuit two way switch phase detector circuit and circuit to produce a temperature dependent signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103358358	10335835	10335835		
5596	Method and device for calculating zero-crossing reference sequences for signal detection of angle-modulated signals based on zero crossings of the received signal	[redacted]	[redacted]	CNT	PAT-Active	US	11/373463	7564926	US-2006-0222107-A1		
5597	Determination and selection of transmission paths as a function of the operating situation for setting up rake fingers for rake receiver units in mobile communication terminals	[redacted]	[redacted]	NP	PAT-Active	US	10/957408	7508862	US-2005-0111526-A1		
5598	Method for prediction of a channel coefficient	[redacted]	[redacted]	NP	PAT-Active	US	10/974322	7577190	US-2005-0118955-A1		
5599	Method for converting an analog input signal and analog-to-digital converter	[redacted]	[redacted]	CNT	PAT-Active	US	11/352803	7280065	US-2006-0187104-A1		
5600	Verfahren zur Umsetzung eines analogen Eingangssignals und Analog-Digital-Wandler	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800296594	ZL2004800 296594	1868126		
5601	Method and apparatus for identification of transmission antenna diversity in a receiver	[redacted]	[redacted]	NP	PAT-Active	US	10/965341	8102957	US-2005-0123082-A1		
5602	Method and circuit arrangement for determining a charge consumed within a period in mobile devices	[redacted]	[redacted]	CNT	PAT-Active	US	11/371828	8068885	US-2006-0252467-A1		
5603	Calculation of the power consumption of a mobile device eg a mobile station of a mobile radio system whereby consumption is calculated by considering the periods of operation in different modes over a monitoring period Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103415491	10341549	10341549		
5604	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	EPT	PAT-Active	EP	47626791	1664813	1664813		
5605	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	EPT	PAT-Active	DE	47626791	########	1664813		
5606	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	PCT	PAT-Active	CN	200480032987X	ZL2004800 32987X	1879030		
5607	Devices with reciprocal wake-up function from the standby mode	[redacted]	[redacted]	NP	PAT-Active	US	10/925565	7409567	US-2005-0086550-A1		
5608	Signal conditioning circuit	[redacted]	[redacted]	NP	PAT-Active	US	10/947963	7433667	US-2005-0113056-A1		
5609	METHOD AND ARRANGEMENT FOR DETECTING A COLLISION IN A COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	10/868409	7434143	US-2005-0034011-A1		
5610	Method and apparatus for adapting threshold values in electronic signal processing devices	[redacted]	[redacted]	NP	PAT-Active	US	10/970905	7720648	US-2005-0117666-A1		
5611	Method and Apparatus for Adapting Threshold Values in Electronic Signal Processing Devices	[redacted]	[redacted]	NP	PAT-Active	CN	2004100877861	ZL2004100 877861	1612503		
5612	Threshold values adapting method for eg mobile radio station involves calculating common correction value and calculating difference threshold values based on correction value by scaling correction value with setting variables Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103502610	10350261	10350261		
5613	Apparatus for Production of Scrambling Codes and Preambles	[redacted]	[redacted]	NP	PAT-Active	US	11/014274	7489722	US-2005-0152265-A1		
5614	Vorrichtung zum Erzeugen von Verwürfelungscodes und Präambeln	[redacted]	[redacted]	NP	PAT-Active	CN	2004101019980	ZL2004101 019980	1630225		
5615	Scrambling code and preambles production apparatus for universal mobile telecommunication system has multipliers which scramble non-scrambled preambles using associated scrambling codes Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	103592687	10359268	10359268		
5616	Transmission/reception arrangement and method for reducing nonlinearities in output signals from a transmission/reception arrangement	[redacted]	[redacted]	NP	PAT-Active	US	11/049258	7539268	US-2006-0034356-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5617	EFFICIENT SOFTWARE DOWNLOAD TO CONFIGURABLE COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	11/675313	7870233	US-2007-0168477-A1		
5618	Efficient Software Download to Configurable Communication Device	[redacted]	[redacted]	DIV	PAT-Active	US	12/908613	8078703	US-2011-0035475-A1		
5619	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	DIV	PAT-Active	US	12/708847	8204161	US-2010-0184396-A1		
5620	CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	09/751782	6567017	US-2001-0048380-A1		
5621	GENERIC FINGER ARCHITECTURE FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	09/920094	6459883	US-2002-0018518-A1		
5622	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	DIV	PAT-Active	US	11/435010	7996684	US-2006-0206726-A1		
5623	APPARATUS AND METHOD FOR CONTROLLING A THREE-STATE BUS	[redacted]	[redacted]	NP	PAT-Active	US	09/565653	6686767			
5624	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	NP	PAT-Active	US	09/922406	6694496	US-2002-0016949-A1		
5625	Power amplifier arrangement having two or more antenna coupling respective amplifiers to a supply potential	[redacted]	[redacted]	NP	PAT-Active	US	11/029853	7548732	US-2005-0181751-A1		
5626	Interleaving Circuit for a Multiband OFDM Transceiver	[redacted]	[redacted]	NP	PAT-Active	US	10/987191	7376117	US-2005-0152327-A1		
5627	Device for transmitting data between memories	[redacted]	[redacted]	CNT	PAT-Active	US	11/460888	7631153	US-2007-0028030-A1		
5628	Measuring circuit for the output of a power amplifier and a power amplifier comprising the measuring circuit	[redacted]	[redacted]	CNT	PAT-Active	US	11/534938	7345538	US-2007-0109042-A1		
5629	Measuring circuit for eg high frequency-power amplifier has transistor whose output current is proportional to amplifier output current where transistor is controlled in parallel to other transistors driving amplifier output Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040147310	########	102004014731		
5630	Mess-Schaltung für den Ausgang eines Leistungsverstärkers sowie ein die Mess-Schaltung umfassender Leistungsverstärker	[redacted]	[redacted]	EPT	PAT-Active	EP	57387284	1728084	1728084		
5631	MESS-SCHALTUNG FÜR DEN AUSGANG EINES LEISTUNGSVERSTÄRKERS SOWIE EIN DIE MESS-SCHALTUNG UMFASSENDER LEISTUNGSVERSTÄRKER	[redacted]	[redacted]	EPT	PAT-Active	DE	57387284	########	1728084		
5632	Method and apparatus for adaptive activation or deactivation of the coordination of the radio activities of two mobile-radio transmitting and/or receiving devices	[redacted]	[redacted]	CNT	PAT-Active	US	11/532666	7697897	US-2007-0066227-A1		
5633	METHOD AND APPARATUS FOR ADAPTIVE ACTIVATION OR DEACTIVATION OF THE COORDINATION OF THE RADIO ACTIVITIES OF TWO MOBILE-RADIO TRANSMITTING AND/OR RECEIVING DEVICES	[redacted]	[redacted]	CNT	PAT-Active	US	12/582681	7945211	US-2010-0040121-A1		
5634	Verfahren und Vorrichtung zum adaptiven Aktivieren oder De-aktivieren der Koordination der Funk-Aktivitäten zweier Mo-bilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	EPT	PAT-Active	EP	57351793	1726129	1726129		
5635	Verfahren und Vorrichtung zum adaptiven Aktivieren oder De-aktivieren der Koordination der Funk-Aktivitäten zweier Mo-bilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	EPT	PAT-Active	DE	57351793	########	1726129		
5636	Method and Device for Adaptively Activate or Deactivate the Co-ordination of Radiocommunications Activities of Two Mobile Transmitting and/or Receiving	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800086054	ZL2005800086054	1938993		
5637	Computer system for electronic data processing	[redacted]	[redacted]	PCT	PAT-Active	US	10/592925	8145822	US-2009-0235047-A1		
5638	Phase locked loop and method for phase correction of a frequency controllable oscillator	[redacted]	[redacted]	NP	PAT-Active	US	11/086039	7391270	US-2006-0082417-A1		
5639	Phase-locked loop for use in mobile communication device has phase correction circuit for generating phase correction signal that is given to control circuit for generating frequency division characteristics for frequency divider circuit Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040142041	########	102004014204		
5640	Transmitting arrangement receiving arrangement transceiver and method for operation of a transmitting arrangement	[redacted]	[redacted]	NP	PAT-Active	US	11/139351	7502598	US-2005-0277399-A1		
5641	Device for processing radio transmission data with digital predistortion	[redacted]	[redacted]	NP	PAT-Active	US	11/112057	8155238	US-2005-0249309-A1		
5642	Transceiver with interference signal rejection and method for interference signal rejection	[redacted]	[redacted]	NP	PAT-Active	US	11/109514	7412217	US-2005-0245216-A1		
5643	Transceiver for mobile communication appliance has amplifier amplifying transmitted signal that includes signal component which is extracted before amplification to output level and routed to reception path Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040195870	########			
5644	TRANSCEIVER CIRCUIT AND METHOD FOR PROVIDING LOCAL OSCILLATOR SIGNALS IN A TRANSCEIVER CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	11/101946	7684763	US-2005-0239417-A1		
5645	Transceiver circuit for use in eg mobile radio telephone has transmission path with oscillator inputs coupled to frequency conversion device and programmable frequency divider circuit dividing frequency of output signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040175276	########	102004017527		
5646	DUAL CARRIER MODULATOR FOR A MULTIBAND OFDM UWB TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	US	11/040475	7512185	US-2005-0195765-A1		
5647	Dual Carrier Modulator for a Multiband OFDM Transceiver	[redacted]	[redacted]	PCT	PAT-Active	CN	200580014684X	ZL200580014684X	101366254		
5648	DUALTRAGERMODULATOR FIIR EINEN MEHRFACHBAND-OFDMSENDER/ EMPFANGER	[redacted]	[redacted]	PCT	APP-Pending	DE	1120050005518		112005000551		
5649	POWER REGULATION IN RADIO-FREQUENCY TRANSMITTERS	[redacted]	[redacted]	CIP	PAT-Active	US	11/594567	9648572	US-2007-0109863-A1		
5650	A FRACTIONAL DIVIDER SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	2005100809958	ZL2005100809958	1722029		
5651	CIRCUIT ARRANGEMENT RECEIVING DIFFERENT SUPPLY VOLTAGES	[redacted]	[redacted]	NP	PAT-Active	US	11/249810	7279943	US-2006-0082396-A1		
5652	Device and Method for Suppression of Disturbances Caused by Burst-Like Changes of the Data Rate During Synchronous Radio Transmission	[redacted]	[redacted]	NP	PAT-Active	CN	2005100791013	ZL2005100791013	1713620		
5653	Transmitting and receiving arrangement with interference signal suppression control	[redacted]	[redacted]	NP	PAT-Active	US	11/129990	7305216	US-2005-0266819-A1		
5654	Transceiver assembly for mobile radio system has control device provided with detector to detect interference signal present in reception path at downstream side of input point based on characteristics of transmitted signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040255768	########	102004025576		
5655	Amplifier arrangement having an adjustable gain and use thereof	[redacted]	[redacted]	NP	PAT-Active	US	11/240686	7397307	US-2006-0066399-A1		
5656	Radio receiver for the reception of data bursts which are modulated with two modulation types	[redacted]	[redacted]	NP	PAT-Active	US	11/261008	7567626	US-2006-0116091-A1		
5657	Polar modulator and method for determining an amplitude offset in a polar modulator	[redacted]	[redacted]	NP	PAT-Active	US	11/255439	7469130	US-2006-0089111-A1		
5658	Digital programming interface between a baseband processor and an integrated radio-frequency module	[redacted]	[redacted]	NP	PAT-Active	US	11/220453	7587533	US-2006-0059280-A1		
5659	Digitale Programmierschnittstelle zwischen einem Basisbandprozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	EPA	PAT-Active	EP	50163393	1635466	1635466		
5660	Digitale Programmierschnittstelle zwischen einem Basisbandprozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	EPA	PAT-Active	DE	50163393	########	1635466		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5661	RADIO TRANSMITTER WITH VARIABLE AMPLIFIER UNITS IN THE BASEBAND SECTION AND IN THE RADIO-FREQUENCY SECTION OF THE TRANSMISSION PATH	[redacted]	[redacted]	NP	PAT-Active	US	11/300244	7596185	US-2006-0159197-A1		
5662	Radio transmitter with adjustable amplifier units eg for baseband and high frequency ranges of transmission path has transmission path for processing of signals received from transmitter Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040599858	########	102004059985		
5663	EMBEDDED COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	11/432712	8365269	US-2007-0011727-A1		
5664	Voltage-controlled oscillator circuit with analogue and digital actuation	[redacted]	[redacted]	NP	PAT-Active	US	11/298010	7301411	US-2006-0152292-A1		
5665	METHOD FOR COMPUTER-BASED DETERMINATION OF A POSITION IN A MAP NAVIGATION DEVICE AND MOBILE RADIO TELEPHONE	[redacted]	[redacted]	NP	PAT-Active	US	11/536899	8712689	US-2007-0100542-A1		
5666	Position determining method for use in navigation device of eg mobile radio telephone involves storing digitalized image of map in storage and determining calibration additional information that enables image calibration in coordinates Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050467350	########	102005046735		
5667	Data processing device for telecommunication system has first processor and second processor that receive and process data input into data input unit to respectively control data input unit in first and second data input modes Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020040622035	########	102004062203		
5668	Method for automatically setting up and/or controlling a telecommunication conference	[redacted]	[redacted]	NP	PAT-Active	US	11/264679	8428634	US-2007-0097886-A1		
5669	METHOD FOR AUTOMATICALLY SETTING UP AND/OR CONTROLLING A TELECOMMUNICATION CONFERENCE	[redacted]	[redacted]	CNT	PAT-Active	US	13/869018	9571291	US-2013-0235767-A1		
5670	Method for predistortion of a signal and a transmitting device having digital predistortion in particular for mobile radio	[redacted]	[redacted]	NP	PAT-Active	US	11/389383	7577408	US-2006-0229036-A1		
5671	CONTROLLABLE AMPLIFIER AND ITS USE	[redacted]	[redacted]	NP	PAT-Active	US	11/360720	7501887	US-2006-0202752-A1		
5672	Steuerbarer Verstärker und dessen Verwendung	[redacted]	[redacted]	NP	PAT-Active	DE	1020050083722	########	102005008372		
5673	Fast starting circuit for crystal oscillators	[redacted]	[redacted]	NP	PAT-Active	US	11/329572	7554414	US-2006-0170509-A1		
5674	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/346997	8023491	US-2006-0194580-A1	Yes	
5675	Mobile radio communication system	[redacted]	[redacted]	CNT	PAT-Active	US	12/504902	8254906	US-2009-0275327-A1	Yes	
5676	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	13/211946	8432890	US-2011-0300864-A1	Yes	
5677	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	13/542689	8737995	US-2012-0289229-A1	Yes	
5678	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/860282	10419995	US-2018-0124668-A1	Yes	
5679	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	APP-Pending	US	16/523576			Yes	
5680	MOBILE RADIO COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/259113	9894577	US-2014-0321426-A1	Yes	
5681	Mobile radio-communication system eg global system for mobile communication has subscriber unit setting message with specification which describes radio characteristics of subscriber unit for transferring to switching layer unit Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050052541	########	102005005254	Yes	
5682	DIGITAL FILTER AND METHOD OF DETERMINING ITS COEFFICIENTS	[redacted]	[redacted]	NP	PAT-Active	US	11/410395	8775492	US-2006-0250287-A1		
5683	Digital filter for use in digital signal processing sets predetermined value for respective closed-loop controlled time-delay registor Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050188583	########	102005018858		
5684	METHOD AND APPARATUS FOR CONTROLLING A TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	11/301741	7725086	US-2006-0154626-A1		
5685	Transmission device for transmitting information has coordinate transformer for transforming base-band signal into amplitude signal and phase signal and ramp control unit for generating power control signal Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020050595391		102005059539		
5686	Digital phase locked loop for mobile communication device has sigma-delta modulator with data input to constantly supply data word which is formed such that modulator generates frequency adjusted word that change during time period Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050303560	########	102005030356		
5687	Method for processing measurement control messages involves examining if criterion for mobile radio cell for producing measuring report message is fulfilled after receipt of first measurement control message Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050206379	########	102005020637		
5688	Verfahren zum Verarbeiten von Messsteuerungsnachrichten und Mobilfunk-Kommunikationsendgerät	[redacted]	[redacted]	EPT	PAT-Active	EP	67531673	1878280	1878280		
5689	Method for processing measurement control messages involves examining if criterion for mobile radio cell for producing measuring report message is fulfilled after receipt of first measurement control message Translation from Thomson	[redacted]	[redacted]	EPT	PAT-Active	DE	67531673	########	1878280		
5690	Amplifier arrangement and method of signal amplification	[redacted]	[redacted]	NP	PAT-Active	US	11/482921	7453321	US-2007-0018729-A1		
5691	Amplifier arrangement polar transmitter having the amplifier arrangement and method for amplifying signals	[redacted]	[redacted]	NP	PAT-Active	US	11/490787	7570930	US-2007-0026823-A1		
5692	Transmitting arrangement transreceiver with a transmitting arrangement and method for signal processing	[redacted]	[redacted]	NP	PAT-Active	US	11/482559	7599669	US-2007-0021078-A1		
5693	COMPUTED-AIDED MAPPING OF SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGES	[redacted]	[redacted]	DIV	PAT-Active	US	13/102750	8380204	US-2011-0211552-A1	Yes	
5694	COMPUTER-AIDED MAPPING OF SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGES	[redacted]	[redacted]	CNT	PAT-Active	US	13/741703	8977271	US-2013-0128841-A1	Yes	
5695	COMPUTER-AIDED MAPPING OF SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGES	[redacted]	[redacted]	CNT	PAT-Active	US	14/622614	9730032	US-2015-0245279-A1	Yes	
5696	COMPUTER-AIDED MAPPING OF SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGES	[redacted]	[redacted]	CNT	PAT-Active	US	15/071754	10321277	US-2016-0198312-A1	Yes	
5697	COMPUTER-AIDED SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGE FORMING METHOD FOR EG CDMA2000 MOBILE RADIO COMMUNICATION SYSTEM INVOLVES USING SYSTEM INFORMATION DATA PACKETS FROM LOGICAL CHANNELS AND PRIORITIZATION INFORMATION TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020050412734	########	102005041273	Yes	
5698	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
5699	Creation de Messages de Protocole de Controle DAcces a un Support DInformation Systeme et Detection	[redacted]	[redacted]	NP	PAT-Active	FR	607579	2890271	2890271	Yes	
5700	Method and medium access control unit generating system information medium access control protocol messages	[redacted]	[redacted]	NP	PAT-Active	GB	6172423	2429882	2429882	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5701	Method for Transmitting System Information-Medium-Access-Control-Protocol Message Medium-Access-Control Unit and Computer Program Element	[redacted]	[redacted]	NP	PAT-Active	JP	2006-235663	4413900	2007-068186	Yes	
5702	Method for computer-aided configuration of system information-medium-access-control-protocol message method for computer-aided detection of system information from system information-medium-access-control-protocol message medium-access-control unit mobile radio communication device and computer program element	[redacted]	[redacted]	NP	PAT-Active	KR	10-2006-0083692	10-0810821	10-2007-0026206	Yes	
5703	TRANSCEIVER WITH CASCADED PHASE-LOCKED LOOPS	[redacted]	[redacted]	NP	PAT-Active	US	11/685288	8880005	US-2007-0275672-A1		
5704	FREQUENCY GENERATOR	[redacted]	[redacted]	CNT	PAT-Active	US	15/176706	9948450	US-2016-0285618-A1		
5705	TRANSCEIVER CIRCUIT ARRANGEMENT FOR TRANSMITTING INFORMATION IN EG MOBILE RADIO SYSTEM HAS TWO SIGNAL GENERATORS DESIGNED AS LOCKED LOOP CIRCUIT AND COUPLED TOGETHER TO SUPPLY RECEIVING FREQUENCY SIGNAL AS REFERENCE FREQUENCY SIGNAL TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020060116828	########	102006011682		
5706	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
5707	Transmission path and method for signal processing in a transmission path	[redacted]	[redacted]	NP	PAT-Active	US	11/581507	7693499	US-2007-0105511-A1		
5708	Transmission path for processing a signal eg for a mobile telephone amplifies an input signal to be processed into an output signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050501486	########	102005050148		
5709	Transmitting output stage with adjustable output power and process for amplifying a signal in a transmitting output stage	[redacted]	[redacted]	NP	PAT-Active	US	11/584319	7486133	US-2007-0096804-A1		
5710	Frequency tuning circuit use of the tuning circuit and method for frequency tuning	[redacted]	[redacted]	NP	PAT-Active	US	11/641330	7847642	US-2007-0222527-A1		
5711	Tuning circuit for adjusting signal frequency of eg quartz oscillator in transmitting or receiving device has sigma delta modulator coupled with control input at input side and coupled with control port of arrangement at output side Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020050609449	########	102005060944		
5712	Phase locked loop circuitry	[redacted]	[redacted]	NP	PAT-Active	US	11/699111	7787581	US-2007-0195917-A1		
5713	Integrated circuit arrangement a method for monitoring access requests to an integrated circuit arrangement component of an integrated circuit arrangement and a computer program product	[redacted]	[redacted]	EPA	PAT-Active	EP	61147328	1862908	1862908		
5714	Integrated circuit arrangement a method for monitoring access requests to an integrated circuit arrangement component of an integrated circuit arrangement and a computer program product	[redacted]	[redacted]	EPA	PAT-Active	DE	61147328	########	1862908		
5715	MIXER CIRCUIT AND RF TRANSMITTER USING SUCH MIXER CIRCUIT	[redacted]	[redacted]	CNT	PAT-Active	US	12/143613	8260218	US-2008-0254754-A1		
5716	MODULATION DEVICE FOR A TRANSMISSION PATH METHOD FOR SIGNAL PROCESSING IN A TRANSMISSION PATH AND TRANSMISSION PATH HAVING THE MODULATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	11/709004	8374279	US-2007-0206702-A1		
5717	CIRCUIT ARRANGEMENT AND METHOD FOR SETTING AN ANALOG OUTPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	11/831580	8116701	US-2008-0048781-A1		
5718	CIRCUIT ARRANGEMENT AND METHOD FOR SETTING AN ANALOG OUTPUT SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	13/369799	8494462	US-2012-0142289-A1		
5719	Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020060356632	########	102006035663		
5720	TRANSCEIVER ARRANGEMENT AND METHOD FOR PROCESSING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	11/705258	8254860	US-2007-0197170-A1		
5721	TRANSCEIVER ARRANGEMENT AND METHOD FOR PROCESSING A SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	13/549952	8843090	US-2012-0282867-A1		
5722	Transceiveranordnung und Verfahren zum Verarbeiten eines Signals	[redacted]	[redacted]	NP	PAT-Active	CN	2007100051179	ZL2007100 051179	101018376		
5723	Transceiver arrangement for mobile radio comprises receiver path with line and receiver amplifier another path is provided with another line and another receiver amplifier and with frequency transcriber Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020060062914	########	102006006291		
5724	APPARATUS AND METHOD FOR IDENTIFYING SIGNAL FRAMES AS AUDIO SIGNAL FRAMES	[redacted]	[redacted]	NP	PAT-Active	US	11/673133	8065137	US-2007-0192096-A1		
5725	Digitally controlled oscillator device and method for generating an oscillating signal with a digitally controlled phase locked loop	[redacted]	[redacted]	NP	PAT-Active	US	11/401393	7573347	US-2007-0222526-A1		
5726	Oscillator eg voltage-controlled oscillator circuit arrangement for eg mobile radio device has selection device arranged such that operation mode is selected based on signal to perform actual programming of oscillator frequency Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020060112857		102006011285		
5727	TRANSMITTER AND METHOD OF TRANSMITTING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	11/544319	7702032	US-2007-0237256-A1		
5728	Mobile radio systems eg global system for mobile communication system transmitter has demodulator receiving feedback signal and performing additive mixing to demodulate feedback signal Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020060167619		102006016761		
5729	Regulation of an Amplification Apparatus	[redacted]	[redacted]	NP	PAT-Active	US	11/479075	7456693	US-2008-0001674-A1		
5730	Regulation of an Amplification Apparatus	[redacted]	[redacted]	EPA	PAT-Active	EP	71113328	1876704	1876704		
5731	Regulation of an Amplification Apparatus	[redacted]	[redacted]	EPA	PAT-Active	DE	71113328	########	1876704		
5732	METHODS DATA PROCESSING DEVICE FOR TRANSMITTING DATA	[redacted]	[redacted]	DIV	PAT-Active	CN	2014100871144	ZL2014100 871144	103812738		
5733	Oscillator and method for generating an oscillator signal	[redacted]	[redacted]	NP	PAT-Active	US	11/474825	7423495	US-2008-0007366-A1		
5734	Distorted signal processing method for signal received over radio channel involves recovering estimated value on basis of measured signal monitoring vector of derived signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020060329821	########	102006032982		
5735	METHOD FOR RETRIEVING DATA MOBILE COMMUNICATION TERMINAL METHOD FOR PROVIDING DATA AND SERVER	[redacted]	[redacted]	NP	PAT-Active	CN	200710096684X	ZL2007100 96684X	101296430		
5736	DATA TRANSMISSION IN A TELECOMMUNICATION CONFERENCE	[redacted]	[redacted]	NP	PAT-Active	US	11/775888	8243694	US-2008-0013466-A1		
5737	Amplifier stage operational amplifier and method for amplifying a signal	[redacted]	[redacted]	NP	PAT-Active	US	11/501266	7443238	US-2008-0024218-A1		
5738	AMPLIFIER STAGE OPERATIONAL AMPLIFIER AND METHOD FOR AMPLIFYING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	200710136994X	ZL2007101 36994X	101114810		
5739	Amplifier stage for operational amplifier includes two signal paths that are provided with balancing currents to balance the difference between the scaling factors applied to the controlled current through the FETs Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020060345606	########	102006034560		
5740	Arrangement and method for determining a gradient factor for a digitally controlled oscillator and phase locked loop	[redacted]	[redacted]	NP	PAT-Active	US	11/840408	7573348	US-2008-0042753-A1		
5741	MESSAGE GENERATING ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	11/765849	8406228	US-2007-0293251-A1	Yes	
5742	MESSAGE GENERATING ARRANGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	13/776113	9001738	US-2013-0170436-A1	Yes	
5743	MESSAGE GENERATING ARRANGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/330173	9380629	US-2014-0334382-A1	Yes	
5744	MESSAGE GENERATING ARRANGEMENT	[redacted]	[redacted]	CNT	APP-Pending	US	15/171923		US-2017-0118790-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5745	MESSAGE GENERATING ARRANGEMENT FOR EG UNIVERSAL MOBILE TELECOMMUNICATION SYSTEM HAS UNIT FOR GENERATING MESSAGE AND PACKET-SWITCHED AND CIRCUIT-SWITCHED COMMUNICATION CONNECTIONS THAT ARE PROVIDED BETWEEN SUBSCRIBER UNITS TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	APP-Pending	DE	1020060283244		102006028324	Yes	
5746	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
5747	Generating a traffic encryption key	[redacted]	[redacted]	NP	PAT-Active	US	12/026225	8259936	US-2010-0027787-A1		
5748	Method for compensation for any phase and/or amplitude error in a receiver	[redacted]	[redacted]	NP	PAT-Active	US	11/773211	8218683	US-2008-0008269-A1		
5749	DIVERSITY RECEIVER WITH CHANNEL ESTIMATOR	[redacted]	[redacted]	NP	PAT-Active	US	11/510318	7925230	US-2008-0051046-A1		
5750	DIVERSITY RECEIVER AND METHOD PERFORMED BY A DIVERSITY RECEIVER	[redacted]	[redacted]	CNT	PAT-Active	US	13/078174	8385866	US-2011-0195682-A1		
5751	DIVERSITY RECEIVER AND METHOD PERFORMED BY A DIVERSITY RECEIVER	[redacted]	[redacted]	CNT	PAT-Active	US	13/747944	8811924	US-2013-0182801-A1		
5752	DIVERSITY RECEIVER BASED ON DOPPLER FREQUENCY SHIFT VALUE	[redacted]	[redacted]	DIV	PAT-Active	US	13/076112	8498594	US-2012-0076242-A1		
5753	Diversity receiver for use in radio frequency transmission system has controller coupled to channel estimator and to one of receiver circuits and activating and deactivating receiver circuit depending on channel estimation value Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020070403870	########	102007040387		
5754	METHOD AND DEVICE FOR GENERATING AND TRANSMITTING SYSTEM INFORMATION IN A MOBILE RADIO CELL	[redacted]	[redacted]	PCT	PAT-Active	IN	986/KOLNP/2009	268946	986/KOLNP/2009	Yes	
5755	Agrupamiento de informaciones de acceso a la celda de unidades terminales integrantes en un bloque de informacíon de una informacíon de sistema	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2009/003018	285315	MX/a/2009/003018	Yes	
5756	GROUPING OF USER TERMINAL CELL ACCESS INFORMATION IN A SYSTEM INFORMATION BLOCK	[redacted]	[redacted]	PCT	PAT-Active	US	12/441920	9226194	US-2009-0318142-A1	Yes	
5757	GROUPING OF USER TERMINAL CELL ACCESS INFORMATION IN A SYSTEM INFORMATION BLOCK	[redacted]	[redacted]	CNT	PAT-Active	US	14/942751	9974002	US-2016-0127979-A1	Yes	
5758	GROUPING OF USER TERMINAL CELL ACCESS INFORMATION IN A SYSTEM INFORMATION BLOCK	[redacted]	[redacted]	CNT	PAT-Active	US	15/948696	10356694	US-2018-0227831-A1	Yes	
5759	AMPLIFIER ARRANGEMENT WITH CONTROLLABLE GAIN AND METHOD FOR CONTROLLING AN AMPLIFIER GAIN	[redacted]	[redacted]	NP	PAT-Active	US	11/528254	7446605	US-2008-0074184-A1		
5760	Amplifier arrangement for mobile communication system has control device with control output coupled to control inputs of amplifier devices to provide control signal as function of desired gain factor and effective gain factor Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020060474260	########			
5761	PHASE LOCKED LOOP TRANSCEIVER DEVICE AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	REI	PAT-Active	US	13/440521	RE44879	RE044879		
5762	Phase/frequency detector phase locked loop method for phase/frequency detection and method for generating an oscillator signal	[redacted]	[redacted]	NP	PAT-Active	US	11/925539	7592874	US-2008-0100386-A1		
5763	METHOD FOR THE TRANSMISSION OF DATA FIELD OF TECHNOLOGY	[redacted]	[redacted]	CNT	PAT-Active	US	13/273256	8493909	US-2012-0026921-A1	Yes	
5764	METHOD FOR THE TRANSMISSION OF DATA FIELD OF TECHNOLOGY	[redacted]	[redacted]	CNT	PAT-Active	US	13/713005	9743388	US-2013-0142145-A1	Yes	
5765	METHOD FOR THE TRANSMISSION OF DATA FIELD OF TECHNOLOGY	[redacted]	[redacted]	CNT	PAT-Active	US	15/453558	10009791	US-2017-0181029-A1	Yes	
5766	Method for transmitting data and corresponding devices	[redacted]	[redacted]	PCD	PAT-Active	CN	2007101290497	ZL2007101290497	101094432	Yes	
5767	VERFAHREN UND SYSTEM ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	DIV	PAT-Active	CN	2011103629986	ZL2011103629986	102438274	Yes	
5768	Data transmission method for transferring data from a sender to a receiver uses in-band signaling for data on a media access control layered surface to relate to a base station (Thomson)	[redacted]	[redacted]	NP	PAT-Active	DE	103452206	10345220	10345220	Yes	
5769	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	EP	47666417	1668934	1668934	Yes	
5770	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	AT	47666417	1668934	1668934	Yes	
5771	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	BE	47666417	1668934	1668934	Yes	
5772	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	CH	47666417	1668934	1668934	Yes	
5773	METHOD FOR THE TRANSMISSION OF DATA	[redacted]	[redacted]	ETD	APP-Pending	EP	161918214		3142410	Yes	
5774	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	DE	47666417	1668934	1668934	Yes	
5775	METHOD FOR THE TRANSMISSION OF DATA	[redacted]	[redacted]	FPD	APP-Pending	HK	171032375		1241184	Yes	
5776	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	EE	47666417	1668934	1668934	Yes	
5777	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	ES	47666417	1668934	1668934	Yes	
5778	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	FR	47666417	1668934	1668934	Yes	
5779	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	GB	47666417	1668934	1668934	Yes	
5780	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	GR	47666417	1668934	1668934	Yes	
5781	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	HU	47666417	1668934	1668934	Yes	
5782	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	IE	47666417	1668934	1668934	Yes	
5783	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	NL	47666417	1668934	1668934	Yes	
5784	VERFAHREN ZUR ÜBERTRAGUNG VON DATEN	[redacted]	[redacted]	EPT	PAT-Active	SK	47666417	1668934	1668934	Yes	
5785	Verfahren zur Übertragung von Daten	[redacted]	[redacted]	PCT	PAT-Active	CN	2004800283289	ZL2004800283289	1860808	Yes	
5786	Method for the Transmission of Data	[redacted]	[redacted]	PCT	PAT-Active	US	10/595245	8040833	US-2007-0014274-A1	Yes	
5787	METHOD FOR THE TRANSMISSION OF DATA FIELD OF TECHNOLOGY	[redacted]	[redacted]	CNT	APP-Pending	US	15/984155		US-2018-0270701-A1	Yes	
5788	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Active	US	11/876484	7557653	US-2008-0186092-A1		
5789	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	CNT	PAT-Active	US	12/358256	7688136	US-2009-0128233-A1		
5790	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	EPA	PAT-Active	EP	70208277	1921745	1921745		
5791	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	EPA	PAT-Active	DE	70208277	########	1921745		
5792	COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	11/857291	8095078	US-2008-0070504-A1		
5793	Communication terminal for providing certificate has application installed to verify digital signature to execute with successful verification of request and to provide answer message for requesting communication device Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020070165384		102007016538		
5794	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	87358982	########	2132676		
5795	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	87358982	2132676	2132676		
5796	A COMMUNICATION TERMINAL DEVICE FOR PROVIDING A RESPONSE MESSAGE FOR A REQUESTING COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	PAT-Active	IN	3456/KOLNP/2009	289217	3456/KOLNP/2009		
5797	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2010-501532	5543328	2010-532106		
5798	Data transfer in a computing device	[redacted]	[redacted]	NP	PAT-Active	US	11/780604	8077644	US-2009-0022077-A1		
5799	LOOP FILTER AND PHASE-LOCKED LOOP	[redacted]	[redacted]	NP	PAT-Active	US	11/704544	8674754	US-2008-0191759-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5800	Loop filter for use in phase locked loop has configuration having non-integrating transfer characteristic in operation and another configuration having integrating signal transfer characteristic in operation Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080050903	########	102008005090		
5801	DETECTION ARRANGEMENT COUNTER UNIT PHASE LOCKED LOOP DETECTION METHOD AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	11/705924	7804925	US-2008-0191921-A1		
5802	Detection arrangement for use in phase locked loop has signal processing unit determining phase deviation word as function of data words where one of data words depends on duration of clock period of reference clock signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080069868	########	102008006986		
5803	POLAR MODULATOR WITH SIGNED AMPLITUDE REDUCING PHASE TRANSITIONS	[redacted]	[redacted]	DIV	PAT-Active	US	13/085501	8180302	US-2011-0182373-A1		
5804	Amplifier transmitter arrangement having an amplifier and method for amplifying a signal	[redacted]	[redacted]	NP	PAT-Active	US	11/698404	7538609	US-2008-0180168-A1		
5805	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
5806	CIRCUIT AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	11/743964	7848715	US-2008-0274703-A1		
5807	CIRCUIT AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	US	12/954872	8406705	US-2011-0068835-A1		
5808	Circuit eg transceiver circuit has switch-mode direct current to direct current converter that is coupled with frequency converter and is controlled by signal from frequency converter Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080164232	########	102008016423		
5809	INTERFERENCE SUPPRESSION PROCESSING UNIT AND A METHOD OF SUPPRESSING INTERFERENCE IN WIRELESS DATA COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/099844	8553755	US-2011-0206171-A1		
5810	Interference suppression processing unit for use in wireless data communication has signal paths transmitting one of respective signal data sequences where prefilter unit is provided in each one of signal paths Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080242322	########	102008024232		
5811	REGULATION OF AN AMPLIFICATION APPARATUS	[redacted]	[redacted]	NP	PAT-Active	US	11/595279	9407227	US-2008-0113635-A1		
5812	Amplifier module for use in transmitter has power detector for determining power signal input for receiving signal and switch designed such that switch guides power signal or signal alternatively to signal output based on control signal Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020070511568		102007051156		
5813	INTEGRATED CIRCUIT MEMORY DEVICE METHOD OF OPERATING AN INTEGRATED CIRCUIT AND METHOD OF DESIGNING AN INTEGRATED CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	11/683357	8892806	US-2008-0219037-A1		
5814	CIRCUIT ARRANGEMENT WITH INTERFERENCE PROTECTION	[redacted]	[redacted]	CNT	PAT-Active	US	12/778109	9673913	US-2010-0219882-A1		
5815	GENERATION OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	12/136078	10015037	US-2008-0317167-A1		
5816	Method for generating transmission signal in code division multiple access (CDMA) communication system involves noise-shaping primary signal based on power information signal to form secondary signal having noise component Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020070280663	########			
5817	DISTANCE MEASUREMENT IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	11/696934	7639182	US-2008-0246651-A1		
5818	Radio communication arrangement for determining distance of radio communication device has distance measurement managing circuit that receives and processes distance measurement values measured by set of transceiver Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080166189	########	102008016618		
5819	RADIO COMMUNICATION DEVICE AND METHOD FOR BOOTING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	11/964338	9674176	US-2009-0170473-A1		
5820	RADIO COMMUNICATION DEVICE AND METHOD FOR BOOTING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	15/161577	9753740	US-2016-0266909-A1		
5821	Radio communication device ie mobile radio phone for mobile application has control circuit controlling processor such that operating system code is loaded from memory during execution of authentication procedure code Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080588504	########	102008058850		
5822	MULTIBAND RF DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	14/526604	9374056	US-2015-0119115-A1		
5823	CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	NP	PAT-Active	US	11/731398	7983627	US-2008-0242235-A1		
5824	CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	CNT	PAT-Active	US	13/607063	8718578	US-2013-0002370-A1		
5825	CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	DIV	PAT-Active	US	13/165942	8265571	US-2011-0248792-A1		
5826	RADIO CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	EPA	PAT-Active	EP	81532269	1976134	1976134		
5827	RADIO CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	EPA	PAT-Active	DE	81532269	1976134	1976134		
5828	RADIO CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	EPA	PAT-Active	FR	81532269	1976134	1976134		
5829	RADIO CIRCUIT ARRANGEMENT WITH IMPROVED DECOUPLING	[redacted]	[redacted]	EPA	PAT-Active	GB	81532269	1976134	1976134		
5830	MULTI-MODE AMPLIFIER ARRANGEMENT AND METHOD FOR CONTROLLING AN AMPLIFIER ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	11/751946	7605657	US-2008-0290943-A1		
5831	Saturation Handling	[redacted]	[redacted]	NP	PAT-Active	US	11/768172	7551034	US-2008-0315956-A1		
5832	POWER AMPLIFIERS OUTPUT MONITORING SYSTEM FOR USE IN MOBILE DEVICE IE MOBILE PHONE HAS SATURATION HANDLER MONITORING SIGNAL OUTPUT AND CONTROL SIGNAL AND PREVENTING CONTROL SIGNAL FROM PLACING POWER AMPLIFIER INTO SATURATION CONDITION TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020080291439	########	102008029143		
5833	TRANSMISSION UNIT AND A METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	NP	PAT-Active	US	12/014641	9385804	US-2009-0180462-A1		
5834	POLAR MODULATOR ARRANGEMENT AND POLAR MODULATION METHOD	[redacted]	[redacted]	NP	PAT-Active	US	11/766855	7545232	US-2008-0317169-A1		
5835	POLAR MODULATOR ARRANGEMENT AND POLAR MODULATION METHOD	[redacted]	[redacted]	NP	PAT-Active	DE	1020080287504	########	102008028750		
5836	CONFIGURABLE TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	US	12/051789	8279913	US-2009-0238249-A1		
5837	CIRCUIT ARRANGEMENT FOR PROCESSING A RADIO-FREQUENCY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	12/239315	9496907	US-2009-0088109-A1		
5838	MULTI-MODE MODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	11/766558	7853212	US-2008-0318620-A1		
5839	Compensation of nonlinearity of single ended digital to analog converters	[redacted]	[redacted]	NP	PAT-Active	US	11/941811	7489261			
5840	Compensation of nonlinearity of single ended digital to analog converters	[redacted]	[redacted]	CNT	PAT-Active	US	12/358254	7675442	US-2009-0128383-A1		
5841	Compensation of nonlinearity of single ended digital to analog converters	[redacted]	[redacted]	CNT	PAT-Active	US	12/705705	7944381	US-2010-0141327-A1		
5842	COMPENSATION OF NONLINEARITY OF SINGLE ENDED DIGITAL TO ANALOG CONVERTERS	[redacted]	[redacted]	NP	PAT-Active	CN	2008101776279	ZL2008101 776279	101436863		
5843	Digital-to-analog converter output regulating system has capacitance circuit coupled with output terminal and gate terminal to compensate for capacitance feedback between gate terminal and source terminal when switch is activated Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080572829	########	102008057282		
5844	COMPENSATION OF NONLINEARITY OF SINGLE ENDED DIGITAL TO ANALOG CONVERTERS	[redacted]	[redacted]	CIP	PAT-Active	US	13/103917	8653995	US-2011-0285453-A1		
5845	REUSE OF DIGITAL INTERFACE FOR MULTIPLE COMPONENTS	[redacted]	[redacted]	NP	PAT-Active	US	11/845449	8958507	US-2009-0060011-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5846	Power amplifier regulating method for eg mobile radio system involves setting bias value of subsequent timeslot to bias value of previous timeslot and setting bias value on basis of prescribed output power of power amplifier Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	102007046340		102007046340		
5847	Communication device and method for setting device resources	[redacted]	[redacted]	NP	PAT-Active	US	11/859974	8135444	US-2009-0075509-A1		
5848	METHOD FOR SETTING DATA TRANSMISSION PARAMETERS AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/945417	8190091	US-2009-0137295-A1		
5849	METHOD FOR SETTING DATA TRANSMISSION PARAMETERS AND COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	13/466546	8588700	US-2012-0221719-A1		
5850	Polar Modulation without Analog Filtering	[redacted]	[redacted]	NP	PAT-Active	US	11/855783	7619487	US-2008-0072921-A1		
5851	Setting an Output Level of an Amplifier Apparatus	[redacted]	[redacted]	NP	PAT-Active	US	12/554534	8193858	US-2010-0079209-A1		
5852	Amplifier apparatus output level setting method for electronic communication system involves increasing output level to level using control signal when detecting output level using detectors and maintaining control signal to be constant Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	102008049665		102008049665		
5853	Amplitude Attenuation Estimation and Recovery Systems for OFDM Signal used in Communication Systems	[redacted]	[redacted]	NP	PAT-Active	US	11/865383	7920462	US-2009-0086618-A1		
5854	AMPLITUDE ATTENUATION ESTIMATION AND RECOVERY SYSTEMS FOR OFDM SIGNALS	[redacted]	[redacted]	EPA	APP-Pending	EP	08133630		2048845		
5855	HIGH BANDWIDTH MODULATION AND TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	12/281082	8254493	US-2010-0080319-A1		
5856	HIGH BANDWIDTH MODULATION AND TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	13/570220	8565338	US-2012-0300878-A1		
5857	COMMUNICATION DEVICE PERFORMING MEASUREMENTS USING ASSIGNED TIME SLOTS	[redacted]	[redacted]	NP	PAT-Active	US	13/835192	9271174	US-2009-0042559-A1	Yes	
5858	SYSTEMS AND METHODS FOR PERFORMING MEASUREMENTS IN TRANSMISSION GAPS	[redacted]	[redacted]	CNT	PAT-Active	US	14/702222	9603043	US-2015-0245237-A1	Yes	
5859	SYSTEMS AND METHODS FOR PERFORMING MEASUREMENTS IN TRANSMISSION GAPS	[redacted]	[redacted]	CNT	PAT-Active	US	15/428482	10200896	US-2017-0156074-A1	Yes	
5860	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	PCD	PAT-Active	CN	201310014607.6	ZL2013100146074	103002503	Yes	
5861	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	PAT-Active	IN	206/KOLNP/2010	284618	206/KOLNP/2010	Yes	
5862	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2010-7002606	10-1222352	10-2010-0030670	Yes	
5863	P-channel drain extended metal oxide semiconductor transistor driving system for DC to DC converter in eg cell phone has comparator monitoring voltage characteristic of transistor to control gate voltage at gate of transistor Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102008061258	########	102008061258		
5864	DETERMINING A RECEIVING QUALITY IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/836444	8532605	US-2013-0252532-A1		
5865	DETERMINING A RECEIVING QUALITY IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	13/963500	9380470	US-2013-0322284-A1		
5866	Time interval measuring apparatus for eg digital phase-locked loop has circuit portion coupled to another circuit portion for outputting signal representing length of time that starts and stops corresponding to trigger event signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102008046831	########	102008046831		
5867	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
5868	Systems and Methods for Self-Calibrating Transceivers	[redacted]	[redacted]	NP	PAT-Active	US	11/847630	8126452	US-2009-0143015-A1		
5869	Data transfer descriptor portions storing and reading method involves storing two portions of data transfer descriptor in cached address space and uncached address space respectively Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	102008055892		102008055892		
5870	DIGITAL FILTER	[redacted]	[redacted]	NP	PAT-Active	US	12/201465	8271568	US-2010-0057821-A1		
5871	DIGITAL FILTER	[redacted]	[redacted]	CNT	PAT-Active	US	13/591516	9130983	US-2012-0331026-A1		
5872	DIGITAL FILTER	[redacted]	[redacted]	CNT	PAT-Active	US	14/925895	10009013	US-2016-0049923-A1		
5873	Digital filter for digital circuit has stage including input for receiving indication of time-offset between clock pulses of two clocks and another stage including output for outputting filtered output data Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102009039428	########	102009039428		
5874	APPARATUS AND METHOD USING FIRST AND SECOND CLOCKS	[redacted]	[redacted]	NP	PAT-Active	US	12/201505	8510589	US-2010-0058103-A1		
5875	APPARATUS AND METHOD USING FIRST AND SECOND CLOCKS	[redacted]	[redacted]	CNT	PAT-Active	US	13/924526	9201447	US-2014-0006839-A1		
5876	APPARATUS AND METHOD USING FIRST AND SECOND CLOCKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/925887	9921605	US-2016-0048154-A1		
5877	Digital device for receiving input data word ie binary bit string representing fraction has output for providing signal that represents time offset between gating pulses of clock pulses Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	102009039430	########	102009039430		
5878	RADIO COMMUNICATION DEVICE AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	13/876234	8548482	US-2009-0104913-A1		
5879	RADIO COMMUNICATION DEVICE AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	CNT	PAT-Active	US	14/013206	9408185	US-2014-0023017-A1		
5880	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	NP	PAT-Active	CN	200810171143.3	ZL2008101711433	101420789		
5881	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	PAT-Active	DE	83665721	########	2053909		
5882	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	PAT-Active	EP	83665721	2053909	2053909		
5883	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPD	PAT-Active	EP	14163713.2	2755441	2755441		
5884	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPD	PAT-Active	DE	14163713.2	2755441	2755441		
5885	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPD	PAT-Active	FR	14163713.2	2755441	2755441		
5886	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPD	PAT-Active	GB	14163713.2	2755441	2755441		
5887	FREQUENCY SYNTHESIS USING UPCONVERSION PLL PROCESSES	[redacted]	[redacted]	NP	PAT-Active	US	12/022857	8428212	US-2008-0190708-A1		
5888	Highly optimized digital IQ transmitter chain	[redacted]	[redacted]	NP	PAT-Active	US	12/044814	8213542	US-2008-0225968-A1		
5889	HIGHLY OPTIMIZED DIGITAL IQ TRANSMITTER CHAIN	[redacted]	[redacted]	CNT	PAT-Active	US	13/535827	8642777	US-2012-0263260-A1		
5890	IQ TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	EP	91544262	2101407	2101407		
5891	IQ TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	DE	91544262	2101407	2101407		
5892	IQ TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	FR	91544262	2101407	2101407		
5893	IQ TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	GB	91544262	2101407	2101407		
5894	MULTIMODE RECEIVER WITH ACTIVE BLOCKER SUPPRESSION	[redacted]	[redacted]	NP	PAT-Active	US	12/114264	8086205	US-2008-0275304-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5895	MULTIMODE RECEIVER WITH ACTIVE BLOCKER SUPPRESSION	[redacted]	[redacted]	CNT	PAT-Active	US	13/325234	8676143	US-2012-0083236-A1		
5896	EMPFANGEN UND VERARBEITEN VON DATEN	[redacted]	[redacted]	DIV	PAT-Active	DE	1020090617434	########			
5897	Retransmission of erroneous data	[redacted]	[redacted]	NP	PAT-Active	US	12/018932	8082478	US-2009-0193311-A1		
5898	WIRELESS COMMUNICATION DEVICE ANTENNA WITH TUNING ELEMENTS	[redacted]	[redacted]	NP	PAT-Active	US	12/475379	8405568	US-2010-0302123-A1		
5899	Wireless communication device eg mobile telephone has narrowband antenna having one or more tuning elements to match impedance of transmitting and receiving amplifiers with impedance of narrowband antenna Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020100292656		102010029265		
5900	VARIABLE-SIZE MIXER FOR HIGH GAIN RANGE TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	12/416604	8422588	US-2010-0254490-A1		
5901	VARIABLE-SIZE MIXER FOR HIGH GAIN RANGE TRANSMITTER	[redacted]	[redacted]	CNT	PAT-Active	US	13/829820	9059661	US-2013-0200925-A1		
5902	VARIABLE-SIZE MIXER FOR HIGH GAIN RANGE TRANSMITTER	[redacted]	[redacted]	CNT	PAT-Active	US	13/829975	9184699	US-2013-0203366-A1		
5903	Modulator component of transmitter used in communication device has sub-mixer components that modulate analog base band signal and frequency signal to generate modulated signals Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020100032530		102010003253		
5904	METHODS FOR CALIBRATING A TRANSMITTER AND RADIO TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	12/339155	8219047	US-2009-0163155-A1		
5905	Methods for calibrating a transmitter and radio transmitter	[redacted]	[redacted]	CNT	PAT-Active	US	13/543959	9231714	US-2012-0276862-A1		
5906	VERFAHREN ZUM KALIBRIEREN EINES SENDERS UND FUNKSENDER	[redacted]	[redacted]	NP	PAT-Active	DE	1020070614537	########	102007061453		
5907	Reference frequency controlling method for multi-modal wireless device in multi-modal wireless system involves shifting reference frequency from value to another value and operating wireless device using frequency at latter value Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090065660	########	102009006566		
5908	Transmitter/receiver diversity providing method for wireless communication system involves switching transmission of modulated communication signal to non-transmitting antenna when incoming signals of antenna include better quality Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090342419	########	102009034241		
5909	HIGH-FREQUENCY PRESTAGE AND RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	12/563607	8660512	US-2010-0081407-A1		
5910	Filter layer for use in receiver has switch with input coupled to antenna connection and also has two outputs where filter is coupled to former output and another filter is coupled to latter output Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080496685	########	102008049668		
5911	Closed loop power control system for use in base station and mobile station has controller receiving error signal from comparator and generating actuator signal to control gain of amplifier based on error signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090223215	########	102009022321		
5912	CONTINUOUS OPEN LOOP CONTROL TO CLOSED LOOP CONTROL TRANSITION	[redacted]	[redacted]	NP	PAT-Active	US	12/170207	8792579	US-2010-0008410-A1		
5913	TRANSMISSION CIRCUIT FOR USE IN COMMUNICATION DEVICE IE CELL PHONE HAS CONTROLLER GENERATING CORRECTION TO PREVENT STEP ERRORS WHEN COMMUNICATION DEVICE IS TRANSITIONED FROM OPEN LOOP MODE CONTROL TO CLOSED LOOP MODE CONTROL TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020090310916	########	102009031091		
5914	RADIO FREQUENCY COMMUNICATION DEVICES AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	12/116576	8175554	US-2009-0280755-A1		
5915	ADAPTATION TECHNIQUES IN MIMO	[redacted]	[redacted]	NP	PAT-Active	US	12/186368	8855257	US-2009-0202014-A1		
5916	ADAPTATION TECHNIQUES IN MIMO	[redacted]	[redacted]	CNT	PAT-Active	US	14/470006	9154201	US-2015-0092895-A1		
5917	Multiple input multiple output feed back realization method for universal mobile telecommunications system involves selecting modulation and coding scheme according to calculated signal to interference and noise ratio and receiver type Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090082433	########	102009008243		
5918	TRANSMITTER WITH HYBRID CLOSED LOOP POWER CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	12/233360	8315581	US-2010-0069026-A1		
5919	TRANSMITTER WITH HYBRID CLOSED LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	13/644823	8699976	US-2013-0029616-A1		
5920	Transmitter in mobile communication device eg cell phone has variable gain amplifier (VGA) that controls output power of radio frequency-modulated signal by adjusting coarse gain of VGA in accordance with hybrid power control loop Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020090294228		102009029422		
5921	DIVERSITY RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	12/052527	8351488	US-2009-0238246-A1		
5922	Device and Method for Generating an Output Signal	[redacted]	[redacted]	NP	PAT-Active	US	12/431520	8098096	US-2009-0273400-A1		
5923	CQI TABLE FOR WIRELESS MIMO NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	12/249739	8144797	US-2009-0245408-A1		
5924	CQI TABLE FOR WIRELESS MIMO NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/428784	8611453	US-2012-0182899-A1		
5925	Wireless device has circuitry calculating average signal-to-noise ratio from received reference signal and another circuitry mapping calculated average signal-to-noise ratio to signal-to-noise ratio of channel quality indicator table Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090147853	########	102009014785		
5926	PARTITIONED BLUETOOTH SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/192160	9195628	US-2010-0041336-A1		
5927	Circuit with single-ended input and differential output	[redacted]	[redacted]	NP	PAT-Active	US	12/174857	7777575	US-2010-0013562-A1		
5928	Integrated circuit for use in eg TV has inverting stage and non-inverting stage provided with transistors where bias current of inverting stage is greater than bias current of non-inverting stage Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090334149	########	102009033414		
5929	Jumpless Phase Modulation In A Polar Modulation Environment	[redacted]	[redacted]	NP	PAT-Active	US	12/233318	7872545	US-2010-0067617-A1		
5930	JUMPLESS PHASE MODULATION IN A POLAR MODULATION ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	12/972513	8502615	US-2011-0084777-A1		
5931	Phase modulation circuit for use in polar modulation system has inverter that is configured to selectively invert phase modulated earner signal in accordance with zero crossing signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090294252	########	102009029425		
5932	RADIO FREQUENCY COMMUNICATION DEVICES AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	12/200132	8565814	US-2010-0056204-A1		
5933	CHANNEL ESTIMATOR	[redacted]	[redacted]	NP	PAT-Active	US	12/170149	8428538	US-2010-0009649-A1		
5934	Radio receiver eg multi-carrier radio receiver for use in eg orthogonal frequency division multiplexing radio communications system has channel estimator providing channel parameters based on control signal received from control unit Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020090309594	########	102009030959		
5935	VERFAHREN ZUR ERMITTLUNG AKTIVER KOMMUNIKATIONSSITZUNGEN UND KOMMUNIKATIONSSITZUNGS-INFORMATIONSSERVER	[redacted]	[redacted]	PCT	APP-Pending	IN	67/KOLNP/2011		67/KOLNP/2011		
5936	METHOD FOR DETERMINING ACTIVE COMMUNICATION SESSIONS AND COMMUNICATION SESSION INFORMATION SERVER	[redacted]	[redacted]	CNT	PAT-Active	US	14/253761	9686327	US-2014-0244758-A1		
5937	Decoder of Error Correction Codes	[redacted]	[redacted]	NP	PAT-Active	US	12/199414	8190977	US-2010-0058149-A1		
5938	METHODS FOR CONTROLLING AN UPLINK SIGNAL TRANSMISSION POWER AND COMMUNICATION DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	12/210571	8311053	US-2010-0067496-A1		
5939	METHOD AND COMMUNICATION DEVICES FOR CONTROLLING AN UPLINK SIGNAL TRANSMISSION POWER	[redacted]	[redacted]	PCT	PAT-Active	CN	2009801358548	ZL2009801 358548	102150460		
5940	VERF AHREN ZUM STEUERN EINER UPLINK-SIGNALUBERTRAGUNGS- ENERGIE UND KOMMUNIKATIONSEINRICHTUNGEN	[redacted]	[redacted]	PCT	PAT-Active	DE	1120090022286	########	112009002228		
5941	Method for Determining the Type of a Mobile Radio Base Station; Radio Communication Terminal and Network Devices; Radio Communication Smart Card Device	[redacted]	[redacted]	NP	PAT-Active	US	12/233119	8160590	US-2010-0069119-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5942	METHOD FOR DETERMINNG THE TYPE OF A MOBILE RADIO BASE STATION; RADIO COMMUNICATION TERMINAL AND NETWORK DEVICES; RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	13/419136	8989748	US-2012-0172032-A1	Yes	
5943	METHODS AND APPARATUSES FOR DETERMINING CELL ACCESS DURING A CELL SEARCH	[redacted]	[redacted]	CNT	PAT-Active	US	14/615124	9681288	US-2015-0156621-A1	Yes	
5944	METHODS AND APPARATUSES FOR DETERMINING CELL ACCESS DURING A CELL SEARCH	[redacted]	[redacted]	CNT	APP-Pending	US	15/585358		US-2017-0237514-A1	Yes	
5945	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION; RADIO COMMUNICATION TERMINAL AND NETWORK DEVICES; RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	FPD	APP-Pending	HK	151111953		1210564	Yes	
5946	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION RADIO COMMUNICATION TERMINAL AND NETWORK DEVICES RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	PCT	PAT-Active	CN	200980136653X	ZL200980136653X	102160426	Yes	
5947	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION RADIO COMMUNICATION TERMINAL AND NETWORK DEVICES RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	PCD	PAT-Active	CN	2015100870911	ZL201510087 0911	104796961	Yes	
5948	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION; RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	PCT	PAT-Active	IN	1128/KOLNP/2011	300938	1128/KOLNP/2011	Yes	
5949	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION; RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	PCD	APP-Pending	IN	201738039933		201738039933	Yes	
5950	METHOD FOR DETERMINING THE TYPE OF A MOBILE RADIO BASE STATION; RADIO COMMUNICATION SMART CARD DEVICE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2011-7006375	10-1172216	10-2011-0069016	Yes	
5951	IQ-MODULATION	[redacted]	[redacted]	NP	PAT-Active	US	12/397093	7999629	US-2010-0225409-A1		
5952	In-phase/quadrature modulator for use in wireless device has first modulator component combining output signals of second modular component and third modular component to generate output signal of modulator Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020100023515		102010002351		
5953	METHOD AND DEVICE FOR TRANSFERRING DATA	[redacted]	[redacted]	NP	PAT-Active	US	12/353029	8363767	US-2010-0177808-A1		
5954	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/179717	9788308	US-2014-0161077-A1	Yes	
5955	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/729206		US-2018-0255533-A1	Yes	
5956	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	CN	2010101381750	ZL201010138 1750	101820682	Yes	
5957	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	CN	201410144344X	ZL201410144344X	103874215	Yes	
5958	Method of transmitting data in wireless communication system involves transmitting control channel data conveying information related to data transmitted within different frequency bands over specific control channel Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100002879	########	102010000287	Yes	
5959	Real time video stream transmitting method involves connecting two or more image lines of video stream to data block and transmitting data block where data block is received and separated in respective two or more image lines Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020080592706	########	102008059270		
5960	FILTERING USING IMPEDANCE TRANSLATOR	[redacted]	[redacted]	NP	PAT-Active	US	12/419873	8180310	US-2010-0255791-A1		
5961	FILTERING USING IMPEDANCE TRANSLATOR	[redacted]	[redacted]	CNT	PAT-Active	US	13/451399	8644785	US-2012-0201175-A1		
5962	TRANSCEIVER FOR MOBILE COMMUNICATION DEVICES EG CELLULAR PHONE HAS RECEIVER HAVING LOW NOISE AMPLIFIER(LNA) AND ANTENNA IN COMMUNICATION WITH RECEIVER TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	PAT-Active	DE	1020100036609	########	102010003660		
5963	Fast phase alignment function performing system has clock and data recovery component to receive selected phase signal and perform clock and data recovery function on incoming signal using selected phase signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100175293	########	102010017529		
5964	Converting system for use in global positioning system receiver to convert analog input signal into digital output signal has unit for reducing bit resolution of intermediate signal to another bit resolution lower than former resolution Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020090320482		102009032048		
5965	METHODS OF PREPARING A POWER SAVING STATE UNIVERSAL SERIAL BUS DEVICE AND UNIVERSAL SERIAL BUS HOST	[redacted]	[redacted]	NP	PAT-Active	US	12/565797	8332676	US-2011-0072284-A1		
5966	Method for preparing power saving state to eg universal serial bus device involves sending request from universal serial bus device to universal serial bus host that is connected to universal serial bus device via universal serial bus Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020100372498		102010037249		
5967	APPARATUS AND METHOD FOR MAPPING PHYSICAL CONTROL CHANNELS	[redacted]	[redacted]	NP	PAT-Active	US	12/501588	8583128	US-2011-0007695-A1		
5968	APPARATUS AND METHOD FOR MAPPING PHYSICAL CONTROL CHANNELS	[redacted]	[redacted]	NP	PAT-Active	CN	201010229764X	ZL201010229764X	101959307		
5969	APPARATUS AND METHOD FOR IMAGING OF PHYSICAL CONTROL CHANNELS	[redacted]	[redacted]	NP	PAT-Active	DE	1020100363626	########	102010036362		
5970	APPARATUS AND METHOD FOR MAPPING PHYSICAL CONTROL CHANNELS	[redacted]	[redacted]	NP	PAT-Active	IN	690/KOL/2010	292309	690/KOL/2010		
5971	PERMANENT DEDICATED RANDOM ACCESS PREAMBLES FOR FEMTOCELL	[redacted]	[redacted]	NP	PAT-Active	CN	2010102182449	ZL201010218 2449	101938810		
5972	PERMANENT DEDIZIERTE VIELFACHZUGRIFFSPRAAMBELN FIIR EINE FEMTOZELLE	[redacted]	[redacted]	NP	PAT-Active	DE	1020100176184	########	102010017618		
5973	Minimizing Mutual Coupling	[redacted]	[redacted]	NP	PAT-Active	US	12/475352	8170510	US-2010-0304688-A1		
5974	MINIMIZING MUTUAL COUPLING	[redacted]	[redacted]	CNT	PAT-Active	US	13/425084	8521107	US-2012-0178388-A1		
5975	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	NP	PAT-Active	CN	2010105417272	ZL201010541 7272	102056244		
5976	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	DIV	PAT-Active	CN	2013102032430	ZL201310203 2430	103228051		
5977	PHASE-LOCK IN ALL-DIGITAL PHASE-LOCKED LOOPS	[redacted]	[redacted]	CNT	PAT-Active	US	13/770083	9214947	US-2013-0162355-A1		
5978	COMPENSATION OF PHASE LOCK LOOP (PLL) PHASE DISTRIBUTION CAUSED BY POWER AMPLIFIER RAMPING	[redacted]	[redacted]	NP	PAT-Active	US	12/483708	8058917	US-2010-0315140-A1		
5979	Digital type II phase lock loop system for compensation of phase disturbances has phase lock loop that includes integrator unit to generate control signal and control signal alters output signal which is locked to reference signal Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100299774	########	102010029977		
5980	TIME-TO-DIGITAL CONVERTER WITH BUILT-IN SELF TEST	[redacted]	[redacted]	NP	PAT-Active	US	12/684771	8072361	US-2011-0169673-A1		
5981	TIME-TO-DIGITAL CONVERTER WITH BUILT-IN SELF TEST	[redacted]	[redacted]	CNT	PAT-Active	US	13/287788	8754793	US-2012-0044102-A1		
5982	ZEIT/DIGITAL-WANDLER MIT EINGEBAUTEM SELBSTTEST	[redacted]	[redacted]	NP	PAT-Active	DE	1020100639052	########	102010063905		
5983	Digital to Analog Converter Comprising Mixer	[redacted]	[redacted]	NP	PAT-Active	US	12/578301	8111182	US-2011-0085616-A1		
5984	Digital to analog converter for eg wireless transmitter has coupling circuit which selectively couples local oscillator signal to mixers of cells based on signal at digital signal input Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100423394	########	102010042339		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
5985	PREDISTORTION OF AMPLIFIER INPUT SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	12/846416	8577311	US-2011-0025414-A1		
5986	Electronic apparatus for communication device has predistortion component which is configured to perform predistortion on signal operative on device using static characteristic Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100384828	########	102010038482		
5987	Method for Transmitting a Data Signal in a MIMO System	[redacted]	[redacted]	CNT	PAT-Active	US	13/767068	8885753	US-2013-0163691-A1	Yes	
5988	METHOD FOR TRANSMITTING A DATA SIGNAL IN A MIMO SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/515726	9397739	US-2015-0071377-A1	Yes	
5989	VERFAHREN ZUM SENDEN EINES DATENSIGNALS IN EINEM MIMO-SYSTEM	[redacted]	[redacted]	NP	PAT-Active	DE	1020110509496	########	102011050949	Yes	
5990	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			Yes	
5991	DEVICE AND METHOD FOR SELECTING A PATH FROM AN ESTIMATED DELAY PROFILE OF A RADIO SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2011100380308	ZL2011100 380308	102163991		
5992	Vorrichtung und Verfahren zur Auswahl eines Weges aus einem geschätzten Verzögerungsprofil eines Funksignals	[redacted]	[redacted]	NP	APP-Pending	DE	1020110006869		102011000686		
5993	Oscillator with capacitance array	[redacted]	[redacted]	NP	PAT-Active	US	12/642800	8154356	US-2011-0148530-A1		
5994	APPARATUS AND METHOD FOR ANTENNA DIVERSITY RECEPTION	[redacted]	[redacted]	NP	PAT-Active	CN	2011100825481	ZL2011100 825481	102163999		
5995	Device for providing baseband signal for utilizing reception antenna diversity in mobile communication system has combiner adding signals to obtain baseband representation of combined signals at output of combiner as baseband signal Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020110042598		102011004259		
5996	OSCILLATOR WITH CONTROLLABLE FREQUENCY	[redacted]	[redacted]	NP	PAT-Active	US	12/721730	9413365	US-2011-0221539-A1		
5997	OSZILLATOR MIT STEUERBARER FREQUENZ	[redacted]	[redacted]	NP	APP-Pending	DE	1020110010688		102011001068		
5998	TEMPERATURE COMPENSATION FOR AN OSCILLATOR CRYSTAL	[redacted]	[redacted]	NP	PAT-Active	US	12/697285	9344095	US-2011-0187422-A1		
5999	TEMPERATURKOMPENSATION FÜR EINEN OSZILLATORKRISTALL	[redacted]	[redacted]	NP	APP-Pending	DE	1020110097996		102011009799		
6000	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6001	On-Chip Self Calibrating Delay Monitoring Circuitry	[redacted]	[redacted]	NP	PAT-Active	US	12/696731	8228106	US-2011-0187433-A1		
6002	ON-CHIP SELF CALIBRATING DELAY MONITORING CIRCUITRY	[redacted]	[redacted]	NP	PAT-Active	CN	2011100310038	ZL2011100 310038	102142831		
6003	ON-CHIP SELF CALIBRATING DELAY MONITORING CIRCUITRY	[redacted]	[redacted]	DIV	PAT-Active	CN	2016101459254	ZL2016101 459254	105811934		
6004	ON-CHIP SELF CALIBRATING DELAY MONITORING CIRCUITRY	[redacted]	[redacted]	DIV	PAT-Active	US	13/535440	8451043	US-2012-0262213-A1		
6005	Selbstkalibrierende On-Chip-Verzögerungsüberwachungsschaltung	[redacted]	[redacted]	NP	APP-Pending	DE	1020110098003		102011009800		
6006	A SYSTEM METHOD ELECTRONIC DEVICE FOR DIRECT FM/PM MODULATION	[redacted]	[redacted]	NP	PAT-Active	CN	2011101326368	ZL2011101 326368	102325108		
6007	FM/PM-DIREKTMODULATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020110070001		102011007000		
6008	RADIO COMMUNICATION DEVICES INFORMATION PROVIDERS METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE AND METHODS FOR CONTROLLING AN INFORMATION PROVIDER	[redacted]	[redacted]	NP	PAT-Active	US	12/845800	8521109	US-2012-0028638-A1		
6009	RADIO COMMUNICATION DEVICES INFORMATION PROVIDERS METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE AND METHODS FOR CONTROLLING AN INFORMATION PROVIDER	[redacted]	[redacted]	CNT	PAT-Active	US	14/841471	9622120	US-2015-0373592-A1		
6010	RADIO COMMUNICATION DEVICES INFORMATION PROVIDERS AND METHODS FOR CONTROLLING THE SAME	[redacted]	[redacted]	NP	PAT-Active	CN	201110215018X	ZL2011102 15018X	102348194		
6011	FUNKKOMMUNIKATIONSVORRICHTUNGEN INFORMATIONSANBIETER VERFAHREN ZUM STEUERN EINER FUNKKOMMUNIKATIONSVORRICHTUNG UND VERFAHREN ZUM STEUERN EINES INFORMATIONSANBIETERS	[redacted]	[redacted]	NP	PAT-Active	DE	1020110522484	########	102011052248		
6012	SUPPRESSION OF LOW-FREQUENCY NOISE FROM PHASE DETECTOR IN PHASE CONTROL LOOP	[redacted]	[redacted]	NP	PAT-Active	US	12/758393	8330509	US-2011-0248753-A1		
6013	SUPPRESSION OF LOW FREQUENCY NOISE FROM PHASE DETECTOR IN PHASE CONTROL LOOP	[redacted]	[redacted]	NP	PAT-Active	CN	2011101376776	ZL2011101 376776	102291126		
6014	UNTERDRÜCKUNG VON NIEDERFREQUENTEM RAUSCHEN VON EINEM PHASENDETEKTOR IN EINER PHASENSTEUERSCHLEIFE	[redacted]	[redacted]	NP	PAT-Active	DE	1020110072268	########	102011007226		
6015	APPARATUS AND METHOD FOR ANTENNA DIVERSITY RECEPTION	[redacted]	[redacted]	NP	PAT-Active	CN	2011100431668	ZL2011100 431668	102163998		
6016	Device for providing baseband signal for exploiting received antenna diversity in mobile telephone has combiner for selecting signals where selected signals are interlaced such that stream of samples is obtained for exploiting diversity Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020110042571	########	102011004257		
6017	SATELLITE-BASED POSITION DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	US	12/869726	8988282	US-2012-0050102-A1		
6018	SATELLITE-BASED POSITION DETERMINATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/639179	9933524	US-2015-0276933-A1		
6019	SATELLITE-BASED POSITION DETERMINATION	[redacted]	[redacted]	PCD	APP-Pending	CN	2016100425829		105676237		
6020	SATELITENBASIERTE POSITIONSBESTIMMUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020110529500		102011052950		
6021	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6022	METHOD AND APPARATUS FOR REQUESTING MEDIA REPLICATION IN A COLLABORATIVE COMMUNICATION SESSION AND METHOD AND APPARATUS FOR ASSIGNING A COMMUNICATION MEDIUM FOR A COLLABORATIVE COMMUNICATION SESSION	[redacted]	[redacted]	NP	PAT-Active	US	13/117213	8832189	US-2011-0295954-A1	Yes	
6023	METHOD AND APPARATUS FOR REQUESTING MEDIA REPLICATION IN A COLLABORATIVE COMMUNICATION SESSION AND METHOD AND APPARATUS FOR ASSIGNING A COMMUNICATION MEDIUM FOR A COLLABORATIVE COMMUNICATION SESSION	[redacted]	[redacted]	CNT	PAT-Active	US	14/451258	9225779	US-2014-0344368-A1	Yes	
6024	METHOD AND APPARATUS FOR REQUESTING MEDIA REPLICATION IN A COLLABORATIVE COMMUNICATION SESSION AND METHOD AND APPARATUS FOR ASSIGNING A COMMUNICATION MEDIUM FOR A COLLABORATIVE COMMUNICATION SESSION	[redacted]	[redacted]	CNT	PAT-Active	US	14/462423	9178941	US-2014-0359020-A1	Yes	
6025	METHOD AND APPARATUS FOR REQUESTING MEDIA REPLICATION IN A COLLABORATIVE COMMUNICATION SESSION AND METHOD AND APPARATUS FOR ASSIGNING A COMMUNICATION MEDIUM FOR A COLLABORATIVE COMMUNICATION SESSION	[redacted]	[redacted]	CNT	PAT-Active	US	14/942437	9531806	US-2016-0072884-A1	Yes	
6026	Method for requesting media replication in collaborative communication session in internet protocol multimedia subsystem-based communication system involves indicating terminal in message as recipient of communication medium Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100217700	########	102010021770	Yes	
6027	Communication terminal for transmitting and receiving data between communication networks eg global system for mobile communication networks has controller controlling receiver such that parts of two different periods do not overlap Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020100178063	########	102010017806		
6028	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2013-0073503	10-1331431	10-2013-0088094		
6029	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	NP	PAT-Active	US	13/178528	9198228	US-2012-0008721-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6030	USER EQUIPMENT AND METHOD FOR PERFORMING DOWNLINK AND/OR UPLINK POWER CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	12/967180	8538472	US-2012-0149424-A1		
6031	USER EQUIPMENT AND METHOD FOR PERFORMING DOWNLINK AND/OR UPLINK POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	13/955481	9307501	US-2013-0315170-A1		
6032	USER EQUIPMENT AND METHOD FOR PERFORMING DOWNLINK AND/OR UPLINK POWER CONTROL	[redacted]	[redacted]	NP	PAT-Active	CN	2011104141753	ZL2011104141753	102547950		
6033	BENUTZEREINRICHTUNG UND VERFAHREN ZUM DURCHFÜHREN VON ABWÄRTS-UND/ODER AUFWÄRTS-LEISTUNGSREGELUNG	[redacted]	[redacted]	NP	PAT-Active	DE	1020110563857	########	102011056385		
6034	TRANSCEIVER WITH INTERFERER CONTROL	[redacted]	[redacted]	NP	PAT-Active	CN	2011102310649	ZL2011102310649	102377493		
6035	DC POWER CONTROL FOR POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Active	US	12/871094	8463208	US-2012-0052823-A1		
6036	DC POWER CONTROL FOR POWER AMPLIFIERS	[redacted]	[redacted]	CNT	PAT-Active	US	13/913659	8755759	US-2013-0273979-A1		
6037	DC POWER CONTROL FOR POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Active	CN	2011102523819	ZL2011102523819	102437860		
6038	CALIBRATION CIRCUIT AND METHOD FOR CALIBRATING CAPACITIVE COMPENSATION IN DIGITAL-TO-ANALOG CONVERTERS	[redacted]	[redacted]	NP	PAT-Active	US	12/987314	8325072	US-2012-0176258-A1		
6039	CALIBRATION CIRCUIT AND METHOD FOR CALIBRATING CAPACITIVE COMPENSATION IN DIGITAL-TO-ANALOG CONVERTERS	[redacted]	[redacted]	NP	PAT-Active	CN	2012100058431	ZL2012100058431	102594348		
6040	KALIBRIERUNGSSCHALTUNG UND VERFAHREN ZUM KALIBRIEREN EINER KAPAZITIVEN KOMPENSATION IN DIGITAL-ANALOG-WANDLERN	[redacted]	[redacted]	NP	PAT-Active	DE	1020121001448	########	102012100144		
6041	METHOD FOR PROCESSING DATA	[redacted]	[redacted]	NP	PAT-Active	US	12/939327	8873678	US-2012-0114016-A1		
6042	RF FEEDBACK RECEIVER ARRANGEMENT RF TRANSMIT ARRANGEMENT AND RF TRANSCEIVER ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/341058	8639192	US-2012-0214426-A1		
6043	RF FEEDBACK RECEIVER ARRANGEMENT RF TRANSMIT ARRANGEMENT AND RF TRANSCEIVE ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	CN	2011104632685	ZL2011104632685	102647196		
6044	PA BIAS OPTIMIZATION FOR MODULATION SCHEMES WITH VARIABLE BANDWIDTH	[redacted]	[redacted]	NP	PAT-Active	US	12/882544	8655293	US-2012-0064849-A1		
6045	PA BIAS OPTIMIZATION FOR MODULATION SCHEMES WITH VARIABLE BANDWIDTH	[redacted]	[redacted]	CNT	PAT-Active	US	14/179861	8938205	US-2014-0162578-A1		
6046	PA BIAS OPTIMIZATION FOR MODULATION SCHEMES WITH VARIABLE BANDWIDTH	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800445194	ZL2011800445194	103765784		
6047	LEISTUNGSVERSTÄRKERVORSPANNUNGSOPTIMIERUNG FÜR MODULATIONSVERFAHREN MIT VARIABLER BANDBREITE	[redacted]	[redacted]	PCT	APP-Pending	DE	1120111026927		112011102692		
6048	MOBILE COMMUNICATION SYSTEM RELAY STATION BASE STATION MOBILE COMMUNICATION NETWORK AND NETWORK COMPONENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800528727	ZL2011800528727	103314626		
6049	MOBILE COMMUNICATION SYSTEM RELAY STATION BASE STATION MOBILE COMMUNICATION NETWORK AND NETWORK COMPONENT	[redacted]	[redacted]	PCT	APP-Pending	IN	527/KOLNP/2013		527/KOLNP/2013		
6050	RESOURCE ALLOCATION IN A MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	13/820157	9247479	US-2013-0223257-A1		
6051	RESOURCE ALLOCATION IN A MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	US	14/943855	9980200	US-2016-0073320-A1		
6052	COEFFICIENT BOOST MULTIPLY ACCUMULATE UNIT	[redacted]	[redacted]	NP	PAT-Active	US	12/978826	8819100	US-2012-0166504-A1		
6053	COEFFICIENT BOOST MULTIPLY ACCUMULATE UNIT	[redacted]	[redacted]	NP	PAT-Active	CN	201110443636X	ZL201110443636X	102681814		
6054	KOEFFIZIENTEN-VERSTÄRKUNGS-MULTIPLIZIEREN-AKKUMULIEREN-EINHEIT	[redacted]	[redacted]	NP	APP-Pending	DE	1020110898433		102011089843		
6055	RECEIVER FOR RECEIVING RF-SIGNALS IN A PLURALITY OF DIFFERENT COMMUNICATION BANDS AND TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	US	13/027497	8649302	US-2012-0207064-A1		
6056	RECEIVER FOR RECEIVING RF-SIGNALS IN A PLURALITY OF DIFFERENT COMMUNICATION BANDS AND TRANSCEIVER	[redacted]	[redacted]	CNT	PAT-Active	US	14/176221	8953502	US-2014-0155016-A1		
6057	RECEIVER FOR RECEIVING RF-SIGNALS IN A PLURALITY OF DIFFERENT COMMUNICATION BANDS AND TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	CN	2012100334840	ZL2012100334840	102647201		
6058	Receiver for receiving high frequency-signals in mobile communication bands eg long term evolution-bands has receiving ports associated with sets of input circuits for receiving signals in groups of communication bands respectively Translation from Thomson	[redacted]	[redacted]	NP	PAT-Active	DE	1020122022996	########	102012202299		
6059	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6060	RECEIVER FOR RECEIVING RF-SIGNALS IN A PLURALITY OF DIFFERENT COMMUNICATION BANDS AND TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	KR	10-2012-0014931	10-1336471	10-2012-0093782		
6061	RECEIVER WITH WIDE DYNAMIC RANGE AND LOW POWER CONSUMPTION	[redacted]	[redacted]	NP	PAT-Active	US	12/984864	8971835	US-2012-0169419-A1		
6062	Empfänger mit breitem Dynamikbereich und niedriger Leistungsaufnahme	[redacted]	[redacted]	NP	PAT-Active	DE	1020122001492	########	102012200149		
6063	ITERATIVE DECODER	[redacted]	[redacted]	NP	PAT-Active	CN	2012100261657	ZL2012100261657	102638278		
6064	ITERATIVER DECODIERER	[redacted]	[redacted]	NP	APP-Pending	DE	1020121009457		102012100945		
6065	ITERATIVE DECODER	[redacted]	[redacted]	NP	PAT-Active	IN	50/KOL/2012	292340			
6066	AMPLIFIER CIRCUIT MOBILE COMMUNICATION DEVICE AND METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	13/073067	8497737	US-2012-0249236-A1		
6067	AMPLIFIER CIRCUIT MOBILE COMMUNICATION DEVICE AND METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	CN	2012100856624	ZL2012100856624	102710223		
6068	Amplifier circuit for use in mobile communication device eg wideband code division multiple access system has operating point controller providing operating point control signal to adjust operating point of power amplifier Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020122049452		102012204945		
6069	DIGITAL-TO-ANALOG CONVERSION ARRANGEMENT WITH POWER RANGE DEPENDENT D/A CONVERTER SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	13/106992	8462035	US-2012-0286984-A1		
6070	DIGITAL-TO-ANALOG CONVERSION ARRANGEMENT WITH POWER RANGE DEPENDENT D/A CONVERTER SELECTION	[redacted]	[redacted]	NP	PAT-Active	CN	2012101747959	ZL2012101747959	102790620		
6071	JOINT ADAPTIVE BIAS POINT ADJUSTMENT AND DIGITAL PRE-DISTORTION FOR POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	13/036758	8908751	US-2012-0219048-A1		
6072	JOINT ADAPTIVE BIAS POINT ADJUSTMENT AND DIGITAL PREDISTORTION FOR POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	CN	2012100472874	ZL2012100472874	102651634		
6073	JOINT ADAPTIVE BIAS POINT ADJUSTMENT AND DIGITAL PREDISTORTION FOR POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	KR	10-2012-0019694	10-1289983	10-2012-0098506		
6074	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	NP	PAT-Active	US	13/043606	9374767	US-2012-0230244-A1	Yes	
6075	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	CNT	PAT-Active	US	15/150657	9635567	US-2016-0277945-A1	Yes	
6076	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	CNT	PAT-Active	US	15/453552	10057755	US-2017-0180974-A1	Yes	
6077	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	NP	PAT-Active	CN	201210060928X	ZL201210060928X	102685770	Yes	
6078	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	DIV	PAT-Active	CN	2015102516870	ZL2015102516870	104980991	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6079	KOMMUNIKATIONSVORRICHTUNGEN UND VERFAHREN ZUR NETZWERK/SIGNALISIERUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020121018634		102012101863	Yes	
6080	COMMUNICATION DEVICES AND METHODS FOR NETWORK SIGNALING	[redacted]	[redacted]	FPD	APP-Pending	HK	151122246		1211773	Yes	
6081	SIGNAL PROCESSING CIRCUIT AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	13/403240	8767868	US-2012-0219088-A1		
6082	SIGNAL PROCESSING CIRCUIT AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/278958	8934574	US-2014-0247905-A1		
6083	SIGNAL PROCESSING CIRCUIT AND METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	2012101147339	ZL2012101 147339	102710269		
6084	SIGNALVERARBEITUNGSSCHALTUNG UND VERFAHREN	[redacted]	[redacted]	NP	APP-Pending	DE	1020110047522		102011004752		
6085	SIGNALVERARBEITUNGSSCHALTUNG UND VERFAHREN	[redacted]	[redacted]	DIV	APP-Pending	DE	1020111197218		102011119721		
6086	SIGNAL PROCESSING CIRCUIT AND METHOD	[redacted]	[redacted]	NP	PAT-Active	KR	10-2012-0019846	10-1345503	10-2012-0098515		
6087	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS	[redacted]	[redacted]	NP	PAT-Active	CN	2012100095587	ZL2012100 095587	102594387		
6088	FUNKVORRICHTUNGEN REGULIERUNGSSERVER UND VERIFIKATIONSSERVER	[redacted]	[redacted]	NP	APP-Pending	DE	1020121003076		102012100307		
6089	METHOD FOR TRANSMITTING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	13/083675	8711977	US-2012-0257686-A1		
6090	METHOD FOR TRANSMITTING A SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	14/217889	8989309	US-2014-0198782-A1		
6091	A METHOD FOR TRANSMITTING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2012101153081	ZL2012101 153081	102739354		
6092	VERFAHREN ZUM SENDEN EINES SIGNALS	[redacted]	[redacted]	NP	PAT-Active	DE	1020121030839	########	102012103083		
6093	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/040286	8463265	US-2012-0225651-A1		
6094	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/913528	9125171	US-2013-0288680-A1		
6095	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2012800116577		103404183		
6096	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2019108064610		110381579		
6097	MOBILES KOMMUNIKATIONSENDGERAT UND VERFAHREN ZUM ANMELDEN EINES MOBILEN KOMMUNIKATIONSENDGERATS IN EINEM KOMMUNIKATIONSNETZWERK	[redacted]	[redacted]	PCT	APP-Pending	DE	1120120011090		112012001109		
6098	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	2277/KOLNP/2013		2277/KOLNP/2013		
6099	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	13/105069	8611952	US-2012-0289285-A1		
6100	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORKOPERATION	[redacted]	[redacted]	NP	PAT-Active	CN	2012101582922	ZL2012101 582922	102781121		
6101	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	DIV	APP-Pending	CN	201610533478X		106060929		
6102	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	DIV	PAT-Active	US	14/083553	9735819	US-2014-0094131-A1		
6103	MOBILE COMMUNICATIONS RADIO RECEIVER FOR PROCESSING SIGNALS FROM MULTIPLE NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/655143	10128882	US-2018-0006674-A1		
6104	Mobilkommunikations-Funkempfänger für Mehrnetzbetrieb	[redacted]	[redacted]	NP	PAT-Active	DE	1020121040303	########	102012104030		
6105	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6106	RF DAC WITH CONFIGURABLE DAC MIXER INTERFACE AND CONFIGURABLE MIXER	[redacted]	[redacted]	NP	PAT-Active	US	13/106963	8604958	US-2012-0286983-A1		
6107	RF DAC WITH CONFIGURABLE DAC MIXER INTERFACE AND CONFIGURABLE MIXER	[redacted]	[redacted]	CNT	PAT-Active	US	14/100227	9143155	US-2014-0091959-A1		
6108	RF DAC WITH CONFIGURABLE DAC MIXER INTERFACE AND CONFIGURABLE MIXER	[redacted]	[redacted]	NP	PAT-Active	CN	2012101583592	ZL2012101 583592	102780483		
6109	Circuitry for enabling transmission of high frequency signal for use in eg cellular telephone has control block that selectively controls output current from digital to analog converter to different mixers of mixer module Translation from Thomson	[redacted]	[redacted]	NP	APP-Pending	DE	1020122079092		102012207909		
6110	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	13/106925	8738074	US-2012-0289176-A1		
6111	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201280022933X	ZL2012800 22933X	103518330		
6112	MOBILE COMMUNICATIONS RADIO RECEIVER FOR MULTIPLE NETWORK OPERATION	[redacted]	[redacted]	DIV	PAT-Active	US	14/265423	9526126	US-2014-0235292-A1		
6113	SMART STRATEGIES FOR PERFORMING CALLS AND RECEIVING PAGINGS WITH PHONES WITH DUALL-SIM-DUAL-TRANSPORT (DSDT)	[redacted]	[redacted]	PCT	PAT-Active	DE	1120120020693	########	112012002069		
6114	A METHOD OF CHANNEL ESTIMATION AND A CHANNEL ESTIMATOR	[redacted]	[redacted]	NP	PAT-Active	CN	2012101153058	ZL2012101 153058	102739573		
6115	Verfahren zur Kanalschaetzung und Kanalschaetzer	[redacted]	[redacted]	NP	APP-Pending	DE	1020120074697		102012007469		
6116	RECEIVER OF A MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/108508	9088328	US-2012-0295604-A1		
6117	ADAPTIVE FILTERING OF BLOCKER SIGNALS IN DEMODULATORS	[redacted]	[redacted]	NP	PAT-Active	US	13/328388	8610495	US-2013-0154728-A1		
6118	ADAPTIVE FILTERING OF BLOCKER SIGNALS IN DEMODULATORS	[redacted]	[redacted]	NP	PAT-Active	CN	2012105416781	ZL2012105 416781	103166600		
6119	ADAPTIVES FILTERN VON BLOCKERSIGNALEN BEI DEMODULATOREN	[redacted]	[redacted]	NP	APP-Pending	DE	1020121121060		102012112106		
6120	MIXER CELL MODULATOR AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	13/464163	8704606	US-2012-0286891-A1		
6121	MIXER CELL MODULATOR AND METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	2012101474773	ZL2012101 474773	102780454		
6122	MISCHERZELLE MODULATOR UND VERFAHREN	[redacted]	[redacted]	NP	PAT-Active	DE	1020110757961	########	102011075796		
6123	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6124	ANTENNA TUNER IN COMBINATION WITH MODIFIED FEEDBACK RECEIVER FOR IMPROVED ANTENNA MATCHING	[redacted]	[redacted]	NP	PAT-Active	US	13/081694	8452246	US-2012-0258675-A1		
6125	METHOD AND DEVICE FOR IMPROVED ANTENNA MATCHING	[redacted]	[redacted]	NP	PAT-Active	CN	2012101092393	ZL2012101 092393	102739265		
6126	ANTENNENTUNER IN KOMBINATION MIT EINEM MODIFIZIERTEN RUECKKOPPLUNGSEMPFAENGER ZUR VERBESSERTEN ANTENNENANPASSUNG	[redacted]	[redacted]	NP	PAT-Active	DE	1020121029938	########	102012102993		
6127	TRANSMIT CIRCUIT METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER AND METHOD FOR ADAPTING THE PROVISION OF A BIAS INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/191685	8761698	US-2013-0027129-A1		
6128	TRANSMIT CIRCUIT METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER AND METHOD FOR ADAPTING THE PROVISION OF A BIAS INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	2012102629269	ZL2012102 629269	102904532		
6129	TRANSMIT CIRCUIT METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER AND METHOD FOR ADAPTING THE PROVISION OF A BIAS INFORMATION	[redacted]	[redacted]	DIV	PAT-Active	US	14/273672	9124316	US-2014-0248844-A1		
6130	TRANSMIT CIRCUIT METHOD FOR ADJUSTING A BIAS OF A POWER AMPLIFIER AND METHOD FOR ADAPTING THE PROVISION OF A BIAS INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/808140	9520841	US-2015-0333711-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6131	SENDESCHALTKREIS VERFAHREN ZUM EINSTELLEN EINES BIAS EINES LEISTUNGSVERSTÄRKERS UND VERFAHREN ZUM ANPASSEN DER BEREITSTELLUNG VON BIAS-INFORMATIONEN	[redacted]	[redacted]	NP	APP-Pending	DE	102012213096		102012213096		
6132	RECEIVER CIRCUIT AND METHOD FOR ESTIMATING THE VALUE OF A RECEIVED SIGNAL TAKING THREE POSSIBLE VALUES (ACK NACK DTX) TAKING INTO ACCOUNT THE NOISE POWER AND THE CHANNEL POWER	[redacted]	[redacted]	PCT	PAT-Active	CN	201280031565	ZL2012800 315665	103959728		
6133	FEEDBACK RECEIVER FOR ANTENNA TUNER CALCULATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/279563	8600319	US-2013-0094596-A1		
6134	FEEDBACK RECEIVER FOR ANTENNA TUNER CALCULATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/065762	8964072	US-2014-0057579-A1		
6135	FEEDBACK RECEIVER FOR ANTENNA TUNER CALCULATIONS AND METHOD FOR ADJUSTING AN ANTENNA TUNING	[redacted]	[redacted]	NP	PAT-Active	CN	201210386984	ZL2012103 856984	103051348		
6136	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/296337	9094397	US-2014-0287719-A1		
6137	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS	[redacted]	[redacted]	NP	PAT-Active	CN	201710009853	ZL2012100 095337	102595393		
6138	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS	[redacted]	[redacted]	CIP	PAT-Active	US	13/219745	8779890	US-2012-0182121-A1		
6139	SPLIT VARACTOR ARRAY WITH IMPROVED MATCHING AND VARACTOR SWITCHING SCHEME	[redacted]	[redacted]	NP	PAT-Active	US	13/281871	8779867	US-2013-0107978-A1		
6140	ENHANCED PHASE DISCRIMINATOR FOR FAST PHASE ALIGNMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201280032101	ZL2012800 321016	103621005		
6141	ADJUSTABLE DELAYER METHOD FOR DELAYING AN INPUT SIGNAL AND POLAR TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	13/184171	8909065	US-2013-0016982-A1		
6142	ADJUSTABLE DELAYER METHOD FOR DELAYING AN INPUT SIGNAL AND POLAR TRANSMITTER	[redacted]	[redacted]	CNT	PAT-Active	US	14/560863	9438351	US-2015-0195041-A1		
6143	ADJUSTABLE DELAYER METHOD FOR DELAYING AN INPUT SIGNAL AND POLAR TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	CN	201710282382	ZL2012102 623321	102882516		
6144	ADJUSTABLE DELAYER EG DIGITAL TIME CONVERTER FOR USE IN POLAR TRANSMITTER TO ADJUSTABLY DELAY INPUT SIGNAL HAS COMBINER COMBINING DELAY TUNING INFORMATION WHERE DELAY OF TUNABLE DELAY CIRCUITS IS TUNED BASED ON COMBINED INFORMATION TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	APP-Pending	DE	102012212349		102012212349		
6145	HIGH-SPEED LEVEL SHIFTER BETWEEN LOW-SIDE LOGIC AND HIGH-SIDE LOGIC	[redacted]	[redacted]	NP	PAT-Active	US	13/222215	8581627	US-2013-0049808-A1		
6146	HIGH-SPEED LEVEL SHIFTER BETWEEN LOW-SIDE LOGIC AND HIGH-SIDE LOGIC	[redacted]	[redacted]	NP	PAT-Active	CN	201210309153	ZL2012103 091535	102970024		
6147	HIGH-SPEED LEVEL SHIFTER BETWEEN LOW-SIDE LOGIC AND HIGH-SIDE LOGIC	[redacted]	[redacted]	NP	PAT-Active	DE	102012108127	########	102012108127		
6148	RADIO RECEIVER APPARATUS OF A CELLULAR RADIO NETWORK	[redacted]	[redacted]	NP	PAT-Active	CN	201310059675	ZL2013100 598754	103287113		
6149	FUNKEMPFANGERVORRICHTUNG EINES ZELLULARFUNKNETZES	[redacted]	[redacted]	NP	PAT-Active	DE	102013101589	########	102013101589		
6150	DETECTION OF BINARY SIGNALING IN COMMUNICATIONS RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	13/455576	8862685	US-2013-0288629-A1		
6151	DETECTION OF BINARY SIGNALING IN COMMUNICATIONS RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	CN	201310145948	ZL2013101 456481	103378865		
6152	DETEKTION BINAERER SIGNALISIERUNG IN EINEM KOMMUNIKATIONSFUNKEMPFAENGER	[redacted]	[redacted]	NP	APP-Pending	DE	102013104215		102013104215		
6153	ADAPTIVE COMPENSATION OF NONLINEAR FREQUENCY DISTORTION IN POLAR TRANSMITTERS BASED ON A LEAST SQUARES ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/326749	8798194	US-2013-0156083-A1		
6154	METHOD FOR PROCESSING A DATA SIGNAL AND RECEIVER CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/544045	9210006	US-2014-0010275-A1		
6155	METHOD FOR PROCESSING A DATA SIGNAL AND RECEIVER CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	CN	201310279257	ZL2013102 792579	103546174		
6156	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCT	PAT-Active	AU	2012387978	########	2012387978	Yes	
6157	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200102	########	2016200102	Yes	
6158	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112015003162-5		112015003162-5	Yes	
6159	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CA	2880688	2880688	2880688	Yes	
6160	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCT	PAT-Active	CN	201280075359	ZL2012800 753596	104769927	Yes	
6161	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCD	APP-Pending	CN	201610049163		105703949	Yes	
6162	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	DIV	APP-Pending	CN	201710516060		107317709	Yes	
6163	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	EPD	APP-Pending	HK	18102847		1243567	Yes	
6164	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EP	12790957	2896197	2896197	Yes	
6165	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	AT	12790957	2896197	2896197	Yes	
6166	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	BE	12790957	2896197	2896197	Yes	
6167	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	CH	12790957	2896197	2896197	Yes	
6168	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	EP	1616104	3057300	3057300	Yes	
6169	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	EP	1616399	3065386	3065386	Yes	
6170	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	AT	1616399	3065386	3065386	Yes	
6171	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	BE	1616399	3065386	3065386	Yes	
6172	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	CH	1616399	3065386	3065386	Yes	
6173	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	DE	1616399	3065386	3065386	Yes	
6174	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	EE	1616399	3065386	3065386	Yes	
6175	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	ES	1616399	3065386	3065386	Yes	
6176	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	FR	1616399	3065386	3065386	Yes	
6177	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	GB	1616399	3065386	3065386	Yes	
6178	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	GR	1616399	3065386	3065386	Yes	
6179	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	HU	1616399	3065386	3065386	Yes	
6180	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	IE	1616399	3065386	3065386	Yes	
6181	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	NL	1616399	3065386	3065386	Yes	
6182	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	SK	1616399	3065386	3065386	Yes	
6183	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	AT	1616104	3057300	3057300	Yes	
6184	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	BE	1616104	3057300	3057300	Yes	
6185	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	CH	1616104	3057300	3057300	Yes	
6186	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	DE	1616104	3057300	3057300	Yes	
6187	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	DE	12790957	2896197	2896197	Yes	
6188	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	EE	1616104	3057300	3057300	Yes	
6189	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	ES	1616104	3057300	3057300	Yes	
6190	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	FR	1616104	3057300	3057300	Yes	

	A	B	C	D	E	F	G	H	I	J	K
	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6191	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	GB	1616104423	3057300	3057300	Yes	
6192	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	GR	1616104423	3057300	3057300	Yes	
6193	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	HU	1616104423	3057300	3057300	Yes	
6194	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	IE	1616104423	3057300	3057300	Yes	
6195	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	NL	1616104423	3057300	3057300	Yes	
6196	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	ETD	PAT-Active	SK	1616104423	3057300	3057300	Yes	
6197	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EE	12790957D	2896197	2896197	Yes	
6198	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	ES	12790957D	2896197	2896197	Yes	
6199	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	FR	12790957D	2896197	2896197	Yes	
6200	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GB	12790957D	2896197	2896197	Yes	
6201	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GR	12790957D	2896197	2896197	Yes	
6202	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	HU	12790957D	2896197	2896197	Yes	
6203	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	IE	12790957D	2896197	2896197	Yes	
6204	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	NL	12790957D	2896197	2896197	Yes	
6205	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	SK	12790957D	2896197	2896197	Yes	
6206	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	EPR	PAT-Active	HK	15306162.8	1207769	1207769	Yes	
6207	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	EPD	APP-Pending	HK	16108426.1		1226557	Yes	
6208	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCT	APP-Pending	IN	390/CHENP/2015		390/CHENP/2015	Yes	
6209	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-524851	6203843	2015-534292	Yes	
6210	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-165725	6576952	2017-229090	Yes	
6211	MEDIA PROFILES FOR CONFIGURING A TRANSCEIVER WITHIN A MODEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004203	10-1675206	10-2015-0038324	Yes	
6212	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/003208	348435	MX/a/2015/003208	Yes	
6213	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6214	MODEM DEVICES APPLICATION PROCESSORS COMMUNICATION DEVICES METHODS FOR CONTROLLING A MODEM DEVICE METHODS FOR CONTROLLING AN APPLICATION PROCESSOR AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	PAT-Active	US	13/977163	9124595	US-2015-0010045-A1	Yes	
6215	MODEM DEVICES APPLICATION PROCESSORS COMMUNICATION DEVICES METHODS FOR CONTROLLING A MODEM DEVICE METHODS FOR CONTROLLING AN APPLICATION PROCESSOR AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	14/316775	9144110	US-2014-0308943-A1	Yes	
6216	METHODS AND SYSTEMS TO PROVIDE LOW NOISE AMPLIFICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/800811	9124229	US-2014-0266439-A1		
6217	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	PCT	APP-Pending	CN	201480004296.2		105230080		
6218	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPT	PAT-Active	EP	14703548.9	2954729	2954729		
6219	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPT	PAT-Active	DE	14703548.9	2954729	2954729		
6220	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPT	PAT-Active	FR	14703548.9	2954729	2954729		
6221	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPT	PAT-Active	GB	14703548.9	2954729	2954729		
6222	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPT	PAT-Active	NL	14703548.9	2954729	2954729		
6223	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	EPR	APP-Pending	HK	16107253.9		1219381		
6224	ENVELOPE TRACKING SYSTEM AND METHOD FOR CALIBRATING A SUPPLY VOLTAGE OF AN ENVELOPE TRACKING POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	13/779843	8737940	98737940		
6225	ENVELOPE TRACKING SYSTEM AND METHOD FOR CALIBRATING A SUPPLY VOLTAGE OF AN ENVELOPE TRACKING POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	CN	201410071592.8	ZL2014100715925	104020812		
6226	ENVELOPE TRACKING SYSTEM AND METHOD FOR CALIBRATING A SUPPLY VOLTAGE OF AN ENVELOPE TRACKING POWER AMPLIFIER	[redacted]	[redacted]	NP	APP-Pending	DE	102014101618.1		102014101618		
6227	ENVELOPE TRACKING SYSTEM AND METHOD FOR CALIBRATING A SUPPLY VOLTAGE OF AN ENVELOPE TRACKING POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	KR	10-2014-0023686	10-1618429	10-2014-0108167		
6228	ENVELOPE TRACKING SYSTEM AND METHOD FOR CALIBRATING A SUPPLY VOLTAGE OF AN ENVELOPE TRACKING POWER AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	TW	103100538	I577363	201503577		
6229	COMMUNICATION SYSTEMS AND METHODS SUPPORTING MULTIPLE MODULATION TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	US	13/755511	8867685	US-2014-0211870-A1		
6230	REDUNDANT DELAY DIGITAL-TO-TIME CONVERTER	[redacted]	[redacted]	NP	PAT-Active	DE	102014003642.1	60868898	102014003642		
6231	BIPOLAR TIME-TO-DIGITAL CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	13/843763	8970420	US-2014-0266848-A1		
6232	BIPOLAR TIME-TO-DIGITAL CONVERTER	[redacted]	[redacted]	CNT	PAT-Active	US	14/635149	9292007	US-2015-0241850-A1		
6233	BIPOLAR TIME-TO-DIGITAL CONVERTER	[redacted]	[redacted]	NP	APP-Pending	DE	102014103092.3		102014103092		
6234	COMMUNICATION DEVICES AND METHODS FOR RECEIVING DATA	[redacted]	[redacted]	NP	PAT-Active	US	13/682758	8873665	US-2014-0140424-A1		
6235	COMMUNICATION DEVICES AND METHODS FOR RECEIVING DATA	[redacted]	[redacted]	NP	PAT-Active	CN	201310675023.3	ZL2013106750232	103840874		
6236	COMMUNICATION DEVICES AND METHODS FOR RECEIVING DATA	[redacted]	[redacted]	DIV	PAT-Active	CN	201510603884.8	ZL2015106038848	105141386		
6237	DATENUBERTRAGUNGSVORRICHTUNGEN UND VERFAHREN ZUM EMPFANGEN VON DATEN	[redacted]	[redacted]	NP	APP-Pending	DE	102013112472.0		102013112472		
6238	DATENUBERTRAGUNGSVORRICHTUNGEN UND VERFAHREN ZUM EMPFANGEN VON DATEN	[redacted]	[redacted]	DIV	APP-Pending	DE	102013022356.9		102013022356		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6239	COMMUNICATIONS TERMINAL A NETWORK COMPONENT A METHOD FOR TRANSMITTING A SIGNAL AND A METHOD FOR PROVIDING FEEDBACK INFORMATION TO A COMMUNICATIONS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	13/834471	10003387	US-2014-0273874-A1		
6240	A COMMUNICATIONS TERMINAL A NETWORK COMPONENT A METHOD FOR TRANSMITTING A SIGNAL AND A METHOD FOR PROVIDING FEEDBACK INFORMATION TO A COMMUNICATIONS TERMINAL	[redacted]	[redacted]	NP	APP-Pending	DE	102014103047		102014103204		
6241	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/716978	9686089	US-2013-0242819-A1	Yes	
6242	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	AU	2013232618	########	2013232618	Yes	
6243	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200440	########	2016200440	Yes	
6244	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6245	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/594267	10374783	US-2017-0250790-A1	Yes	
6246	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	CNT	APP-Pending	US	16/408724		US 2019-0372744 A1	Yes	
6247	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CA	2861503	2861503	2861503	Yes	
6248	METHOD APPARTUS AND SYSTEM FOR SCHEDULING TIMING DESIGN FOR A TDD SYSTEM (amended by SIPO)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380014593.3	ZL2013800145521	104170304	Yes	
6249	METHOD APPARTUS AND SYSTEM FOR SCHEDULING TIMING DESIGN FOR A TDD SYSTEM (amended by SIPO)	[redacted]	[redacted]	PCD	APP-Pending	CN	201810174451.9		108282271	Yes	
6250	METHOD APPARTUS AND SYSTEM FOR SCHEDULING TIMING DESIGN FOR A TDD SYSTEM (amended by SIPO)	[redacted]	[redacted]	FPD	APP-Pending	HK	18110719.5		1251812	Yes	
6251	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	13761752.8		2826190	Yes	
6252	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201405895	IDP000053254	2016/01030	Yes	
6253	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			Yes	
6254	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-557861	5927261	2015-512211	Yes	
6255	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-080084	6156957	2016-174371	Yes	
6256	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-083392	6354088	2017-188230	Yes	
6257	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2018-7025705	10-1760018	10-2014-0124057	Yes	
6258	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7031384	10-1823842	10-2017-0130094	Yes	
6259	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/008942	347863	MX/a/2014/008942	Yes	
6260	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6261	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6262	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	RU	2014137294	2596151	2014137294	Yes	
6263	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	RU	2016126977	2643783		Yes	
6264	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/730248	8805384	US-2013-0288650-A1	Yes	
6265	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	AU	2013251441	########	2013251441	Yes	
6266	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200252	########	2016200252	Yes	
6267	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	AU	2017203841	########	2017203841	Yes	
6268	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0293	1021196		Yes	
6269	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	BE	2014/0033	1022039		Yes	
6270	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	BR	112014026838-0		112014026838-0	Yes	
6271	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/104633	9100911	US-2014-0106731-A1	Yes	
6272	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/753669	9288755	US-2015-0304948-A1	Yes	
6273	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	CNT	APP-Pending	US	15/903264		US-2018-0192368-A1	Yes	
6274	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	CNT	PAT-Active	US	15/003296	9942841	US-2016-0157174-A1	Yes	
6275	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	CA	2868114	2868114	2868114	Yes	
6276	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	CN	201310149106.3	ZL2013101491063	103379599	Yes	
6277	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	CN	201410033361.8	ZL2014100333615	103731912	Yes	
6278	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	APP-Pending	CN	201611054079.X		106851795	Yes	
6279	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	FPD	APP-Pending	HK	17113074.3		1240010	Yes	
6280	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	13782418.1	2842385	2842385	Yes	
6281	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	AT	13782418.1	2842385	2842385	Yes	
6282	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	BE	13782418.1	2842385	2842385	Yes	
6283	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	CH	13782418.1	2842385	2842385	Yes	
6284	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	ETD	APP-Pending	EP	18150530.6		3324683	Yes	
6285	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6286	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6287	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6288	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6289	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6290	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6291	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	13782418.1	2842385	2842385	Yes	
6292	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EE	13782418.1	2842385	2842385	Yes	
6293	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	ES	13782418.1	2842385	2842385	Yes	
6294	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	13782418.1	2842385	2842385	Yes	
6295	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	13782418.1	2842385	2842385	Yes	
6296	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GR	13782418.1	2842385	2842385	Yes	
6297	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	IE	13782418.1	2842385	2842385	Yes	
6298	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	13782418.1	2842385	2842385	Yes	
6299	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	SK	13782418.1	2842385	2842385	Yes	
6300	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	FI	20135414	126529	20135414	Yes	
6301	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	FI	20145059	126673	20145059	Yes	
6302	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	APP-Pending	FI	20175005		20175005	Yes	
6303	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	APP-Pending	FI	20175122		20175122	Yes	
6304	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	FR	1353736	2990095	2990095	Yes	
6305	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	FR	1450547	3000358	3000358	Yes	
6306	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	FR	1662814	3043876	3043876	Yes	
6307	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	FPR	PAT-Active	HK	14108923.0	1190861	1190861	Yes	
6308	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	FPD	PAT-Active	HK	14108276.7	1194907	1194907	Yes	
6309	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201805795		2016/01636	Yes	
6310	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	6901/CHENP/2014		6901/CHENP/2014	Yes	
6311	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000688	1418362	MI2013A000688	Yes	
6312	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	IT	MI2014A000095	1421156		Yes	
6313	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-507263	5901841	2015-515229	Yes	
6314	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCD	APP-Pending	JP	2015-045035		2016-180098	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6315	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7027114	10-1556489	10-2014-0136011	Yes	
6316	INTER-RAT-COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/011580	341485	MX/a/2014/011580	Yes	
6317	INTER-RAT-COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/010859	363953		Yes	
6318	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2014702715	MY-167275-A		Yes	
6319	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	NL	2010712	2010712	2010712	Yes	
6320	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	NL	2012136	2012136	2012136	Yes	
6321	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	NL	2013716	2013716	2013716	Yes	
6322	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	RU	2014138925	2593390	2014138925	Yes	
6323	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCD	PAT-Active	RU	2016124768	2649858	2016124768	Yes	
6324	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	APP-Pending	SE	1650867-3		1650867	Yes	
6325	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	TW	102113262	I496489	201347580	Yes	
6326	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	TW	103101785	I504294	201419902	Yes	
6327	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	TW	104124754	I587719	201611638	Yes	
6328	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	PAT-Active	TW	106110818	I645732	201739292	Yes	
6329	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	US	13/719402	9357272	US-2014-0040959-A1	Yes	
6330	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	AU	2013296977	########	2013296977	Yes	
6331	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0528	1021237		Yes	
6332	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112015002361-4		112015002361-4	Yes	
6333	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	CA	2878329	2878329	2878329	Yes	
6334	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310463544 7	ZL2013104 635447	103596065	Yes	
6335	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138261730		2880813	Yes	
6336	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	ES	P201331225	2529840	2529840	Yes	
6337	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	FI	20135811	125747	20135811	Yes	
6338	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	FR	1357751	2994362	2994362	Yes	
6339	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT	[redacted]	[redacted]	FPR	PAT-Active	HK	141084608	1195182	1195182	Yes	
6340	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201500638	IDP000055 499	2016/04340	Yes	
6341	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6342	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A001328	1419084	MI2013A001328	Yes	
6343	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-520358	6169690	2015-531903	Yes	
6344	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7000078	10-1797326	10-2015-0035993	Yes	
6345	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/000865	350896	MX/a/2015/000865	Yes	
6346	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6347	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	NL	2011263	2011263	2011263	Yes	
6348	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2014153567	2598800	2014153567	Yes	
6349	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	APP-Pending	SE	1350933-6		1350933	Yes	
6350	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	NP	PAT-Active	TW	102127970	I528753	201419792	Yes	
6351	QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL USING QUALITY ATTRIBUTES IN MANIFEST FILE	[redacted]	[redacted]	NP	PAT-Active	US	13/711316	9125073	US-2014-0040498-A1	Yes	
6352	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	PAT-Active	AU	2013296976	########	2013296976	Yes	
6353	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	PAT-Active	AU	2016204197	########	2016204197	Yes	
6354	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	APP-Pending	BR	112015000117-3		112015000117-3	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6355	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	APP-Pending	BR	122016022895-9		122016022895-9	Yes	
6356	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	CNT	APP-Pending	US	14/801199		US-2015-0334157-A1	Yes	
6357	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	PAT-Active	CA	2878327	2878327	2878327	Yes	
6358	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800363155	ZL2013800363155	104412253	Yes	
6359	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	APP-Pending	CN	2016107818975		106375783	Yes	
6360	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	FPR	APP-Pending	HK	171054861		1232042	Yes	
6361	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	EPT	APP-Pending	EP	138255492		2880548	Yes	
6362	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6363	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-521635	6015856	2015-527809	Yes	
6364	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7036956	10-1607246	10-2015-0016613	Yes	
6365	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7007673	10-1732855	10-2016-0040302	Yes	
6366	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7010580	10-1826916	10-2017-0046800	Yes	
6367	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2018-7003247	10-1912072	10-2018-0029055	Yes	
6368	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/719343	8885752	US-2014-0029684-A1		
6369	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800324771	ZL2013800324771	104396170		
6370	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	US	14/511792	9344170	US-2015-0139121-A1		
6371	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	138230362	2878092	2878092		
6372	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	138230362	2878092	2878092		
6373	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	138230362	2878092	2878092		
6374	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	138230362	2878092	2878092		
6375	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	138230362	########	2878092		
6376	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	138230362	2878092	2878092		
6377	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	138230362	2878092	2878092		
6378	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	138230362	2878092	2878092		
6379	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	138230362	2878092	2878092		
6380	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	138230362	2878092	2878092		
6381	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	138230362	2878092	2878092		
6382	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	138230362	2878092	2878092		
6383	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	138230362	2878092	2878092		
6384	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	138230362	2878092	2878092		
6385	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7036176	10-1696992	10-2015-0013895		
6386	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	US	13/730266	8868067	US-2014-0031030-A1	Yes	
6387	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0506	1021362		Yes	
6388	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	CNT	PAT-Active	US	14/475256	9660710	US-2014-0370885-A1	Yes	
6389	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	CNT	PAT-Active	US	15/488306	10051495	US-2017-0223554-A1	Yes	
6390	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	CN	2013103186101	ZL2013103186101	103582057	Yes	
6391	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	DIV	APP-Pending	CN	2016109610702		107070519	Yes	
6392	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	DIV	APP-Pending	CN	2018103578793		108337027	Yes	
6393	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	FPD	APP-Pending	HK	181116973		1252400	Yes	
6394	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	FPD	APP-Pending	HK	171110113		1237136	Yes	
6395	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	EP	138224050	2878156	2878156	Yes	
6396	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	AT	138224050	2878156	2878156	Yes	
6397	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	BE	138224050	2878156	2878156	Yes	
6398	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	CH	138224050	2878156	2878156	Yes	
6399	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	ETD	APP-Pending	EP	161894548		3125602	Yes	
6400	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	DE	138224050	########	2878156	Yes	
6401	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	EE	138224050	2878156	2878156	Yes	
6402	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	ES	138224050	2878156	2878156	Yes	
6403	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	FR	138224050	2878156	2878156	Yes	
6404	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	GB	138224050	2878156	2878156	Yes	
6405	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	GR	138224050	2878156	2878156	Yes	
6406	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	HU	138224050	2878156	2878156	Yes	
6407	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	EPT	PAT-Active	IE	138224050	2878156	2878156	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6408	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		EPT	PAT-Active	NL	138224050	2878156	2878156	Yes	
6409	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		EPT	PAT-Active	SK	138224050	2878156	2878156	Yes	
6410	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	ES	P201331131	2447215	2447215	Yes	
6411	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	FI	20135774	127339	20135774	Yes	
6412	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		DIV	PAT-Active	FI	20165698	127394	20165698	Yes	
6413	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	FR	1357009	2994049	2994049	Yes	
6414	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		DIV	APP-Pending	FR	1660501		3043299	Yes	
6415	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCT	APP-Pending	ID	P00201408200		2016/02074	Yes	
6416	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCT	APP-Pending	IN	8601/CHENP/2014		8601/CHENP/2014	Yes	
6417	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	IT	MI2013A001194	1418837	MI2013A001194	Yes	
6418	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCT	PAT-Active	JP	2015-518650	6125629	2015-526950	Yes	
6419	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCT	PAT-Active	KR	10-2014-7036278	10-1633666	10-2015-0017364	Yes	
6420	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCT	PAT-Active	MX	MX/a/2014/014900	344844	MX/a/2014/014900	Yes	
6421	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		PCD	PAT-Active	MX	MX/a/2016/010803	355201		Yes	
6422	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	NL	2011175	2011175	2011175	Yes	
6423	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	SE	1350905-4	539348	1350905	Yes	
6424	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		DIV	PAT-Active	SE	1651111-5	539764	1651111	Yes	
6425	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		DIV	APP-Pending	SE	1750937-3		1750937	Yes	
6426	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		NP	PAT-Active	TW	102124517	I487392	201410044	Yes	
6427	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]		DIV	PAT-Active	TW	104108115	I628964	201545577	Yes	
6428	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		CNT	PAT-Active	US	14/620089	9369912	US-2015-0156702-A1		
6429	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		PCT	PAT-Active	CN	201380035390X	ZL2013800 35390X	104412646		
6430	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	EP	138261896	2880902	2880902		
6431	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	AT	138261896	2880902	2880902		
6432	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	BE	138261896	2880902	2880902		
6433	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	CH	138261896	2880902	2880902		
6434	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	DE	138261896	2880902	2880902		
6435	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	EE	138261896	2880902	2880902		
6436	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	ES	138261896	2880902	2880902		
6437	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	FR	138261896	2880902	2880902		
6438	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	GB	138261896	2880902	2880902		
6439	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	GR	138261896	2880902	2880902		
6440	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	HU	138261896	2880902	2880902		
6441	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	IE	138261896	2880902	2880902		
6442	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	NL	138261896	2880902	2880902		
6443	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]		EPT	PAT-Active	SK	138261896	2880902	2880902		
6444	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		NP	PAT-Active	US	13/733110	8995255	US-2014-0036656-A1	Yes	
6445	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		NP	PAT-Active	BE	2013/0520	1020891	1020891	Yes	
6446	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		CNT	PAT-Active	US	14/634626	9154978	US-2015-0189521-A1	Yes	
6447	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		CNT	PAT-Active	US	14/843547	9538413	US-2016-0007216-A1	Yes	
6448	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		CNT	PAT-Active	US	15/356405	9794809	US-2017-0070900-A1	Yes	
6449	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		CNT	PAT-Active	US	15/702089	10299146	US-2018-0007572-A1	Yes	
6450	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		NP	PAT-Active	CN	20131033571963	ZL2013103 57196	103581965	Yes	
6451	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		DIV	APP-Pending	CN	201610812080X		106231615	Yes	
6452	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		DIV	APP-Pending	CN	2017103632651		107197421	Yes	
6453	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		FPD	APP-Pending	HK	171126972		1238849	Yes	
6454	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	EP	138249214	2880890	2880890	Yes	
6455	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	AT	138249214	2880890	2880890	Yes	
6456	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	BE	138249214	2880890	2880890	Yes	
6457	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	CH	138249214	2880890	2880890	Yes	
6458	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		ETD	PAT-Active	EP	181693987	3386232	3386232	Yes	
6459	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		ETD	PAT-Active	DE	181693987	3386232	3386232		
6460	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		ETD	PAT-Active	FR	181693987	3386232	3386232		
6461	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		ETD	PAT-Active	GB	181693987	3386232	3386232		
6462	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		ETD	PAT-Active	NL	181693987	3386232	3386232		
6463	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	DE	138249214	2880890	2880890	Yes	
6464	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	EE	138249214	2880890	2880890	Yes	
6465	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	ES	138249214	2880890	2880890	Yes	
6466	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	FR	138249214	2880890	2880890	Yes	
6467	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	GB	138249214	2880890	2880890	Yes	
6468	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	GR	138249214	2880890	2880890	Yes	
6469	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	HU	138249214	2880890	2880890	Yes	
6470	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	IE	138249214	2880890	2880890	Yes	
6471	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	NL	138249214	2880890	2880890	Yes	
6472	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		EPT	PAT-Active	SK	138249214	2880890	2880890	Yes	
6473	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		NP	PAT-Active	ES	P201331217	2444014	2444014	Yes	
6474	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]		NP	PAT-Active	FI	20135804	127532	20135804	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6475	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	FR	1357633	2994366	2994366	Yes	
6476	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	FR	1655312	3037470	3037470	Yes	
6477	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	171017929		1228169	Yes	
6478	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A001290	1419080	MI2013A001290	Yes	
6479	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7007466	10-1855333	10-2017-0034924	Yes	
6480	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	NL	2011258	2011258	2011258	Yes	
6481	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	SE	1350930-2	539799	1350930	Yes	
6482	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	SE	1650783-2		1650783	Yes	
6483	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	SE	1750936-5		1750936	Yes	
6484	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	102127463	I499343	201410061	Yes	
6485	APPARATUS AND METHOD FOR CELL INFORMATION INDICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/728740	9232503	US-2013-0288672-A1		
6486	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/719362	9515757	US-2013-0301500-A1	Yes	
6487	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	137872776	2847890	2847890	Yes	
6488	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	15/276427	10129830	US-2017-0013557-A1	Yes	
6489	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800246946	ZL2013800246946	104285387	Yes	
6490	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	CN	2017105855993		107257587	Yes	
6491	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	181049001		1245563	Yes	
6492	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	137872776	########	2847890	Yes	
6493	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	137872776	2847890	2847890	Yes	
6494	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	137872776	2847890	2847890	Yes	
6495	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	171506405		3171528	Yes	
6496	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	137872776	2847890	2847890	Yes	
6497	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	137872776	2847890	2847890	Yes	
6498	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	137872776	2847890	2847890	Yes	
6499	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	137872776	2847890	2847890	Yes	
6500	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	137872776	2847890	2847890	Yes	
6501	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201406870	IDP000046271	2016/01882	Yes	
6502	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	7570/CHENP/2014		7570/CHENP/2014	Yes	
6503	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-510518	5908654	2015-519827	Yes	
6504	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-057889	6367254	2016-136767	Yes	
6505	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7031521	10-1593358	10-2014-0143456	Yes	
6506	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7002781	10-1709901	10-2016-0018857	Yes	
6507	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7004027	10-1848217	10-2017-0020548	Yes	
6508	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/013084	339997	MX/A/2014/013084	Yes	
6509	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/008181	353136		Yes	
6510	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	137872776	2847890	2847890	Yes	
6511	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	137872776	2847890	2847890	Yes	
6512	ESTABLISHING OPERATING SYSTEM AND APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/711338	9526022	US-2014-0040504-A1	Yes	
6513	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	AU	2013297042	########	2013297042	Yes	
6514	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200331	########	2016200331	Yes	
6515	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	BR	112015000355-9		112015000355-9	Yes	
6516	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT USING OPERATING SYSTEM-SPECIFIC IDENTIFIERS	[redacted]	[redacted]	CNT	PAT-Active	US	15/373654	10390239	US-2017-0094025-A1	Yes	
6517	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	CA	2878215	2878215	2878215	Yes	
6518	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	UM	PAT-Active	DE	2020130124695	########		Yes	
6519	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	ES	P201331212	2473415	2473415	Yes	
6520	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	FI	20135806	125701	20135806	Yes	
6521	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6522	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	FR	1357654	2994361	2994361	Yes	
6523	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	DIV	APP-Pending	FR	1762872		3060787	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6524	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201500631	ID0000052668	2017/02503	Yes	
6525	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	184/CHENP/2015		184/CHENP/2015	Yes	
6526	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A001294	1419087	MI2013A001294	Yes	
6527	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7000081	10-1537138	10-2015-0022971	Yes	
6528	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7013894	10-1691342	10-2016-0075736	Yes	
6529	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/A/2015/000242	351137	MX/A/2015/000242	Yes	
6530	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	MY	PI2015700036	MY-158486-A		Yes	
6531	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	RU	2014153568	2605364	2014153568	Yes	
6532	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCD	PAT-Active	RU	2016144367	2656715		Yes	
6533	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	SE	1350932-8	540590	1350932	Yes	
6534	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	DIV	APP-Pending	SE	1850200-5		1850200	Yes	
6535	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	TW	102127618	I493996	201419896	Yes	
6536	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	US	13/721458	8958331	US-2014-0003302-A1	Yes	
6537	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	AU	2013287185	##########	2013287185	Yes	
6538	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	AU	2015249093	##########	2015249093	Yes	
6539	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	PAT-Active	BE	2014/0126	1023180		Yes	
6540	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	APP-Pending	BR	112014030155-7		112014030155-7	Yes	
6541	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	CNT	PAT-Active	US	14/605311	9106420	US-2015-0131496-A1	Yes	
6542	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	CNT	PAT-Active	US	14/723809	9673939	US-2015-0263826-A1	Yes	
6543	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	CNT	PAT-Active	US	15/614192	10027446	US-2017-0338916-A1	Yes	
6544	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	CA	2874463	2874463	2874463	Yes	
6545	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	CN	201310274598.9	ZL2013102745989	103532680	Yes	
6546	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	APP-Pending	CN	201610862592.7		106850129	Yes	
6547	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	APP-Pending	CN	201710708135.8		107592182	Yes	
6548	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PPD	APP-Pending	HK	18103265.2		1243881	Yes	
6549	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PPD	APP-Pending	HK	17107267.2		1233795	Yes	
6550	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	EPT	APP-Pending	EP	13813633.8		2868025	Yes	
6551	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	ETD	APP-Pending	EP	16219775.4		3131221	Yes	
6552	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	ES	P201330983	2447190	2447190	Yes	
6553	HARQ-ACK HANDLING FOR UNINTENDED DL SUBFRAMES IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	[redacted]	[redacted]	NP	PAT-Active	FI	20135724	127102	127102	Yes	
6554	HARQ-ACK HANDLING FOR UNINTENDED DL SUBFRAMES IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	[redacted]	[redacted]	DIV	APP-Pending	FI	20175940		20175940	Yes	
6555	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	FR	1356403	2992804	2992804	Yes	
6556	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201408273		2016/00840	Yes	
6557	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	APP-Pending	IN	8556/CHENP/2014		8556/CHENP/2014	Yes	
6558	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	IT	MI20134001102	1418634	MI2013A001102	Yes	
6559	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-515289	6050482	2015-524205	Yes	
6560	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-228325	6275802	2017-063479	Yes	
6561	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7033839	10-1702397	10-2015-0002897	Yes	
6562	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7002495	10-1801240	10-2017-0015543	Yes	
6563	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/014725	345505	MX/a/2014/014725	Yes	
6564	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2017/002378	364066		Yes	
6565	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6566	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	PAT-Active	NL	2012390	2012390	2012390	Yes	
6567	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	PAT-Active	RU	2014146570	2587872	2014146570	Yes	
6568	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	RU	2016123178	2659717	2016123178	Yes	
6569	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCD	PAT-Active	RU	2017131764	2682515	2017131764	Yes	
6570	HARQ-ACK HANDLING FOR UNINTENDED DL SUBFRAMES IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	[redacted]	[redacted]	NP	APP-Pending	SE	1350833-0		1350833	Yes	
6571	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	NP	PAT-Active	TW	102123379	I517625	201406096	Yes	
6572	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	PAT-Active	TW	104135843	I590614	201607268	Yes	
6573	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	DIV	PAT-Active	TW	106113133	I632787	201804748	Yes	
6574	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	NP	PAT-Active	US	13/755166	8989070	US-2014-0003313-A1	Yes	
6575	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0464	1021333		Yes	
6576	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	PCT	APP-Pending	BR	112014030156-5		112014030156-5	Yes	
6577	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	CNT	PAT-Active	US	14/665160	9432150	US-2015-0249958-A1	Yes	
6578	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	NP	PAT-Active	CN	201310273802.5	ZL2013102738025	103763694	Yes	
6579	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	DIV	APP-Pending	CN	201710656516.3		107493159	Yes	
6580	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	PPD	APP-Pending	HK	18101735.8		1242891	Yes	
6581	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	EP	13813471.3	2868009	2868009	Yes	
6582	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	AT	13813471.3	2868009	2868009	Yes	
6583	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	BE	13813471.3	2868009	2868009	Yes	
6584	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	CH	13813471.3	2868009	2868009	Yes	
6585	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	ETD	APP-Pending	EP	16195958.8		3142392	Yes	
6586	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	DE	13813471.3	##########	2868009	Yes	
6587	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	EE	13813471.3	2868009	2868009	Yes	
6588	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	ES	13813471.3	2868009	2868009	Yes	
6589	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	FR	13813471.3	2868009	2868009	Yes	
6590	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	GB	13813471.3	2868009	2868009	Yes	
6591	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	GR	13813471.3	2868009	2868009	Yes	
6592	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	HU	13813471.3	2868009	2868009	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6593	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	IE	138134713	2868009	2868009	Yes	
6594	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			EPT	PAT-Active	NL	138134713	2868009	2868009	Yes	
6595	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			EPT	PAT-Active	SK	138134713	2868009	2868009	Yes	
6596	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	ES	P201330992	2447340	2447340	Yes	
6597	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	FI	20135725	127414	20135725	Yes	
6598	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			DIV	APP-Pending	FI	20185380		20185380	Yes	
6599	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	FR	1356409	2992820	2992820	Yes	
6600	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	IT	MI2013A001105	1418215	MI2013A001105	Yes	
6601	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			PCT	PAT-Active	IB	2015-520298	5950244	2015-523028	Yes	
6602	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			PCT	PAT-Active	KR	10-2014-7033794	10-1618437	10-2015-0088438	Yes	
6603	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			PCD	PAT-Active	KR	10-2016-7007230	10-1957443	10-2016-0036091	Yes	
6604	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	NL	2011078	2011078	2011078	Yes	
6605	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	APP-Pending	SE	1350812-2		1350812	Yes	
6606	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			NP	PAT-Active	TW	102123181	I489893	201410051	Yes	
6607	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			DIV	PAT-Active	TW	104111623	I568291	201526845	Yes	
6608	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES			DIV	PAT-Active	TW	105137884	I610582	201734886	Yes	
6609	DEVICE-TO-DEVICE ON-DEMAND ADVERTISEMENT			NP	PAT-Active	US	13/713242	9055830	US-2014-0086792-A1		
6610	DEVICE-TO-DEVICE ON-DEMAND ADVERTISEMENT			PCT	PAT-Active	CN	201380035949X	ZL201380035949X	104471601		
6611	DEVICE-TO-DEVICE ADVERTISEMENT			EPT	PAT-Active	EP	138261581	2880616	2880616		
6612	DEVICE-TO-DEVICE ADVERTISEMENT			EPT	PAT-Active	DE	138261581	########	2880616		
6613	DEVICE-TO-DEVICE ADVERTISEMENT			EPT	PAT-Active	NL	138261581	2880616	2880616		
6614	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			NP	PAT-Active	US	13/687838	9191828	US-2014-0036876-A1	Yes	
6615	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			CNT	PAT-Active	US	14/883418	10405211	US-2016-0100441-A1	Yes	
6616	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			CNT	APP-Pending	US	16/522272			Yes	
6617	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			PCT	PAT-Active	CN	201380036526X	ZL201380036526X 105263	104429147	Yes	
6618	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			PCD	APP-Pending	CN	201610281426?		106028464	Yes	
6619	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			EPT	PAT-Active	EP	138259403	2880952	2880952	Yes	
6620	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			EPT	PAT-Active	DE	138259403	########	2880952	Yes	
6621	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			EPT	PAT-Active	FR	138259403	2880952	2880952	Yes	
6622	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			EPT	PAT-Active	GB	138259403	2880952	2880952	Yes	
6623	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			EPT	PAT-Active	NL	138259403	2880952	2880952	Yes	
6624	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS			FPD	APP-Pending	HK	16100420?		1226898	Yes	
6625	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS			NP	PAT-Active	CN	201310336123X	ZL201310336123X 361238	103582008	Yes	
6626	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS			EPT	APP-Pending	EP	138258955		2880784	Yes	
6627	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS			NP	PAT-Active	IT	MI2013A001289	1419075	MI2013A001289	Yes	
6628	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS			PCD	PAT-Active	KR	10-2016-7005515	10-1723031	10-2016-0031043	Yes	
6629	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS			NP	PAT-Active	SE	1350931-0	540741	1350931	Yes	
6630	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			NP	PAT-Active	US	13/796726	9106386	US-2014-0036796-A1		
6631	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	AT	138261177	2880778	2880778		
6632	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			CNT	PAT-Active	US	14/796830	9572063	US-2016-0100384-A1		
6633	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			PCT	PAT-Active	CN	201380036519X	ZL201380036519X 365199	104508985		
6634	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			PCD	APP-Pending	CN	201610533686X		105978677		
6635	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	DE	138261177	########	2880778		
6636	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	GB	138261177	2880778	2880778		
6637	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	EP	138261177	2880778	2880778		
6638	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			FTD	APP-Pending	EP	161771884		3034129		
6639	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	ES	138261177	2880778	2880778		
6640	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	FR	138261177	2880778	2880778		
6641	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	GB	138261177	2880778	2880778		
6642	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	GR	138261177	2880778	2880778		
6643	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			FPD	APP-Pending	HK	161132001		1226879		
6644	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	HU	138261177	2880778	2880778		
6645	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	NL	138261177	2880778	2880778		
6646	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT			EPT	PAT-Active	SK	138261177	2880778	2880778		
6647	APPARATUS FOR IMPROVED MOBILITY IN A WIRELESS HETEROGENEOUS NETWORK			NP	PAT-Active	US	13/795824	9055474	US-2013-0279378-A1		
6648	APPARATUS FOR IMPROVED MOBILITY IN A WIRELESS HETEROGENEOUS NETWORK			PCT	PAT-Active	CN	201380016956X	ZL201380016956X 369653	104205962		
6649	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	APP-Closed	CN	201380016814X		104170414		
6650	[redacted]										
6651	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	PAT-Active	ID	P00201405739	ID0000050894	2016/01414		
6652	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	APP-Pending	IN	6825/CHENP/2014		6825/CHENP/2014		
6653	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	PAT-Active	KR	10-2014-7026511	10-1624488	10-2014-0136459		
6654	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	PAT-Active	MX	MX/a/2014/011641	335912	MX/a/2014/011641		
6655	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS			PCT	PAT-Active	MY	PI20147026?2	MY-157279-A	PI20147026?2		
6656	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			PCT	PAT-Active	AU	2013297032	########	2013297032	Yes	
6657	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			PCD	PAT-Active	AU	2016259437	########	2016259437	Yes	
6658	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			NP	PAT-Active	BE	2013/0525	1021052		Yes	
6659	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			PCT	APP-Pending	BR	112015000118-3		112015000118-1	Yes	
6660	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			PCT	PAT-Active	CA	2880885	2880885	2880885	Yes	
6661	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK			NP	PAT-Active	CN	201310307950Z	ZL201310307950Z 706802	103581861	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6662	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	ES	P201331214	2445833	2445833	Yes	
6663	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	ES	P201630721	2582612	2582612	Yes	
6664	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	FI	20135812	127573	20135812	Yes	
6665	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	FR	1357735	2986402	2986402	Yes	
6666	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Pending	FR	1755256		3052628	Yes	
6667	USE EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRLESS NETWORK	[redacted]	[redacted]	EPR	PAT-Active	HK	1410824.3	1194905	1194905	Yes	
6668	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201500021		2017/01349	Yes	
6669	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	185/CHENP/2015		185/CHENP/2015	Yes	
6670	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A001329	1419085	MI2013A001329	Yes	
6671	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-524259		2015-523041	Yes	
6672	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7036978	10-1734434	10-2015-0040815	Yes	
6673	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/000150	345829	MX/a/2015/000150	Yes	
6674	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6675	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2015700013		PI2015700013	Yes	
6676	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	NL	2011264	2011264	2011264	Yes	
6677	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	RU	2015103527	2613174	2015103527	Yes	
6678	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	RU	2017100539	2649311	0002649311	Yes	
6679	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	SE	1350934-4	537630	1350934	Yes	
6680	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	SE	1550515-9	537955	1550515	Yes	
6681	USER EQUIPMENT AND METHOD FOR SIGNALING USER EQUIPMENT ASSISTANCE INFORMATION IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	102127973	494014	201419923	Yes	
6682	USER EQUIPMENT AND METHOD FOR SIGNALING USER EQUIPMENT ASSISTANCE INFORMATION IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	104117942	I593301	201535997	Yes	
6683	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	US	13/735952	9246618	US-2013-0303166-A1	Yes	
6684	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	AT	137873584	2848046	2848046	Yes	
6685	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0922	1021375		Yes	
6686	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	APP-Pending	BR	112014028078-9		112014028078-9	Yes	
6687	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	CNT	PAT-Active	US	14/528747	10327207	US-2015-0056994-A1	Yes	
6688	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	CN	201310174365.1	ZL2013101743651	103428890	Yes	
6689	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	APP-Pending	CN	201510144783.5		104703119	Yes	
6690	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	APP-Pending	CN	201710207912		107277744	Yes	
6691	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	FPD	APP-Pending	HK	17112626.6		1238848	Yes	
6692	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	DE	137873584	8888888	2848046	Yes	
6693	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	EE	137873584	2848046	2848046	Yes	
6694	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	EP	137873584	2848046	2848046	Yes	
6695	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	ETD	APP-Pending	EP	16202532		3160187	Yes	
6696	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	ES	137873584	2848046	2848046	Yes	
6697	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	FI	20135471	127164	20135471	Yes	
6698	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	APP-Pending	FI	20165907		20165907	Yes	
6699	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	APP-Pending	FR	1354135		2990588	Yes	
6700	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	FR	137873584	2848046	2848046	Yes	
6701	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	GB	137873584	2848046	2848046	Yes	
6702	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	GR	137873584	2848046	2848046	Yes	
6703	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	FPD	APP-Pending	HK	15107789.3		1207238	Yes	
6704	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	HU	137873584	2848046	2848046	Yes	
6705	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	APP-Pending	IN	7571/CHENP/2014		7571/CHENP/2014	Yes	
6706	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000769	1417744	MI2013A000769	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6707	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-509220	6048778	2015-520965	Yes	
6708	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7030503	10-1671695	10-2015-0002721	Yes	
6709	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7029802	10-1768834	10-2016-0127188	Yes	
6710	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7022147	10-1913058	10-2017-0094557	Yes	
6711	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	NL	2010738	2010738	2010738	Yes	
6712	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	NL	137873584	2848046	2848046	Yes	
6713	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	PAT-Active	NL	2015011	2015011	2015011	Yes	
6714	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	PAT-Active	RU	2014141604	2606567	2014141604	Yes	
6715	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCD	PAT-Active	RU	2016148414	2658643	002658643	Yes	
6716	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	SE	1350578-9	538520	1350578	Yes	
6717	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	DIV	APP-Pending	SE	1551658-6		1551658	Yes	
6718	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	PAT-Active	SK	137873584	2848046	2848046	Yes	
6719	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL PROVIDED BY AN EVOLVED NODE B (ENB)	[redacted]	[redacted]	NP	PAT-Active	TW	102113971	I575484	201406195	Yes	
6720	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL PROVIDED BY AN EVOLVED NODE B (ENB)	[redacted]	[redacted]	DIV	PAT-Active	TW	105140445	I640211	201717690	Yes	
6721	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/730289	9083479	US-2013-0301548-A1	Yes	
6722	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	AU	2013259173	########	2013259173	Yes	
6723	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0329	1021114		Yes	
6724	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	BE	2013/0771	1021177		Yes	
6725	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	BR	112014025382-0		112014025382	Yes	
6726	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/054206	9154251	US-2014-0048076-A1	Yes	
6727	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/854282	9356724	US-2015-0365937-A1	Yes	
6728	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/144117	9736780	US-2016-0261387-A1	Yes	
6729	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CA	2871120	2871120	2871120	Yes	
6730	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	201310174363	ZL2013101 743401	103391577	Yes	
6731	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	CN	201310572255	ZL2013105 72255	103561479	Yes	
6732	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	CN	201610365764	ZL2016103 65764	105846965	Yes	
6733	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	137883229	2847885	2847885	Yes	
6734	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	137883229	2847885	2847885	Yes	
6735	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	137883229	2847885	2847885	Yes	
6736	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	137883229	2847885	2847885	Yes	
6737	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	EP	181697608	3373479	3373479	Yes	
6738	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	DE	181697608	########	3373479	Yes	
6739	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	FR	181697608	3373479	3373479	Yes	
6740	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	GB	181697608	3373479	3373479	Yes	
6741	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	NL	181697608	3373479	3373479	Yes	
6742	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	137883229	2847885	2847885	Yes	
6743	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	137883229	2847885	2847885	Yes	
6744	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	137883229	2847885	2847885	Yes	
6745	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	137883229	2847885	2847885	Yes	
6746	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	137883229	2847885	2847885	Yes	
6747	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	137883229	2847885	2847885	Yes	
6748	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	137883229	2847885	2847885	Yes	
6749	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IE	137883229	2847885	2847885	Yes	
6750	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	137883229	2847885	2847885	Yes	
6751	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	137883229	2847885	2847885	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6752	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	ES	P201330670	2463167	2463167	Yes	
6753	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	ES	P201331649	2465465	2465465	Yes	
6754	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	FI	20135472	125879	20135472	Yes	
6755	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	FI	20136094	126835	20136094	Yes	
6756	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	FI	20165303	127309	20165303	Yes	
6757	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	FR	1354220	2990583	2990583	Yes	
6758	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	FR	1361056	2996972	2996972	Yes	
6759	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	PAT-Active	HK	14102028S	1188896	1188896	Yes	
6760	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	PAT-Active	HK	14104788?	1191790	1191790	Yes	
6761	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	1713012620		1228118	Yes	
6762	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201406893		2015/04476	Yes	
6763	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	IN	7572/CHENP/2014		7572/CHENP/2014	Yes	
6764	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A000770	1417745	MI2013A000770	Yes	
6765	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	IT	MI2013A001879	1419273	MI2013A001879	Yes	
6766	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7031592	10-1531036	10-2014-0146653	Yes	
6767	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2016-7015216		10-2016-0070849	Yes	
6768	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/012710	337813	MX/a/2014/012710	Yes	
6769	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2014703068		PI2014703068	Yes	
6770	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	NL	2010774	2010774	2010774	Yes	
6771	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	NL	2011790	2011790	2011790	Yes	
6772	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	SE	1350559-9	537655	1350559	Yes	
6773	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	SE	1351336-1	537824	1351336	Yes	
6774	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	102113447	I517645	201348817	Yes	
6775	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	102140833	I517648	201408017	Yes	
6776	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	104139678	I589613	201633756	Yes	
6777	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR A DIRECT COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480005517	ZL2014800055178	105075362		
6778	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR A DIRECT COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14703280S		2962503		
6779	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR A DIRECT COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16105119?		1227851		
6780	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	13/803241	9344885	US-2014-0273954-A1		
6781	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/133758	9622083	US-2016-0234692-A1		
6782	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480007791X	ZL2014800077911X	104982054		
6783	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	EP	14705051?	2974421	2974421		
6784	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	AT	14705051?	2974421	2974421		
6785	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	BE	14705051?	2974421	2974421		
6786	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	CH	14705051?	2974421	2974421		
6787	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	DE	14705051?	########	2974421		
6788	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	EE	14705051?	2974421	2974421		
6789	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	ES	14705051?	2974421	2974421		
6790	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	FR	14705051?	2974421	2974421		
6791	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	GB	14705051?	2974421	2974421		
6792	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	GR	14705051?	2974421	2974421		
6793	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	HU	14705051?	2974421	2974421		
6794	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	IE	14705051?	2974421	2974421		
6795	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	NL	14705051?	2974421	2974421		
6796	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	PAT-Active	SK	14705051?	2974421	2974421		
6797	FAST HANDOVER METHOD FOR CROSS SECTOR SCENARIO IN MOBILE COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/832947	9313700	US-2014-0274052-A1		
6798	FAST HANDOVER METHOD FOR CROSS SECTOR SCENARIO IN MOBILE COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	15/064804	9526042	US-2016-0302111-A1		
6799	FAST HANDOVER METHOD FOR CROSS SECTOR SCENARIO IN MOBILE COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	DE	102014003735	########	102014003735		
6800	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	NP	PAT-Active	US	13/779864	9088907	US-2014-0243039-A1	Yes	
6801	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	CNT	PAT-Active	US	14/609364	9380625	US-2015-0215984-A1	Yes	
6802	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	CNT	PAT-Active	US	15/145370	9949306	US-2016-0278154-A1	Yes	
6803	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	CNT	PAT-Active	US	15/905423	10383161	US-2018-0249522-A1	Yes	
6804	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480003490?	ZL2014800034902	105009675	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6805	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	EPT	APP-Pending	EP	147021992		2962511	Yes	
6806	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	FPR	APP-Pending	HK	161003953		1212540	Yes	
6807	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	FPR	APP-Pending	HK	161048317		1216965	Yes	
6808	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	NP	PAT-Active	US	13/853404	9094960	US-2013-0322358-A1		
6809	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800227678	ZL2013800 227678	104303446		
6810	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	APP-Pending	EP	137962833		2856685		
6811	DYNAMIC SELECTION OF SPECTRUM ACCESS IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	NP	PAT-Active	US	13/736177	9565658	US-2014-0192685-A1		
6812	DYNAMIC SELECTION OF SPECTRUM ACCESS IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	EPT	APP-Pending	EP	147375745		2944041		
6813	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
6814	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
6815	RFI MITIGATION VIA DUTY CYCLE CONTROL	[redacted]	[redacted]	NP	PAT-Active	DE	1020140013995	########	102014001399		
6816	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	13/729117	8913518	US-2014-0185467-A1	Yes	
6817	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/570555	9374783	US-2015-0173016-A1	Yes	
6818	APPARATUS OF USER EQUIPMENT (UE) CONFIGURABLE FOR CONNECTIVITY WITH MULTIPLE CELL GROUPS	[redacted]	[redacted]	CNT	PAT-Active	US	15/176433	9686817	US-2016-0286604-A1	Yes	
6819	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/588176	10405371	US-2017-0245320-A1	Yes	
6820	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/519699		20200022210		
6821	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800357900	ZL2013800 357900	104412524	Yes	
6822	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	PCD	APP-Pending	CN	2018102397748		108495334	Yes	
6823	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	FPD	APP-Pending	HK	181137139		1254504	Yes	
6824	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EP	138252531	2880781	2880781	Yes	
6825	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	AT	138252531	2880781	2880781	Yes	
6826	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	BE	138252531	2880781	2880781	Yes	
6827	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	CH	138252531	2880781	2880781	Yes	
6828	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	DE	138252531	2880781	2880781	Yes	
6829	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EE	138252531	2880781	2880781	Yes	
6830	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	ES	138252531	2880781	2880781	Yes	
6831	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	FR	138252531	2880781	2880781	Yes	
6832	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GB	138252531	2880781	2880781	Yes	
6833	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GR	138252531	2880781	2880781	Yes	
6834	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	HU	138252531	2880781	2880781	Yes	
6835	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	IE	138252531	2880781	2880781	Yes	
6836	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	NL	138252531	2880781	2880781	Yes	
6837	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	SK	138252531	2880781	2880781	Yes	
6838	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	NP	PAT-Active	US	13/828781	10098020	US-2014-0038623-A1		
6839	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800359111	ZL2013800 359111	104412521		
6840	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	EPT	PAT-Active	EP	138252440	2880777	2880777		
6841	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	EPT	PAT-Active	DE	138252440	########	2880777		
6842	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	EPT	PAT-Active	FR	138252440	2880777	2880777		
6843	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	EPT	PAT-Active	GB	138252440	2880777	2880777		
6844	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	EPT	PAT-Active	NL	138252440	2880777	2880777		
6845	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/688794	9544801	US-2014-0036664-A1	Yes	
6846	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	AU	2013296991	########	2013296991	Yes	
6847	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	AU	2016203409	########	2016203409	Yes	
6848	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0524	1021051		Yes	
6849	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	BR	112015000462-8		112015000462-8	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6850	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	BR	122016026467-0		122016026467-0	Yes	
6851	PERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING USING A PHYSICAL UPLINK CONTROL CHANNEL (PUCCH)	[redacted]	[redacted]	CNT	PAT-Active	US	14/145112	9554297	US-2014-0112300-A1	Yes	
6852	PERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING USING A PHYSICAL UPLINK CONTROL CHANNEL (PUCCH)	[redacted]	[redacted]	CNT	PAT-Active	US	15/391313	10470067	US-2017-0111898-A1	Yes	
6853	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CA	2878195		2878195	Yes	
6854	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	CA	2926378		2926378	Yes	
6855	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	CN	2013103709439	ZL2013103 709439	103582003	Yes	
6856	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	DIV	APP-Pending	CN	2016108555233		107105400	Yes	
6857	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	171114075		1238057	Yes	
6858	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	138261235	2880899	2880899	Yes	
6859	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	138261235	2880899	2880899	Yes	
6860	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	138261235	2880899	2880899	Yes	
6861	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	138261235	2880899	2880899	Yes	
6862	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	171701212		3223554	Yes	
6863	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	138261235	########	2880899	Yes	
6864	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	138261235	2880899	2880899	Yes	
6865	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	138261235	2880899	2880899	Yes	
6866	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	138261235	2880899	2880899	Yes	
6867	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	138261235	2880899	2880899	Yes	
6868	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	138261235	2880899	2880899	Yes	
6869	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	138261235	2880899	2880899	Yes	
6870	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	138261235	2880899	2880899	Yes	
6871	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	138261235	2880899	2880899	Yes	
6872	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	138261235	2880899	2880899	Yes	
6873	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	ES	P201331229	2513041	2513041	Yes	
6874	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	FI	20135813		20135813	Yes	
6875	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	FR	1357753	2994365	2994365	Yes	
6876	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	FR	1751060	3047629	3047629	Yes	
6877	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201500489		2017/01552	Yes	
6878	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	186/CHENP/2015		186/CHENP/2015	Yes	
6879	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	IT	MI2013A001330	1419086	MI2013A001330	Yes	
6880	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-521643	6162235	2015-527810	Yes	
6881	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-116604	6466515	2017-184284	Yes	
6882	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7026628	10-1766615	10-2016-0116042	Yes	
6883	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7020397	10-1872175	10-2017-0089029	Yes	
6884	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/A/2015/000956	348544	MX/A/2015/000956	Yes	
6885	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6886	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
6887	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	NL	2011265	2011265	2011265	Yes	
6888	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	RU	2014153497	2610470	2014153497	Yes	
6889	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	TW	102127938	I535253	201412065	Yes	
6890	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	DIV	PAT-Active	TW	105105918	I623222	201631941	Yes	
6891	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	13/718745	9036603	US-2014-0036793-A1	Yes	
6892	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	CNT	PAT-Active	US	14/695930	10111118	US-2015-0305077-A1	Yes	
6893	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	CNT	PAT-Active	US	15/868247	10425846	US-2018-0234866-A1	Yes	
6894	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800353948	ZL2013800 353948	104412698	Yes	
6895	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCD	APP-Pending	CN	2016101460425		105848088	Yes	
6896	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	EP	138264783	2880956	2880956	Yes	
6897	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	ETD	APP-Pending	EP	161648316		3060028	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6898	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	DE	138264783	########	2880956	Yes	
6899	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	FR	138264783	2880956	2880956	Yes	
6900	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	GB	138264783	2880956	2880956	Yes	
6901	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	NL	138264783	2880956	2880956	Yes	
6902	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	FPD	APP-Pending	HK	171014192		1228156	Yes	
6903	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-524265	5928860	2015-527000	Yes	
6904	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-017086	6195635	2016-129351	Yes	
6905	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7000080	10-1618534	10-2015-0023628	Yes	
6906	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7004953	10-1753545	10-2016-0028506	Yes	
6907	USER EQUIPMENT EVOLVED NODE B AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/716919	9544099	US-2014-0003319-A1		
6908	USER EQUIPMENT EVOLVED NODE B AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800291119	ZL2013800291119	104737562		
6909	USER EQUIPMENT EVOLVED NODE B AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	138132378		2868124		
6910	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
6911	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
6912	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	PAT-Active	US	13/997741	9681428	US-2014-0254504-A1		
6913	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	PAT-Active	BE	2013/0503	1020890	1020890	Yes	
6914	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-516247	6058793	2015-525525	Yes	
6915	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	PAT-Active	TW	102125395	I520537	201409980	Yes	
6916	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	NP	PAT-Active	US	13/853390	9088977	US-2013-0322357-A1		
6917	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380022795X	ZL201380022795X	104272689		
6918	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	EP	137971081	2856723	2856723		
6919	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	DE	137971081	########	2856723		
6920	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	FR	137971081	2856723	2856723		
6921	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	GB	137971081	2856723	2856723		
6922	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	NL	137971081	2856723	2856723		
6923	MEASUREMENT OF NODES IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/853398	9094855	US-2013-0322273-A1		
6924	MEASUREMENT OF NODES IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800245587	ZL2013800245587	104272790		
6925	MEASUREMENT OF NODES IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	137976361		2856795		
6926	COMMUNICATION CONTROLLER AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	NP	PAT-Active	US	13/792595	9591617	US-2014-0254498-A1		
6927	COMMUNICATION CONTROLLER AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800073265		104969614		
6928	EPHEMERAL IDENTITY FOR DEVICE AND SERVICE DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	13/712304	9883388	US-2014-0162601-A1		
6929	EPHEMERAL IDENTITY FOR DEVICE AND SERVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800590854	ZL2013800590854	104823471		
6930	EPHEMERAL IDENTITY FOR DEVICE AND SERVICE DISCOVERY	[redacted]	[redacted]	EPT	APP-Pending	EP	138617576		2932749		
6931	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6932	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6933	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6934	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6935	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6936	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	NP	PAT-Active	US	13/721776	9462436	US-2014-0179279-A1		
6937	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800592525	ZL2013800592525	104798434		
6938	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	PCD	APP-Pending	CN	2017100032862		107071722		
6939	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	EPT	PAT-Active	EP	138640099	2936921	2936921		
6940	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	ETD	APP-Pending	EP	171738289		3232697		
6941	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	EPT	PAT-Active	DE	138640099	2936921	2936921		
6942	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	EPT	PAT-Active	FR	138640099	2936921	2936921		
6943	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	EPT	PAT-Active	GB	138640099	2936921	2936921		
6944	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	EPT	PAT-Active	NL	138640099	2936921	2936921		
6945	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	NP	PAT-Active	US	13/728186	9526083	US-2014-0187272-A1		
6946	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	CNT	APP-Pending	US	15/371120		US-2017-0238241-A1		
6947	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800617787	ZL2013800617787	104813715		
6948	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	PCD	APP-Pending	CN	2017102610246		107182108		
6949	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	EPT	PAT-Active	EP	138689104	2939472	2939472		
6950	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	ETD	APP-Pending	EP	171646276		3206439		
6951	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	EPT	PAT-Active	DE	138689104	2939472	2939472		
6952	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	EPT	PAT-Active	FR	138689104	2939472	2939472		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
6953	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	EPT	PAT-Active	GB	138689104	2939472	2939472		
6954	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	EPT	PAT-Active	NL	138689104	2939472	2939472		
6955	LOCATION-BASED SELECTION OF WIRELESS PERIPHERAL DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/726375	10075814	US-2014-0179230-A1		
6956	LOCATION-BASED SELECTION OF WIRELESS PERIPHERAL DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800601083	ZL2013800 601083	104798418		
6957	LOCATION-BASED SELECTION OF WIRELESS PERIPHERAL DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	138668751		2936895		
6958	CURRENT RE-USING WIDEBAND LOW-NOISE ACTIVE BALUN	[redacted]	[redacted]	NP	PAT-Active	US	13/795957	9048789	US-2014-0266469-A1		
6959	CURRENT RE-USING WIDEBAND LOW-NOISE ACTIVE BALUN	[redacted]	[redacted]	CNT	PAT-Active	US	14/727262	9281787	US-2015-0263682-A1		
6960	CURRENT RE-USING WIDEBAND LOW-NOISE ACTIVE BALUN	[redacted]	[redacted]	NP	APP-Pending	DE	1020141030699		102014103069		
6961	SYSTEMS AND METHODS UTILIZING ADAPTIVE ENVELOPE TRACKING	[redacted]	[redacted]	NP	PAT-Active	US	13/945096	9166830	US-2015-0023445-A1		
6962	SYSTEMS AND METHODS UTILIZING ADAPTIVE ENVELOPE TRACKING	[redacted]	[redacted]	CNT	PAT-Active	US	14/842104	9413299	US-2015-0372647-A1		
6963	SYSTEMS AND METHODS UTILIZING ADAPTIVE ENVELOPE TRACKING	[redacted]	[redacted]	NP	PAT-Active	CN	2014103432844	ZL2014103 432844	104300915		
6964	SYSTEMS AND METHODS UTILIZING ADAPTIVE ENVELOPE TRACKING	[redacted]	[redacted]	DIV	PAT-Active	CN	2016106089821	ZL2016106 089821	106301239		
6965	SYSTEMS AND METHODS UTILIZING ADAPTIVE ENVELOPE TRACKING	[redacted]	[redacted]	NP	APP-Pending	DE	1020140103374		102014010337		
6966	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
6967	RADIO FREQUENCY DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	13/833031	8854242	US-2014-0269976-A1		
6968	RADIO FREQUENCY DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	CNT	PAT-Active	US	14/446534	9024796	US-2014-0341322-A1		
6969	RADIO FREQUENCY DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	DE	1020141033620	########	102014103362		
6970	PUSH-PULL AMPLIFIER WITH QUIESCENT CURRENT ADJUSTER	[redacted]	[redacted]	NP	APP-Pending	DE	1020140014673		102014001467		
6971	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	FPD	PAT-Active	HK	111057819	1151931	1151931		
6972	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	PAT-Active	IL	156935	156935	156935		
6973	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	PAT-Active	IL	195538	195538	195538		
6974	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	PAT-Active	IL	205827	205827	205827		
6975	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	PAT-Active	IL	207057	207057	207057		
6976	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	PAT-Active	JP	2012-186900	5905365	2013-031194		
6977	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2003/006815	240433			
6978	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	989327945	990354	990354		
6979	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE NBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	REX	PAT-Active	US	90/008990	6151332			
6980	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Active	EP	989327846	990365	990365		
6981	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	10/179121	7602749	US-2002-0163898-A1	Yes	
6982	SYSTEM AND METHOD FOR MAINTAINING TIMING OF SYNCHRONIZATION MESSAGES OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CIP	PAT-Active	US	09/997732	7936728	US-2002-0080742-A1	Yes	
6983	SYSTEM AND METHOD FOR CONTROLLING SIGNAL STRENGTH OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CIP	PAT-Active	US	09/997733	7496072	US-2002-0071409-A1	Yes	
6984	SYSTEM AND METHOD FOR MAINTAINING TIMING OF SYNCHRONIZATION MESSAGES OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	10/895591	7773566	US-2005-0013284-A1	Yes	
6985	VARIABLE RATE CODING FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/859254	9306703	US-2013-0223429-A1	Yes	
6986	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCT	PAT-Active	CA	2365641	2365641	2365641	Yes	
6987	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	PAT-Active	CA	2707697	2707697	2707697	Yes	
6988	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	DIV	PAT-Active	CA	2781631	2781631	2781631	Yes	
6989	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	PAT-Active	CA	2876481	2876481	2876481	Yes	
6990	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	DE	9146689	60007090	1159786	Yes	
6991	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	DK	9146689	1159786	1159786	Yes	
6992	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	EP	9146689	1159786	1159786	Yes	
6993	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	ES	9146689	1159786	1159786	Yes	
6994	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	FI	9146689	1159786	1159786	Yes	
6995	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	FR	9146689	1159786	1159786	Yes	
6996	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	GB	9146689	1159786	1159786	Yes	
6997	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	IT	9146689	########	1159786	Yes	
6998	FORWARDED ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	PAT-Active	JP	2010-105127	4971481	2010-193512	Yes	
6999	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-075785	6242837	2015-144488	Yes	
7000	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	PAT-Active	JP	2011-280151	5562930	2012-100310	Yes	
7001	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2001-7011295	10-0692228	10-2001-0102505	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7002	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	NL	9146689	1159786	1159786	Yes	
7003	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCT	PAT-Active	NO	20014279	334405	20014279	Yes	
7004	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	EPT	PAT-Active	SE	9146689	1159786	1159786	Yes	
7005	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	NP	PAT-Active	US	09/447022	6785323			
7006	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	CNT	PAT-Active	US	10/890485	7426241	US-2005-0018635-A1		
7007	VARIABLE RATE CODING FOR A FORWARD AND REVERSE LINK	[redacted]	[redacted]	CNT	PAT-Active	US	12/210754	8194783	US-2009-0010368-A1		
7008	SUBSCRIBER UNIT AND METHOD FOR VARIABLE FORWARD ERROR CORRECTION (FEC) DECODING	[redacted]	[redacted]	CNT	PAT-Active	US	12/326687	8204140	US-2009-0135950-A1		
7009	VARIABLE RATE CODING FOR FORWARD AND REVERSE LINK	[redacted]	[redacted]	CNT	PAT-Active	US	14/183183	9294222	US-2014-0181622-A1		
7010	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES IN CDMA SYSTEM	[redacted]	[redacted]	CIP	PAT-Active	US	09/773253	6973140	US-2001-0048709-A1		
7011	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/531359	6600772	6600772		
7012	USER EQUIPMENT USING COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/831902	6928102	US-2004-0196890-A1		
7013	MAINTENANCE OF CHANNEL USAGE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	13/211853	8908652	US-2011-0299506-A1	Yes	
7014	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/532348	6597723			
7015	USER EQUIPMENT UTILIZING WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/082885	6577668	US-2002-0080762-A1		
7016	METHOD OF EMPLOYING WEIGHTED OPEN LOOP POWER CONTROL IN A BASE STATION	[redacted]	[redacted]	CNT	PAT-Active	US	10/083212	6584139	US-2002-0080786-A1		
7017	METHOD OF EMPLOYING WEIGHTED OPEN LOOP POWER CONTROL FOR A USER EQUIPMENT	[redacted]	[redacted]	CNT	PAT-Active	US	10/083239	6590927	US-2002-0080853-A1		
7018	BASE STATION UTILIZING A WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/083240	6577669	US-2002-0085504-A1		
7019	USER EQUIPMENT UTILIZING WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/446639	6845172	US-2003-0193916-A1		
7020	WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/755649	6956889	US-2004-0141467-A1		
7021	WEIGHTED OPEN LOOP POWER CONTROL TRANSMITTER CROSS REFERENCE TO RELATED APPLICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	11/978298	7532659	US-2008-0063029-A1		
7022	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2001/008711	240121	PA/a/2001/008711		
7023	COMBINED CLOSED-LOOP/OPEN-LOOP POWER CONTROL PROCESS FOR TIME DIVISION DUPLEXING	[redacted]	[redacted]	NP	APP-Pending	VE	589-2000		589-2000		
7024	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	AT	101843829	2285167	2285167	Yes	
7025	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	BE	101843829	2285167	2285167	Yes	
7026	USER EQUIPMENT METHOD EMPLOYING A TIME DIVISION DUPLEX TECHNIQUE	[redacted]	[redacted]	CNT	PAT-Active	US	10/080482	6597734	US-2002-0080764-A1	Yes	
7027	METHOD FOR OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL APPARATUS EMPLOYED BY A BASE STATION	[redacted]	[redacted]	CNT	PAT-Active	US	10/081809	6600773	US-2002-0080765-A1	Yes	
7028	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	10/755759	6993063	US-2004-0141483-A1	Yes	
7029	USER EQUIPMENT FOR CONTROLLING TRANSMISSION POWER LEVELS	[redacted]	[redacted]	CNT	PAT-Active	US	12/330912	8842711	US-2009-0080496-A1	Yes	
7030	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	CH	101843829	2285167	2285167	Yes	
7031	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	DE	101843829	########	2285167	Yes	
7032	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	EP	101843829	2285167	2285167	Yes	
7033	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	ES	101843829	2285167	2285167	Yes	
7034	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	FR	101843829	2285167	2285167	Yes	
7035	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	GB	101843829	2285167	2285167	Yes	
7036	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	GR	101843829	2285167	2285167	Yes	
7037	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	PAT-Active	HK	111085385	1154449	1154449	Yes	
7038	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	IE	101843829	2285167	2285167	Yes	
7039	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	IL	145026	145026	145026	Yes	
7040	USER EQUIPMENT FOR A SPREAD SPECTRUM TIME DIVISION DUPLEX COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	IL	177241	177241	177241	Yes	
7041	USER EQUIPMENT FOR A SPREAD SPECTRUM TIME DIVISION DUPLEX COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	IL	200072	200072	200072	Yes	
7042	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	MX	PA/a/2005/011856	253945		Yes	
7043	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	MY	PI20001120	MY-128631-A		Yes	
7044	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	NL	101843829	2285167	2285167	Yes	
7045	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	VE	590-2000		590-2000	Yes	
7046	MINIMAL MAINTENANCE LINK TO SUPPORT SYNCHRONIZATION	[redacted]	[redacted]	NP	PAT-Active	US	09/778474	8175120	US-2001-0036200-A1	Yes	
7047	MINIMAL MAINTENANCE LINK TO SUPPORT SYNCHRONIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/355575	8509268	US-2012-0093131-A1	Yes	
7048	MINIMAL MAINTENANCE LINK TO SUPPORT SYNCHRONIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	13/938500	9301274	US-2013-0301636-A1	Yes	
7049	MINIMAL MAINTENANCE LINK TO SUPPORT SYNCHRONIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/081747	9807714	US-2016-0212720-A1	Yes	
7050	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	NP	PAT-Active	US	09/594112	6463074			
7051	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	CIP	PAT-Active	US	10/266079	6845104	US-2003-0165155-A1		
7052	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	CNT	PAT-Active	US	11/022353	8462689	US-2005-0105547-A1		
7053	TIME-SLOTTED DATA PACKETS WITH A PREAMBLE	[redacted]	[redacted]	NP	PAT-Active	US	09/845240	6925070	US-2002-0013135-A1	Yes	
7054	TIME-SLOTTED DATA PACKETS WITH A PREAMBLE	[redacted]	[redacted]	CNT	PAT-Active	US	11/189529	7889702	US-2005-0271028-A1	Yes	
7055	TIME-SLOTTED DATA PACKETS WITH A PREAMBLE	[redacted]	[redacted]	CNT	PAT-Active	US	13/026865	8467353	US-2011-0194537-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7056	TIME-SLOTTED DATA PACKETS WITH A PREAMBLE	[redacted]		CNT	PAT-Active	US	13/891427	9237209	US-2013-0242950-A1	Yes	
7057	TIME-SLOTTED DATA PACKETS WITH A PREAMBLE	[redacted]		CNT	PAT-Active	US	14/695446	9398120	US-2015-0229743-A1	Yes	
7058	ANTENNA CONTROL SYSTEM AND METHOD	[redacted]		NP	PAT-Active	US	09/999172	8155096		Yes	
7059	ANTENNA CONTROL SYSTEM AND METHOD	[redacted]		CNT	PAT-Active	US	13/442513	8437330	US-2012-0201199-A1	Yes	
7060	ANTENNA CONTROL SYSTEM AND METHOD	[redacted]		CNT	PAT-Active	US	13/862149	9225395	US-2013-0230025-A1	Yes	
7061	ANTENNA CONTROL SYSTEM AND METHOD	[redacted]		CNT	PAT-Active	US	14/877687	9924468	US-2016-0029327-A1	Yes	
7062	ANTENNA CONTROL SYSTEM AND METHOD	[redacted]		CNT	PAT-Active	US	15/170565	9775115	US-2016-0278020-A1	Yes	
7063	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]		NP	PAT-Active	US	09/775304	6954448	US-2002-0101839-A1	Yes	
7064	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]		CNT	PAT-Active	US	11/235725	7502351	US-2006-0018293-A1	Yes	
7065	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]		CNT	PAT-Active	US	12/400872	8274954	US-2009-0175249-A1	Yes	
7066	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]		CNT	PAT-Active	US	14/201455	9325477	US-2014-0185570-A1	Yes	
7067	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]		CNT	PAT-Active	US	15/130706	10153885	US-2016-0234001-A1	Yes	
7068	USE OF CORRELATION COMBINATION TO ACHIEVE CHANNEL DETECTION	[redacted]		CIP	PAT-Active	US	10/119522	7551663		Yes	
7069	METHODS APPARATUSES AND SYSTEMS FOR SELECTIVE TRANSMISSION OF TRAFFIC DATA USING ORTHOGONAL SEQUENCES	[redacted]		CNT	PAT-Active	US	13/306547	8638877	US-2012-0218985-A1	Yes	
7070	USE OF CORRELATION COMBINATION TO ACHIEVE CHANNEL DETECTION	[redacted]		CNT	PAT-Active	US	14/137099	9247510	US-2014-0177608-A1	Yes	
7071	USE OF CORRELATION COMBINATION TO ACHIEVE CHANNEL DETECTION	[redacted]		CNT	PAT-Active	US	14/952474	10064144	US-2016-0081048-A1	Yes	
7072	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		NP	PAT-Active	US	09/998885	6894995	US-2003-0031162-A1	Yes	
7073	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	DE	27463066	60220409	1407566	Yes	
7074	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	EP	27463066	1407566	1407566	Yes	
7075	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	FI	27463066	1407566	1407566	Yes	
7076	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	FR	27463066	1407566	1407566	Yes	
7077	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	GB	27463066	1407566	1407566	Yes	
7078	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	IT	27463066	########	1407566	Yes	
7079	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCT	PAT-Active	JP	2003-507988	3962016	2004-533784	Yes	
7080	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCT	PAT-Active	KR	10-2003-7016571	10-0703645		Yes	
7081	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCT	PAT-Active	MX	PA/a/2003/011879	241233	PA/a/2003/011879	Yes	
7082	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]		EPT	PAT-Active	SE	27463066	1407566	1407566	Yes	
7083	AN APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		NP	PAT-Active	TW	91108598	I239779		Yes	
7084	AN APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		DIV	PAT-Active	TW	92127555	I276316	200421763	Yes	
7085	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		NP	PAT-Active	US	09/847860	6853646	US-2002-0163894-A1	Yes	
7086	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	11/053092	7289469	US-2005-0136923-A1	Yes	
7087	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	11/978309	8218562	US-2008-0056185-A1	Yes	
7088	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	13/533708	8718004	US-2012-0269177-A1	Yes	
7089	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	14/245366	9363806	US-2014-0219258-A1	Yes	
7090	FAST SWITCHING OF FORWARD LINK IN WIRELESS SYSTEM	[redacted]		CNT	PAT-Active	US	14/618712	9648602	US-2015-0156755-A1	Yes	
7091	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		CIP	PAT-Active	US	10/171080	7221664	US-2003-0086399-A1	Yes	
7092	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	AT	121645378	2479903	2479903	Yes	
7093	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	AT	121645394	2479904	2479904	Yes	
7094	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	AT	121645402	2479905	2479905	Yes	
7095	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		PCT	PAT-Active	BR	PI0211006-7	PI0211006-7	PI0211006-7	Yes	
7096	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		CNT	PAT-Active	US	11/805013	8134980	US-2007-0223426-A1	Yes	
7097	SIGNALING FOR WIRELESS COMMUNICATIONS	[redacted]		CNT	PAT-Active	US	13/751608	9014118	US-2013-0136111-A1	Yes	
7098	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		PCT	PAT-Active	CA	2450680	2450680	2450680	Yes	
7099	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		PCD	PAT-Active	CA	2689861	2689861	2689861	Yes	
7100	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		PCD	PAT-Active	CA	2867406	2867406	2867406	Yes	
7101	TRANSMISSION OF HEART BEAT SIGNAL AT A LOWER LEVEL THAN HEART BEAT REQUEST	[redacted]		PCT	PAT-Active	CN	28140524	ZL0281405 24	1528094	Yes	
7102	A CODE DIVISION MULTIPLE ACCESS USER DEVICE	[redacted]		PCD	PAT-Active	CN	2008101775219	ZL2008101 775219	101478823	Yes	
7103	METHOD FOR ESTABLISHING CONNECTION WITH BASE STATION IN CDMA USER EQUIPMENT AND CDMA USER EQUIPMENT	[redacted]		PCD	PAT-Active	CN	2009101324007	ZL2009101 324007	101692744	Yes	
7104	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		PCD	PAT-Active	CN	200910152013X	ZL2009101 52013X	101626616	Yes	
7105	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		EPT	PAT-Active	DE	27520519	########	1396158	Yes	
7106	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	DE	121645378	########	2479903	Yes	
7107	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	DE	121645394	########	2479904	Yes	
7108	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	DE	121645402	2479905	2479905	Yes	
7109	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		EPT	PAT-Active	EP	27520519	1396158	1396158	Yes	
7110	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	EP	121645378	2479903	2479903	Yes	
7111	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]		ETD	PAT-Active	EP	121645394	2479904	2479904	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7112	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	EP	121645402	2479905	2479905	Yes	
7113	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	ES	121645378	2479903	2479903	Yes	
7114	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	ES	121645394	2479904	2479904	Yes	
7115	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	ES	121645402	2479905	2479905	Yes	
7116	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	FR	121645378	2479903	2479903	Yes	
7117	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	FR	121645394	2479904	2479904	Yes	
7118	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	FR	121645402	2479905	2479905	Yes	
7119	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	EPT	PAT-Active	GB	27520519	1396158	1396158	Yes	
7120	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GB	121645378	2479903	2479903	Yes	
7121	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GB	121645394	2479904	2479904	Yes	
7122	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GB	121645402	2479905	2479905	Yes	
7123	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GR	121645378	2479903	2479903	Yes	
7124	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GR	121645394	2479904	2479904	Yes	
7125	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	GR	121645402	2479905	2479905	Yes	
7126	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	FPR	PAT-Active	HK	41032916	1061136	1061136	Yes	
7127	A CODE DIVISION MULTIPLE ACCESS USER DEVICE	[redacted]	[redacted]	FPD	PAT-Active	HK	101001773	1132612	1132612	Yes	
7128	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	PAT-Active	ID	W00200302466	IDP000030196	39426	Yes	
7129	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	ID	W00200802783	IDP000041985		Yes	
7130	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	PAT-Active	IL	159262	159262	159262	Yes	
7131	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	IL	192394	192394		Yes	
7132	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	IL	200920	200920	200920	Yes	
7133	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	IL	205264	205264	205264	Yes	
7134	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	JP	2009-245386	5254178	2010-028832	Yes	
7135	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	JP	2012-000485	5254472	2012-110006	Yes	
7136	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2003/011587	246804	PA/a/2003/011587	Yes	
7137	METHOD AND APPARATUS FOR THE TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	NL	121645378	2479903	2479903	Yes	
7138	APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	NL	121645394	2479904	2479904	Yes	
7139	METHOD AND APPARATUSES FOR TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	ETD	PAT-Active	NL	121645402	2479905	2479905	Yes	
7140	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	PAT-Active	NO	20035560	331903	20035560	Yes	
7141	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	PAT-Active	SG	200307436-6	101274	101274	Yes	
7142	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	SG	200508073-4	162609	162609	Yes	
7143	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	PAT-Active	SG	201004135-8	185139	185139	Yes	
7144	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	CIP	PAT-Active	US	10/171378	7394791	US-2003-0095517-A1		
7145	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	CNT	PAT-Active	US	12/165422	9042400	US-2009-0086680-A1		
7146	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	FPD	PAT-Active	HK	111124523	1158392	1158392		
7147	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	FPD	PAT-Active	HK	121001619	1159880	1159880		
7148	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	APP-Pending	ID	W00200802784		502534		
7149	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	PAT-Active	IL	159261	159261	159261		
7150	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	PAT-Active	IL	193219	193219	193219		
7151	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2003/011589	248531	PA/a/2003/011589		
7152	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2007/000149	275002			
7153	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2007/011246	298510			
7154	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	NP	PAT-Active	US	10/273478	7768953	US-2003-0086381-A1	Yes	
7155	USER EQUIPMENT (UE) POWER SAVINGS FOR HIGH CHP RATE AND LOW CHIP RATE TIME DIVISION	[redacted]	[redacted]	PCD	PAT-Active	CN	2010102449591	ZL2010102449591	101959293	Yes	
7156	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	PAT-Active	CN	2012102800712	ZL2012102800712	102769901	Yes	
7157	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2004-0001782	10-0613185	10-2004-0613185	Yes	
7158	METHOD FOR REDUCING POWER CONSUMPTION OF THE UE AND POWER EFFICIENT USER EQUIPMENT	[redacted]	[redacted]	DIV	PAT-Active	TW	92127581	I302405	200417181	Yes	
7159	USER EQUIPMENT FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	DIV	PAT-Active	TW	94137194	I282668	200637214	Yes	
7160	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	NP	PAT-Active	US	10/270822	7376879	US-2003-0086391-A1	Yes	
7161	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Pending	BR	PI0213664-3		PI0213664-3	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7162	MEDIUM ACCESS CONTROL-HIGH SPEED	[redacted]	[redacted]	CNT	PAT-Active	US	11/365148	7392452	US-2006-0242529-A1	Yes	
7163	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	CNT	PAT-Active	US	12/144415	8271844	US-2008-0253346-A1	Yes	
7164	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	CNT	PAT-Active	US	13/588775	8484525	US-2012-0307622-A1	Yes	
7165	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	CNT	PAT-Active	US	13/892759	9072115	US-2013-0250920-A1	Yes	
7166	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	CNT	PAT-Active	US	14/722380	9596058	US-2015-0358123-A1	Yes	
7167	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	PAT-Active	CN	28206401	ZL028206401	1605219	Yes	
7168	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEM SUPPORTING H-ARQ	[redacted]	[redacted]	FPR	PAT-Active	HK	51046134	1073559	1073559	Yes	
7169	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTING H-ARQ	[redacted]	[redacted]	NP	PAT-Active	KR	10-2003-0087541	10-0563804	10-2004-0004251	Yes	
7170	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2004/003686	264534	PA/a/2004/003686	Yes	
7171	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2008/010263	273177		Yes	
7172	A RADIO NETWORK CONTROLLER USER EQUIPMENT AND METHOD FOR TRANSFERRING DATA IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	91124066	I231111		Yes	
7173	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	DIV	PAT-Active	TW	92127583	I257780	200420018	Yes	
7174	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
7175	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	NP	PAT-Active	US	10/334489	6717927	US-2003-0189909-A1		
7176	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	AT	151954591	3002971	3002971		
7177	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	AU	2003224820	########	2003224820		
7178	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	AU	2008202107	########	2008202107		
7179	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	BE	151954591	3002971	3002971		
7180	HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	10/787800	8085726	US-2004-0165554-A1		
7181	HIGH SPEED DOWNLINK SHARED CONTROL CHANNEL CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	11/352556	8085728	US-2006-0153137-A1		
7182	HIGH SPEED DOWNLINK SHARED CONTROL CHANNEL CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	11/352569	8085729	US-2006-0126567-A1		
7183	HS-DSCH INTER-NODE B CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	11/489975	8130721	US-2006-0256745-A1		
7184	HS-DSCH INTER-NODE B CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	13/412143	8837431	US-2012-0170550-A1		
7185	HS-DSCH INTER-NODE B CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	14/460631	9220037	US-2014-0362826-A1		
7186	HS-DSCH INTER-NODE B CELL CHANGE	[redacted]	[redacted]	CNT	PAT-Active	US	14/977504	9565603	US-2016-0112912-A1		
7187	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	CA	2481270	2481270	2481270		
7188	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	CA	2644202	2644202	2644202		
7189	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	CA	2906411	2906411	2906411		
7190	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	CH	151954591	3002971	3002971		
7191	USER EQUIPMENT AND METHOD FOR FACILITATING A HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	CN	38077310	ZL038077310	1647555		
7192	USER EQUIPMENT AND METHOD OF FACILITATING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	CN	2007101538134	ZL200710153813 4	101137240		
7193	USER EQUIPMENT AND METHOD TO IMPROVE HIGH SPEED DOWNLINK SHARED CONTROL CHANNEL CELL	[redacted]	[redacted]	PCD	PAT-Active	CN	2007101538149	ZL200710153814 9	101137241		
7194	USER EQUIPMENT ACTION POST HIGH SPEED DOWNLINK SHARED CHANNEL SERVING CELL CHANGE OF HIGH SPEED DOWNLINK PACKET	[redacted]	[redacted]	PCD	PAT-Active	CN	2009101746244	ZL200910174624 4	101662801		
7195	SYSTEM AND METHOD WHICH FACILITATE HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	CN	2009101746259	ZL200910174625 9	101662803		
7196	USER EQUIPMENT ACTION POST HIGH SPEED DOWNLINK SHARED CHANNEL SERVING CELL CHANGE OF HIGH SPEED DOWNLINK PACKET	[redacted]	[redacted]	PCD	PAT-Active	CN	200910174623X	ZL200910174623X	101702819		
7197	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	DE	37215126	60323350	1493288		
7198	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	DE	81526352	########	1940095		
7199	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	DE	151954591	########	3002971		
7200	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	DK	37215126	1493288	1493288		
7201	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	EE	151954591	3002971	3002971		
7202	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	EP	37215126	1493288	1493288		
7203	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	EP	81526352	1940095	1940095		
7204	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	EP	151954591	3002971	3002971		
7205	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	FI	37215126	1493288	1493288		
7206	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	FR	37215126	1493288	1493288		
7207	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	FR	81526352	1940095	1940095		
7208	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	FR	151954591	3002971	3002971		
7209	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	GB	37215126	1493288	1493288		
7210	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	GB	81526352	1940095	1940095		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7211	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	GB	151954591	3002971	3002971		
7212	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	FPR	PAT-Active	HK	51081924	1074321	1074321		
7213	USER EQUIPMENT AND METHOD OF FACILITATING A HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	FPD	PAT-Active	HK	81099191	1115974	1115974		
7214	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	FPD	PAT-Active	HK	81099182	1115973	1115973		
7215	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	ID	W00200702673	IDP000044249	473697		
7216	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	IE	37215126	1493288	1493288		
7217	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	IE	151954591	3002971	3002971		
7218	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	IL	164415	164415	164415		
7219	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	IL	197704	197704	197704		
7220	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	IL	205946	205946	205946		
7221	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	IN	3001/DELNP/2004	223367	3001/DELNP/2004		
7222	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	APP-Pending	IN	880/DELNP/2009		880/DELNP/2009		
7223	HS-DSCH INTER-NODE B CELL CHANGE	[redacted]	[redacted]	PCD	APP-Pending	IN	9423/DELNP/2015		9423/DELNP/2015		
7224	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	IT	37215126	########	1493288		
7225	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	JP	2003-584855	3784805	2005-522923		
7226	SYSTEM FOR EFFICIENTLY RECOVERING DATA BUFFERED IN NODE B AFTER CHANGING COMMON CHANNEL CELL OF HIGH-SPEED DOWNLINK ON SERVICE SIDE	[redacted]	[redacted]	PCD	PAT-Active	JP	2005-200353	4298682	2006-025437		
7227	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2004-7015750	10-0955016	10-2004-0111476		
7228	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2008-7008006	10-1018369	10-2008-0036245		
7229	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2010-7003363	10-1044649	10-2010-0029853		
7230	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2010-7020792	10-1044648	10-2010-0110394		
7231	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2004/009742	249717	PA/a/2004/009742		
7232	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2007/011939	280584			
7233	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2007/011940	280585			
7234	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2007/011941	280586			
7235	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	NL	81526352	1940095	1940095		
7236	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	PAT-Active	NL	151954591	3002971	3002971		
7237	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	PAT-Active	NO	20044785	328029	20044785		
7238	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	NO	20092205	336425	20092205		
7239	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	NO	20150870	340721	20150870		
7240	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	PAT-Active	NO	20151369	339864	20151369		
7241	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	PAT-Active	SE	37215126	1493288	1493288		
7242	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
7243	METHOD AND APPARATUS FOR REDUCING UPLINK AND DOWNLINK TRANSMISSION ERRORS BY SUPPORTING ADAPTIVE MODULATION AND CODING AND HYBRID AUTOMATIC REPEAT REQUEST FUNCTIONS	[redacted]	[redacted]	NP	PAT-Active	US	10/434870	7408904	US-2004-0009786-A1		
7244	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
7245	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	NP	PAT-Active	US	10/441432	7640038	US-2004-0043791-A1	Yes	
7246	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	CNT	PAT-Active	US	12/646491	8364198	US-2010-0099454-A1	Yes	
7247	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	CNT	PAT-Active	US	13/744258	8909232	US-2013-0137437-A1	Yes	
7248	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	CNT	PAT-Active	US	14/561168	9264086	US-2015-0141078-A1	Yes	
7249	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	CNT	PAT-Active	US	14/991781	9509356	US-2016-0119008-A1	Yes	
7250	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCT	PAT-Active	CN	38115301	ZL0381153 01	1656701	Yes	
7251	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	DE	37246022	60321463	1510012	Yes	
7252	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	EP	37246022	1510012	1510012	Yes	
7253	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	ES	37246022	1510012	1510012	Yes	
7254	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	FI	37246022	1510012	1510012	Yes	
7255	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	FR	37246022	1510012	1510012	Yes	
7256	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	GB	37246022	1510012	1510012	Yes	
7257	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	IT	37246022	########	1510012	Yes	
7258	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2004-507161	4178145	2005-526461	Yes	
7259	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2004-7018857	10-0647507	10-2005-0004192	Yes	
7260	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2005-7017453	10-0897839	10-2005-0100010	Yes	
7261	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	EPT	PAT-Active	SE	37246022	1510012	1510012	Yes	
7262	MOBILE UNIT AND COMMUNICATION METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	TW	92113514	I243553	200400719	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7263	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	DIV	PAT-Active	TW	93104015	I331457	200501610	Yes	
7264	WIRELESS TRANSMIT/RECEIVE UNIT AND COMMUNICATION METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	95117372	I336198	200714099	Yes	
7265	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	DIV	PAT-Active	TW	98127955	I418156	201029346	Yes	
7266	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	CNT	PAT-Active	US	11/127577	8116773	US-2005-0201348-A1		
7267	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
7268	FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	CNT	PAT-Active	US	11/491410	7467345	US-2007-0168830-A1		
7269	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	10/681026	7248878	US-2004-0192317-A1	Yes	
7270	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	NP	PAT-Active	US	10/721482	7274947	US-2004-0106426-A1	Yes	
7271	BIAS ERROR COMPENSATED INITIAL TRANSMISSIONPOWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	NP	PAT-Active	AR	P030104352	42212	42212	Yes	
7272	BIAS ERROR COMPENSATED INITIAL TRANSMISSIONPOWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	NP	PAT-Active	TW	92132968	I234945	200419982	Yes	
7273	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
7274	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	10/772644	7444144	US-2004-0248602-A1	Yes	
7275	METHOD FOR IDENTIFYING A CODE GROUP REPRESENTATIVE OF A NUMBER OF BASE STATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	12/258877	8086228	US-2009-0054094-A1	Yes	
7276	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2006-501131	4195901	2006-516856	Yes	
7277	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2005-7014377	10-0758190	10-2005-0107410	Yes	
7278	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/886735	7170877	US-2005-0041623-A1	Yes	
7279	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	11/654765	9456451	US-2007-0115893-A1	Yes	
7280	SYSTEM FOR EFFICIENT RECOVERY OF NODE-B BUFFERED DATA FOLLOWING MAC LAYER RESET	[redacted]	[redacted]	NP	PAT-Active	US	10/616331	7706405	US-2004-0052229-A1		
7281	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	NP	PAT-Active	US	10/890790	6958982	US-2005-0059422-A1		
7282	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	CNT	PAT-Active	US	11/183549	8340051	US-2006-0018284-A1		
7283	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	CNT	PAT-Active	US	14/248169	9319994	US-2014-0293876-A1		
7284	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	CNT	PAT-Active	US	15/132093	9948498	US-2016-0234056-A1		
7285	METHOD FOR USE IN AN ACCESS POINT (AP) AND AN ACCESS POINT (AP)	[redacted]	[redacted]	FPD	PAT-Active	HK	131011929	1174178	1174178		
7286	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	PCD	PAT-Active	IN	3271/DELNP/2009	318985	3271/DELNP/2009		
7287	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2008/012644	288368			
7288	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	NP	PAT-Active	US	11/019489	7215655	US-2005-0169293-A1	Yes	
7289	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	AU	2005204554	########	2005204554	Yes	
7290	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	AU	2008203300	########	2008203300	Yes	
7291	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	AU	2009245825	########	2009245825	Yes	
7292	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	APP-Pending	BR	122015024347-5		122015024347-5	Yes	
7293	TFC AND E-TFC SELECTION FOR A USER EQUIPMENT	[redacted]	[redacted]	CNT	PAT-Active	US	11/705638	7522557	US-2007-0140179-A1	Yes	
7294	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	CNT	PAT-Active	US	12/422516	8483148	US-2009-0196248-A1	Yes	
7295	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	CNT	PAT-Active	US	14/511096	9942878	US-2015-0023310-A1	Yes	
7296	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	CN	2005800017478	ZL2005800017478	101053175	Yes	
7297	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	CN	201310028722 3	ZL2013100287223	103220772	Yes	
7298	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	CN	201310028723 8	ZL2013100287238	103199955	Yes	
7299	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	CN	201410412586 2	ZL2014104125862	104135762	Yes	
7300	METHOD AND APPARATUS FOR TRANSPORT FORMAT COMBINATION	[redacted]	[redacted]	PCD	PAT-Active	CN	201410412264 8	ZL2014104122648	104135761	Yes	
7301	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	DE	81553844	########	1976145	Yes	
7302	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	DE	81553927	########	1976146	Yes	
7303	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	DK	81553844	1976145	1976145	Yes	
7304	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	EP	57113128	1704654	1704654	Yes	
7305	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	AT	57113128	1704654	1704654	Yes	
7306	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	BE	57113128	1704654	1704654	Yes	
7307	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	CH	57113128	1704654	1704654	Yes	
7308	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EP	81553778	1976144	1976144	Yes	

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7309	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EP	81953844	1976145	1976145	Yes	
7310	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EP	81953927	1976146	1976146	Yes	
7311	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EP	111856423	2434656	2434656	Yes	
7312	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	AT	111856423	2434656	2434656	Yes	
7313	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	BE	111856423	2434656	2434656	Yes	
7314	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	CH	111856423	2434656	2434656	Yes	
7315	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	DE	111856423	2434656	2434656	Yes	
7316	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EE	111856423	2434656	2434656	Yes	
7317	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	ES	111856423	2434656	2434656	Yes	
7318	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	FR	111856423	2434656	2434656	Yes	
7319	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GB	111856423	2434656	2434656	Yes	
7320	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GR	111856423	2434656	2434656	Yes	
7321	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	HU	111856423	2434656	2434656	Yes	
7322	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	IE	111856423	2434656	2434656	Yes	
7323	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	NL	111856423	2434656	2434656	Yes	
7324	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	SK	111856423	2434656	2434656	Yes	
7325	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	APP-Pending	EP	151860564		2988556	Yes	
7326	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	AT	81553778	1976144	1976144	Yes	
7327	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	BE	81553778	1976144	1976144	Yes	
7328	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	CH	81553778	1976144	1976144	Yes	
7329	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	DE	81553778	1976144	1976144	Yes	
7330	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	DE	57113128	1704654	1704654	Yes	
7331	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	EE	81553778	1976144	1976144	Yes	
7332	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	ES	81553778	1976144	1976144	Yes	
7333	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	FR	81553778	1976144	1976144	Yes	
7334	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GB	81553778	1976144	1976144	Yes	
7335	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GR	81553778	1976144	1976144	Yes	
7336	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	HU	81553778	1976144	1976144	Yes	
7337	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	IE	81553778	1976144	1976144	Yes	
7338	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	NL	81553778	1976144	1976144	Yes	
7339	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	SK	81553778	1976144	1976144	Yes	
7340	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	EE	57113128	1704654	1704654	Yes	
7341	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	ES	57113128	1704654	1704654	Yes	
7342	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	FR	57113128	1704654	1704654	Yes	
7343	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	GB	57113128	1704654	1704654	Yes	
7344	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	GR	57113128	1704654	1704654	Yes	
7345	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	HU	57113128	1704654	1704654	Yes	
7346	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	IE	57113128	1704654	1704654	Yes	
7347	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	NL	57113128	1704654	1704654	Yes	
7348	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	EPT	PAT-Active	SK	57113128	1704654	1704654	Yes	
7349	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	ES	81953844	1976145	1976145	Yes	
7350	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	FI	81553844	1976145	1976145	Yes	
7351	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	FR	81553844	1976145	1976145	Yes	
7352	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GB	81553844	1976145	1976145	Yes	
7353	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	GB	81553927	1976146	1976146	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7354	METHOD AND APPARATUS FOR TRANSPORT FORMAT COMBINATION	[redacted]	[redacted]	FPR	PAT-Active	HK	81040665	1113868	1113868	Yes	
7355	USER EQUIPMENT (UE) THRESHOLD OF FREE CHANNELS (TFC) IN ENHANCED UPLINK (EU)	[redacted]	[redacted]	FPD	PAT-Active	HK	1430086220	1187765	1187765	Yes	
7356	USER EQUIPMENT (UE) THRESHOLD OF FREE CHANNELS (TFC) IN ENHANCED UPLINK (EU)	[redacted]	[redacted]	FPD	PAT-Active	HK	1430011387	1187177	1187177	Yes	
7357	METHOD AND APPARATUS FOR TRANSPORT FORMAT COMBINATION	[redacted]	[redacted]	FPD	PAT-Active	HK	1510041208	1203738	1203738	Yes	
7358	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	FPD	PAT-Active	HK	1210828800	1167757	1167757	Yes	
7359	METHOD AND APPARATUS FOR A TRANSPORT FORMAT COMBINATION	[redacted]	[redacted]	FPD	PAT-Active	HK	1510041164	1203737	1203737	Yes	
7360	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	ID	WO03009001895	IDP000020484	464056	Yes	
7361	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	ID	WO03009000193	IDP000031499	480612	Yes	
7362	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	IE	81553844	1976145	1976145	Yes	
7363	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	IL	176436	176436	176436	Yes	
7364	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	IL	197795	197795	197795	Yes	
7365	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	IN	473/DELNP/2006	264823	473/DELNP/2006	Yes	
7366	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	APP-Pending	IN	5567/DELNP/2011		5567/DELNP/2011	Yes	
7367	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	APP-Pending	IN	5569/DELNP/2011		5569/DELNP/2011	Yes	
7368	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	APP-Pending	IN	5570/DELNP/2011		5570/DELNP/2011	Yes	
7369	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	IT	81553844	88888888	1976145	Yes	
7370	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	JP	2006-543486	4560520	2007-518366	Yes	
7371	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	JP	2007-275779	4560537	2008-067405	Yes	
7372	METHOD FOR SELECTING TRANSPORT FORMAT COMBINATION IN WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	JP	2008-178936	4610665	2009-261000	Yes	
7373	METHOD OF TRANSPORT FORMAT COMBINATION SELECTION IN WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	JP	2010-096501	5026552	2010-183636	Yes	
7374	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	JP	2010-182375	5026570	2010-268521	Yes	
7375	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	JP	2012-053704	5420698	2012-124953	Yes	
7376	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2006-7014393	10-1063960	10-2007-0012334	Yes	
7377	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2010-7000356	10-1373622	10-2010-0023953	Yes	
7378	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2011-7008928	10-1171643	10-2011-0050565	Yes	
7379	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2011-7017643	10-1236153	10-2011-0099780	Yes	
7380	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2012-7006101	10-1299957	10-2012-0043080	Yes	
7381	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2012-7018041	10-1299958	10-2012-0098875	Yes	
7382	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2006/007741	265363	PA/a/2006/007741	Yes	
7383	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2008/016261	278127		Yes	
7384	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2009/003007	278533		Yes	
7385	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	NL	81553844	1976145	1976145	Yes	
7386	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	PAT-Active	NO	20063615	337614	20063615	Yes	
7387	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	PAT-Active	NO	20151174	335912	20151174	Yes	
7388	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	ETD	PAT-Active	SE	81553844	1976145	1976145	Yes	
7389	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	MP	PAT-Active	TW	94100574	I352256	200524316	Yes	
7390	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	PAT-Active	TW	100135388	I481216	201218661	Yes	
7391	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	PAT-Active	TW	104101798	I577213	201517665	Yes	
7392	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	PAT-Active	TW	104101800	I577214	201517666	Yes	
7393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
7394	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	12/839506	8385330	US-2011-0064024-A1	Yes	
7395	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/187002	9088960	US-2014-0171131-A1	Yes	
7396	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	201610343958X		105848289	Yes	
7397	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	DIV	APP-Pending	CN	201710387633.1		107257592	Yes	
7398	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	FPD	PAT-Active	HK	1310060263	1173022	1173022	Yes	
7399	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	1230012657		1228152	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7400	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	ID	W00200807362	ID0000044945	483163	Yes	
7401	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	IN	7411/DELNP/2012		7411/DELNP/2012	Yes	
7402	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	98121303	I384806	200814758	Yes	
7403	A SERVER FOR PROVIDING WIRELESS TELECOMMUNICATION SERVICES TO A WIRELESS TRANSMIT/RECEIVE UNIT AND THE METHOD THEREOF AND A WIRELESS TRANSMIT/RECEIVE UNIT AND THE METHOD THEREOF	[redacted]	[redacted]	DIV	PAT-Active	TW	104124528	I565256	201611539	Yes	
7404	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/385168	7876806	US-2006-0245472-A1	Yes	
7405	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	12/984301	8705641	US-2011-0142094-A1	Yes	
7406	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	14/197440	9014578	US-2014-0185554-A1	Yes	
7407	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	95109845	I337013	200705845	Yes	
7408	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	100101163	I433477	201185851	Yes	
7409	TRANSMITTING DEVICE RECEIVING DEVICE AND METHOD APPLICABLE IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	103102455	I514788	201427300	Yes	
7410	TRANSMITTING DEVICE RECEIVING DEVICE AND METHOD APPLICABLE IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	104132815	I587649	201620260	Yes	
7411	TRANSMITTING DEVICE RECEIVING DEVICE AND METHOD APPLICABLE IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	TW	106109981	I666886	201739181	Yes	
7412	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	11/406878	7715460	US-2006-0256839-A1	Yes	
7413	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	AU	2006240057	########	2006240057	Yes	
7414	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	AU	2009250999	########	2009250999	Yes	
7415	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	BE	67508648	1872480	1872480	Yes	
7416	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	BR	PI0612361-9	PI0612363-9	PI0612361-9	Yes	
7417	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS WTRU AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	12/778789	8023551	US-2010-0220684-A1	Yes	
7418	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS WTRU AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	13/236147	8340153	US-2012-0008617-A1	Yes	
7419	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS WTRU AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	13/706811	8767795	US-2013-0100995-A1	Yes	
7420	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS WTRU AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/164676	9077488	US-2014-0204859-A1	Yes	
7421	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/791113	10382172	US-2015-0326357-A1	Yes	
7422	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	CA	2605657	2605657	2605657	Yes	
7423	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	DE	67508648	########	1872480	Yes	
7424	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	EP	67508648	1872480	1872480	Yes	
7425	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	EP	121819841	2530844	2530844	Yes	
7426	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	APP-Pending	EP	13185444O		2680485	Yes	
7427	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	AT	121819841	2530844	2530844	Yes	
7428	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	BE	121819841	2530844	2530844	Yes	
7429	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	CH	121819841	2530844	2530844	Yes	
7430	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	DE	121819841	2530844	2530844	Yes	
7431	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	EE	121819841	2530844	2530844	Yes	
7432	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	ES	121819841	2530844	2530844	Yes	
7433	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	FR	121819841	2530844	2530844	Yes	
7434	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	GB	121819841	2530844	2530844	Yes	
7435	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	GR	121819841	2530844	2530844	Yes	
7436	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	IE	121819841	2530844	2530844	Yes	
7437	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Active	NL	121819841	2530844	2530844	Yes	
7438	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	ES	67508648	1872480	1872480	Yes	
7439	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	FI	67508648	1872480	1872480	Yes	
7440	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	FR	67508648	1872480	1872480	Yes	
7441	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	GB	67508648	1872480	1872480	Yes	
7442	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	ID	W00200703467	ID0000024651	674756	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7483	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	ID	W00200501128	ID0000038395	492115	Yes	
7484	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	IL	186836	186836	186836	Yes	
7485	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	IN	8197/DELNP/2007	264848	8197/DELNP/2007	Yes	
7486	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Pending	IN	4803/DELNP/2014		4803/DELNP/2014	Yes	
7487	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Pending	IN	7577/DELNP/2014		7577/DELNP/2014	Yes	
7488	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	IT	67508648	88888888	1872480	Yes	
7489	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	JP	2013-252932	5855076	2014-090455	Yes	
7490	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	JP	2014-165151	5934306	2015-008507	Yes	
7491	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	KR	10-2006-0036910	10-1236865	10-2006-0111616	Yes	
7492	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2011-0041100	10-1302811	10-2011-0056263	Yes	
7493	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2012-0031960	10-1304228	10-2012-0052912	Yes	
7494	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2012-0092015	10-1304227	10-2012-0112288	Yes	
7495	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/A/2007/013143	281764	MX/A/2007/013143	Yes	
7496	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	MY	PI20061786	MY-151888-A		Yes	
7497	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	NL	67508648	1872480	1872480	Yes	
7498	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	NO	20075899	338282	20075899	Yes	
7499	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	SE	67508648	1872480	1872480	Yes	
7500	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	SG	200717094-7	136688	136688	Yes	
7501	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Active	SG	201002787-8	181838	181838	Yes	
7502	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Pending	SG	10201502894U		10201502894U	Yes	
7503	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	TW	95114037	I455519	200642341	Yes	
7504	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	98109628	I416894	201004192	Yes	
7505	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	103127085	I532337	201444312	Yes	
7506	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	103127086	I527437	201445915	Yes	
7507	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	104144680	I590626	201637410	Yes	
7508	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	APP-Pending	VE	2006-000874		2006-000874	Yes	
7509	FREQUENCY DOMAIN JOINT DETECTION FOR WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	11/841881	7548577	US-2006-0274842-A1		
7510	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	11/840328	7881247	US-2008-0049709-A1		
7511	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	AU	2007284477	88888888	2007284477		
7512	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	AU	2012200312	88888888	2012200312		
7513	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	AU	2013270616	88888888	2013270616		
7514	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	200780030614.2	ZL200780030614.2	101512929		
7515	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	CN	201410210348.5	ZL201410210348	103986556		
7516	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	EP	12152478.9	2448145	2448145		
7517	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	AT	12152478.9	2448145	2448145		
7518	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	BE	12152478.9	2448145	2448145		
7519	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	CH	12152478.9	2448145	2448145		
7520	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	DE	12152478.9	2448145	2448145		
7521	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	EE	12152478.9	2448145	2448145		
7522	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	ES	12152478.9	2448145	2448145		
7523	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	FR	12152478.9	2448145	2448145		
7524	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	GB	12152478.9	2448145	2448145		
7525	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	GR	12152478.9	2448145	2448145		
7526	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	HU	12152478.9	2448145	2448145		
7527	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	IE	12152478.9	2448145	2448145		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7488	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	NL	121524785	2448145	2448145		
7489	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	SK	121524785	2448145	2448145		
7490	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	PAT-Active	HK	1010066003	1133695	1133695		
7491	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	APP-Pending	HK	1410058987		1196722		
7492	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	ID	W00201203532	ID0000055620	2013/01534		
7493	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	IL	233294	233294	233294		
7494	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	IN	1133/DELNP/2009		1133/DELNP/2009		
7495	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2009-524672	5420407	2010-501136		
7496	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2009-7005482	10-1066151	10-2009-0041441		
7497	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2009-7013907	10-1325370	10-2009-0074825		
7498	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2012-7021375	10-1325434	10-2013-0067488		
7499	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2009/001761	293905	MX/a/2009/001761		
7500	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	MY	PI20090583	MY-157698-A			
7501	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	AU	2009109419	2407158	2009109419		
7502	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	SG	200901096-8	150217	150217		
7503	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	VE	2007-001769		2007-001769		
7504	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	NP	PAT-Active	US	11/948148	7941628	US-2008-0132230-A1		
7505	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	CN	200780044138.4	ZL200780044138	101583120		
7506	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	DE	78623378	########	2123095		
7507	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted] D	ETD	PAT-Active	DE	101675452	########	2227059		
7508	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	PAT-Active	EP	78623378	2123095	2123095		
7509	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	ETD	PAT-Active	EP	10167545 2	2227059	2227059		
7510	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2009-539320	4869405	2010-512052		
7511	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2009-7013405	10-1026447	10-2009-0085138		
7512	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2009-7017619	10-1300448	10-2009-0108095		
7513	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	NP	PAT-Active	TW	96145478	I420934	200825700		
7514	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	NP	APP-Pending	VE	2007-002605		2007-002605		
7515	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	US	10/029569	6810236	US-2002-0159544-A1	Yes	
7516	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	AR	P020101748	35895	35895	Yes	
7517	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	AU	2002256209	########	2002256209	Yes	
7518	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	AU	2005209591	########	2005209591	Yes	
7519	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	AU	2007202054	########	2007202054	Yes	
7520	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	AU	2009203068	########	2009203068	Yes	
7521	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	AU	2012201347	########	2012201347	Yes	
7522	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	BR	PI0209906-3	PI0209906-3	PI0209906-3	Yes	
7523	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED BY A BASE STATION FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	CNT	PAT-Active	US	10/768211	6909901	US-2004-0185788-A1	Yes	
7524	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	15/012746	9686803	US-2016-0150551-A1	Yes	
7525	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED BY USER EQUIPMENT FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	CNT	PAT-Active	US	10/768273	7127256	US-2004-0185789-A1	Yes	
7526	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	10/768313	7171163	US-2004-0185866-A1	Yes	
7527	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURES FOR OPTIMIZING DATA TRANSMISSION IN A WIRELESS DIGITAL COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	10/768313	7209711	US-2004-0185862-A1	Yes	
7528	WIRELESS COMMUNICATION METHOD AND APPARATUS FOR MINIMIZING OVERHEAD SIGNALING AND OPTIMIZING RADIO RESOURCE UTILIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	11/656647	7639989	US-2007-0117519-A1	Yes	
7529	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	12/648470	7904026	US-2010-0105337-A1	Yes	
7530	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	13/042134	8219036	US-2011-0159906-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7531	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	13/534561	8437702	US-2012-0263151-A1	Yes	
7532	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE IMPLEMENTED IN A WIRELESS DIGITAL COMMUNICATION SYSTEM TO PRIORITIZE THE FORWARDING OF DOWNLINK DATA	[redacted]	[redacted]	CNT	PAT-Active	US	13/782664	9253789	US-2013-0176970-A1	Yes	
7533	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	CA	2447255	2447255	2447255	Yes	
7534	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	CN	28098765	ZL0280987 65	1554199	Yes	
7535	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	CN	2009100012262	ZL2009100 012262	101453303	Yes	
7536	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	DE	27256585	60220404	1391126	Yes	
7537	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	DE	71057376	60243626	1798877	Yes	
7538	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	DE	101812790	########	2296299	Yes	
7539	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	DK	27256585	1391126	1391126	Yes	
7540	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	DK	71057376	1798877	1798877	Yes	
7541	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	DK	101812790	2296299	2296299	Yes	
7542	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	EP	27256585	1391126	1391126	Yes	
7543	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	EP	71057376	1798877	1798877	Yes	
7544	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	EP	101812790	2296299	2296299	Yes	
7545	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	APP-Pending	EP	141927327		2854313	Yes	
7546	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	ES	27256585	1391126	1391126	Yes	
7547	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	ES	71057376	1798877	1798877	Yes	
7548	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	ES	101812790	2296299	2296299	Yes	
7549	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	FI	27256585	1391126	1391126	Yes	
7550	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	FI	71057376	1798877	1798877	Yes	
7551	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	FI	101812790	2296299	2296299	Yes	
7552	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	FR	27256585	1391126	1391126	Yes	
7553	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	FR	71057376	1798877	1798877	Yes	
7554	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	FR	101812790	2296299	2296299	Yes	
7555	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	GB	27256585	1391126	1391126	Yes	
7556	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	GB	71057376	1798877	1798877	Yes	
7557	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	GB	101812790	2296299	2296299	Yes	
7558	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	FPR	PAT-Active	HK	51006025	1068491	1068491	Yes	
7559	METHOD OF DETERMINING SIGNALING OVERHEAD AND RADIO RESOURCE UTILIZATION BASE STATION AND USER EQUIPMENT MOBILE TERMINAL	[redacted]	[redacted]	FPD	PAT-Active	HK	91115706	1134178	1134178	Yes	
7560	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	FPD	PAT-Active	HK	111097795	1155574	1155574	Yes	
7561	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	ID	W00200701695	IDP000020 970	473647	Yes	
7562	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	IE	27256585	1391126	1391126	Yes	
7563	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	IE	71057376	1798877	1798877	Yes	
7564	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	IE	101812790	2296299	2296299	Yes	
7565	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	IL	158884	158884	158884	Yes	
7566	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	IN	1911/DELNP/2003	241161	1911/DELNP/2003	Yes	
7567	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	IN	2847/DELNP/2005	250210	2847/DELNP/2005	Yes	
7568	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	IT	27256585	########	1391126	Yes	
7569	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	IT	71057376	########	1798877	Yes	
7570	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	IT	101812790	########	2296299	Yes	
7571	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	JP	2002-590690	4210524	2004-532588	Yes	
7572	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	JP	2012-000113	5697611	2012-105327	Yes	
7573	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	JP	2015-151779	6100331	2015-222983	Yes	
7574	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2003-7014830	10-0700344	10-2003-0096399	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7575	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2005-7015260	10-0762194	10-2005-0091100	Yes	
7576	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2007-7011650	10-0876946	10-2007-0067236	Yes	
7577	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2007-7024231	10-0906442	10-2007-0120167	Yes	
7578	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2008-7009500	10-0968556	10-2008-0053384	Yes	
7579	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2008-7023940	10-0992060	10-2008-0102269	Yes	
7580	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2009-7019997	10-0992059	10-2009-0118079	Yes	
7581	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2010-7006149	10-1032381	10-2010-0044904	Yes	
7582	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	MX	PA/a/2003/010346	240550	PA/a/2003/010346	Yes	
7583	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	MX	PA/a/2006/007658	260043		Yes	
7584	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	NL	71057376	1798877	1798877	Yes	
7585	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	NL	101812790	2296299	2296299	Yes	
7586	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	PAT-Active	NO	20101711	335395	20101711	Yes	
7587	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	EPT	PAT-Active	SE	27256585	1391126	1391126	Yes	
7588	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	SE	71057376	1798877	1798877	Yes	
7589	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	SE	101812790	2296299	2296299	Yes	
7590	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	PAT-Active	TR	101812790	2296299	2296299	Yes	
7591	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURES FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	TW	91109727	I235008		Yes	
7592	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURES FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	DIV	PAT-Active	TW	92127550	I252638	200419964	Yes	
7593	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	DIV	PAT-Active	TW	94116184	I301362	200629763	Yes	
7594	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	DIV	PAT-Active	TW	95100692	I298587	200644464	Yes	
7595	METHOD OF DETERMINING OVERHEAD SIGNALING AND RADIO RESOURCE UTILIZATION	[redacted]	[redacted]	DIV	PAT-Active	TW	97120650	I357732	200917687	Yes	
7596	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	DIV	PAT-Active	TW	99121594	I427941	201145863	Yes	
7597	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	DIV	PAT-Active	TW	100142409	I465056	201238269	Yes	
7598	APPARATUS SYSTEM AND METHOD OF BEAM SELECTION FOR BEAMFORMED DIVERSITY WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	13/798852	9001879	US-2014-0126620-A1		
7599	APPARATUS SYSTEM AND METHOD OF BEAM SELECTION FOR BEAMFORMED DIVERSITY WIRELESS COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/619293	9531450	US-2015-0222333-A1		
7600	APPARATUS SYSTEM AND METHOD OF CONTROLLING DATA FLOW OVER A COMMUNICATION NETWORK USING A TRANSFER RESPONSE	[redacted]	[redacted]	NP	PAT-Active	US	13/798594	9654604	US-2014-0140197-A1		
7601	Apparatus system and method of controlling data flow over a communication network	[redacted]	[redacted]	CNT	PAT-Active	US	14/998244	9813530	US-2016-0134728-A1		
7602	Apparatus system and method of controlling data flow over a communication network	[redacted]	[redacted]	CNT	PAT-Active	US	15/782768	10200515	US-2018-0034946-A1		
7603	Apparatus system and method of controlling data flow over a communication network	[redacted]	[redacted]	CNT	APP-Pending	US	16/231790		US-2019-0335023-A1		
7604	COMMUNICATION TERMINAL DEVICE AND METHOD FOR CONTROLLING	[redacted]	[redacted]	NP	PAT-Active	US	13/759162	9226338	US-2014-0219161-A1	Yes	
7605	COMMUNICATION TERMINAL DEVICE AND METHOD FOR CONTROLLING	[redacted]	[redacted]	CNT	PAT-Active	US	14/924919	9521532	US-2016-0050549-A1	Yes	
7606	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	PCT	PAT-Active	CN	201480003895 2	ZL2014800 038952	104969656	Yes	
7607	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	EPT	PAT-Active	EP	147027569	2954750	2954750	Yes	
7608	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	EPT	PAT-Active	DE	147027569	########	2954750	Yes	
7609	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	EPT	PAT-Active	FR	147027569	2954750	2954750	Yes	
7610	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	EPT	PAT-Active	GB	147027569	2954750	2954750	Yes	
7611	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	EPT	PAT-Active	NL	147027569	2954750	2954750	Yes	
7612	COMMUNICATION TERMINAL COMMUNICATION DEVICE METHOD FOR PROCESSING A PAGING MESSAGE AND METHOD FOR CONTROLLING A COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	13/787965	9584988	US-2014-0256365-A1		
7613	APPARATUSES AND METHODS FOR PREPARING A DIRECT COMMUNICATION BETWEEN TWO COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480007114 7	ZL2014800 071147	105144809		
7614	APPARATUSES AND METHODS FOR PREPARING A DIRECT COMMUNICATION BETWEEN TWO COMMUNICATION DEVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	161059741		1218036		
7615	COMMUNICATION DEVICE AND METHOD FOR RECEIVING INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/743380	9883515	US-2014-0198732-A1		
7616	COMMUNICATION DEVICE AND METHOD FOR RECEIVING INFORMATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020141004183		102014100418		
7617	COMMUNICATION NETWORK COMPONENT COMMUNICATION DEVICES METHOD FOR TRANSMITTING DATA AND METHODS FOR DATA COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	201410151195X	ZL2014101 51195X	103974324		
7618	COMMUNICATION NETWORK COMPONENT COMMUNICATION DEVICES METHOD FOR TRANSMITTING DATA AND METHODS FOR DATA COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	IN	321/CHE/2014		321/CHE/2014		
7619	COMMUNICATION DEVICE AND METHOD FOR RECEIVING INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/781872	9554361	US-2014-0247813-A1		
7620	COMMUNICATION DEVICE AND METHOD FOR RECEIVING INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	201410072136 3	ZL2014100 721363	104022813		
7621	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	13/779835	9532400	US-2014-0243038-A1		
7622	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION FOR DIRECT COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480006427 0	ZL2014800 064270	105009676		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7623	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION FOR DIRECT COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	147032825		2962512		
7624	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION FOR DIRECT COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161048326		1216966		
7625	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR COMMUNICATING	[redacted]	[redacted]	PCT	PAT-Active	CN	2011800738566	ZL2011800738566	103947273		
7626	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR COMMUNICATING	[redacted]	[redacted]	PCT	PAT-Active	US	13/977055	9516624	US-2013-0272251-A1		
7627	LOCATION-AWARE MANAGEMENT OF LISTS OF UNIFORM RESOURCE LOCATORS (URLS) FOR MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800582595		104782221		
7628	LOCATION-AWARE MANAGEMENT OF LISTS OF UNIFORM RESOURCE LOCATORS (URLS) FOR MOBILE DEVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	138620851		2932788		
7629	METHOD AND APPARATUS FOR GENERATING A PLURALITY OF MODULATED SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	13/799853	9054921	US-2014-0269993-A1		
7630	METHOD AND APPARATUS FOR GENERATING A PLURALITY OF MODULATED SIGNALS	[redacted]	[redacted]	NP	PAT-Active	CN	2014100917858	ZL2014100917858	104052708		
7631	METHOD AND APPARATUS FOR GENERATING A PLURALITY OF MODULATED SIGNALS	[redacted]	[redacted]	NP	APP-Pending	DE	1020141033590		102014103359		
7632	CAPACITIVE DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	13/688867	8836559	US-2014-0146913-A1		
7633	CAPACITIVE DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	DIV	PAT-Active	US	14/457184	9184763	US-2014-0347203-A1		
7634	CAPACITIVE DIGITAL TO ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	DE	1020140015599	########	102014001559		
7635	DIGITAL TO ANALOG CONVERTER COMPRISING MIXER	[redacted]	[redacted]	NP	PAT-Active	US	13/688980	8847806	US-2014-0146914-A1		
7636	DIGITAL TO ANALOG CONVERTER COMPRISING MIXER	[redacted]	[redacted]	CNT	PAT-Active	US	14/336088	9444486	US-2014-0328429-A1		
7637	DIGITAL TO ANALOG CONVERTER COMPRISING MIXER AND PHASE SHIFTER	[redacted]	[redacted]	NP	PAT-Active	DE	1020140015572	########	102014001557		
7638	COMMUNICATIONS TERMINAL AND A METHOD FOR SELECTING A TRANSMIT ANTENNA FOR A TRANSMISSION TO A RADIO COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/772529	9379788	US-2014-0233665-A1		
7639	COMMUNICATIONS TERMINAL AND A METHOD FOR SELECTING A TRANSMIT ANTENNA FOR A TRANSMISSION TO A RADIO COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/162651	9660711	US-2016-0269086-A1		
7640	COMMUNICATIONS TERMINAL AND A METHOD FOR SELECTING A TRANSMIT ANTENNA FOR A TRANSMISSION TO A RADIO COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	15/490956		US-2018-0062718-A1		
7641	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/002747	7301983			
7642	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	13/779884	8855645	US-2014-0243040-A1		
7643	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION FOR DEVICE-TO-DEVICE COMMUNICATION HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800055337	ZL2014800055337	104969613		
7644	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	EPT	APP-Pending	EP	147050504		2962491		
7645	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7646	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7647	DEVICE AND METHOD FOR FREQUENCY OFFSET ESTIMATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800737647	ZL2013800737647	105075131		
7648	DEVICE AND METHOD FOR FREQUENCY OFFSET ESTIMATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/233366	9584355	US-2015-0319027-A1		
7649	WIRELESS STATION AND METHODS FOR TOF POSITIONING USING REVERSE-DIRECTION GRANT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800600625	ZL2013800600625	104823386		
7650	WIRELESS STATION AND METHODS FOR TOF POSITIONING USING REVERSE-DIRECTION GRANT	[redacted]	[redacted]	EPT	APP-Pending	EP	138649041		2936705		
7651	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7652	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7653	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7654	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7655	WIRELESS STATION AND METHODS FOR TOF POSITIONING USING REVERSE-DIRECTION GRANT	[redacted]	[redacted]	PCT	PAT-Active	US	14/124444	9313811	US-2014-0269549-A1		
7656	AMPLIFIER STAGE	[redacted]	[redacted]	NP	PAT-Active	US	13/773852	9590575	US-2014-0240045-A1		
7657	AMPLIFIER STAGE	[redacted]	[redacted]	NP	APP-Pending	DE	1020141014170		102014101417		
7658	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
7659	TRANSFORMER AND ELECTRICAL CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	14/183618	9837199	US-2014-0240063-A1		
7660	TRANSFORMER AND ELECTRICAL CIRCUIT	[redacted]	[redacted]	CNT	APP-Pending	US	15/019980		US-2016-0181005-A1		
7661	TRANSFORMER AND ELECTRICAL CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	CN	2014100591228	ZL2014100591228	104008864		
7662	TRANSFORMER AND ELECTRICAL CIRCUIT	[redacted]	[redacted]	DIV	PAT-Active	CN	2016112164321	ZL2016112164321	107424784		
7663	TRANSFORMATOR UND ELEKTRISCHE SCHALTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131017681		102013101768		
7664	TRANSFORMER AND ELECTRICAL CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	KR	10-2014-0019378	10-1547997	10-2014-0105395		
7665	AMPLIFIER CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	TW	103104594	I590268	201505046		
7666	AMPLIFIER CIRCUIT	[redacted]	[redacted]	DIV	APP-Pending	TW	105132571		201719693		
7667	USING MULTIPLE SOURCES OF LOCATION-AID DATA TO DETERMINE POSITION INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/797599	9110157	US-2014-0278077-A1		
7668	USING MULTIPLE SOURCES OF LOCATION-AID DATA TO DETERMINE POSITION INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800083322	ZL2014800083322	104981714		
7669	USING MULTIPLE SOURCES OF LOCATION-AID DATA TO DETERMINE POSITION INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	147649453		2972483		
7670	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7671	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7672	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7673	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
7674	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	NP	PAT-Active	US	13/869541	9231681	US-2014-0204846-A1		

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7675	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	CNT	PAT-Active	US	14/953664	9621248	US-2016-0094286-A1		
7676	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	CNT	PAT-Active	US	15/447426	10171185	US-2017-0180028-A1		
7677	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	PCT	PAT-Active	CN	201480033562X	ZL2014800335628	104871439		
7678	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	PCD	APP-Pending	CN	201810467975X		108631859		
7679	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	EPT	APP-Pending	EP	14740567.8		2946486		
7680	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	NP	PAT-Active	TW	103101265	I578620	201434208		
7681	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	DIV	PAT-Active	TW	106101861	I642234	201728009		
7682	INTERFERENCE CANCELLATION RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	13/929228	9042429	US-2015-0003509-A1		
7683	INTERFERENCE CANCELLATION RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	CN	201410291277X	ZL2014102912774	104253623		
7684	INTERFERENCE CANCELLATION RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	DE	102014108400	88888888	102014108400		
7685	INTERFERENCE CANCELLATION RADIO RECEIVER	[redacted]	[redacted]	NP	PAT-Active	JP	2014-101342	5901691	2015-012606		
7686	METHOD AND DEVICE FOR DETERMINING A SIGNAL DETECTION QUALITY FOR A PHYSICAL CONTROL CHANNEL	[redacted]	[redacted]	NP	APP-Pending	DE	102014100514		102014100514		
7687	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	NP	PAT-Active	US	13/865625	9326273	US-2014-0206368-A1		
7688	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480035668	ZL2014800356668	104885378		
7689	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	EPT	PAT-Active	EP	14742853.5	2949056	2949056		
7690	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	EPT	PAT-Active	DE	147428536	2949056	2949056		
7691	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	EPT	PAT-Active	FR	147428536	2949056	2949056		
7692	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	EPT	PAT-Active	GB	147428536	2949056	2949056		
7693	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	EPT	PAT-Active	NL	147428536	2949056	2949056		
7694	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	NP	PAT-Active	TW	103101264	I571081	201434342		
7695	DUAL COMMUNICATION CIRCUIT DEVICE SELECTING COMMUNICATION CIRCUIT BASED ON COMMUNICATION ACTIVITY HISTORY	[redacted]	[redacted]	NP	PAT-Active	US	13/870010	9544418	US-2014-0323175-A1		
7696	SELECTING FIRST OR SECOND SUBSCRIBER IDENTITY MODULE BASED ON PRIORITY	[redacted]	[redacted]	CNT	PAT-Active	US	15/376776	9832783	US-2017-0127432-A1		
7697	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201410246549X	ZL2014102465499	104125689		
7698	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	PAT-Active	CN	201710146125X	ZL2017101461259	106851018		
7699	METHOD AND APPARATUS FOR AUTONOMOUS CLUSTER HEAD SELECTION FOR MACHINE-TYPE-COMMUNICATIONS (MTC)	[redacted]	[redacted]	NP	PAT-Active	US	14/012062	9578635	US-2014-0092833-A1		
7700	METHOD AND APPARATUS FOR AUTONOMOUS CLUSTER HEAD SELECTION FOR MACHINE-TYPE-COMMUNICATIONS (MTC)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380044754X	ZL2013800447540	104662814		
7701	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	13/971971	9264963	US-2015-0055454-A1		
7702	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	14/935227	9538487	US-2016-0174170-A1		
7703	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	15/385632	10349352	US-2017-0265150-A1		
7704	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	CN	201480041374X	ZL2014800413746	105432126		
7705	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	ETD	APP-Pending	EP	16168842		3099121		
7706	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	FPR	APP-Pending	HK	16110136.5		1222083		
7707	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	APP-Pending	IN	7900/CHENP/2015		7900/CHENP/2015		
7708	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-536412	6333580	2016-534632		
7709	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7001716	10-1803664	10-2016-0022373		
7710	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7033389	10-1903316	10-2017-0130625		
7711	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	PAT-Active	RU	2016101988	2613169	002613169		
7712	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCD	PAT-Active	RU	2016108853	2627727	002627727		
7713	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCD	PAT-Active	RU	2017125998	2662735	002662735		
7714	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/931415	9277439	US-2015-0003322-A1		
7715	DEVICE-TO-DEVICE CONTENTION MANAGEMENTSCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480029635X	ZL2014800296350	105747815		
7716	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	14817957.5	3014815	3014815		
7717	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	14817957.5	3014815	3014815		
7718	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	14817957.5	3014815	3014815		
7719	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	14817957.5	3014815	3014815		
7720	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	14817957.5	88888888	3014815		
7721	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	14817957.5	3014815	3014815		
7722	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	14817957.5	3014815	3014815		
7723	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	14817957.5	3014815	3014815		
7724	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	14817957.5	3014815	3014815		
7725	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	14817957.5	3014815	3014815		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7726	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	148179575	3014815	3014815		
7727	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	148179575	3014815	3014815		
7728	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	148179575	3014815	3014815		
7729	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	148179575	3014815	3014815		
7730	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	FPR	APP-Closed	HK	161073976		1219583		
7731	PHASE INTERPOLATOR	[redacted]	[redacted]	NP	PAT-Active	US	13/873826	9077511	US-2014-0321515-A1		
7732	PHASE INTERPOLATOR	[redacted]	[redacted]	NP	PAT-Active	DE	102014105828	########	102014105828		
7733	CIRCUIT AND METHOD FOR SOFTWARE TRACING	[redacted]	[redacted]	NP	PAT-Active	US	13/833392	9430428	US-2013-0246676-A1		
7734	CIRCUIT AND METHOD FOR SOFTWARE TRACING	[redacted]	[redacted]	EPA	PAT-Active	DE	121599294	########	2639702		
7735	CIRCUIT AND METHOD FOR SOFTWARE TRACING	[redacted]	[redacted]	EPA	PAT-Active	EP	121599294	2639702	2639702		
7736	POWER SENSING IN WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/155374	9537518	US-2015-0372725-A1		
7737	DISTRIBUTED MOBILITY ANCHORING FOR WIRELESS NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	US	14/806353	9629075	US-2015-0327051-A1		
7738	STATISTICS FOR OPTIMIZING DISTRIBUTED MOBILITY ANCHORING FOR WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/942252	9247490	US-2014-0023039-A1		
7739	METHOD AND DEVICE FOR PROCESSING A SIGNAL BASED ON A FIRST AND A SECOND COVARIANCE MEASURE	[redacted]	[redacted]	NP	PAT-Active	US	13/927715	9461757	US-2015-0003260-A1		
7740	METHOD AND DEVICE FOR PROCESSING A SIGNAL BASED ON A FIRST AND A SECOND COVARIANCE MEASURE	[redacted]	[redacted]	NP	PAT-Active	CN	2014102905925	ZL2014102 905925	104253776		
7741	VERFAHREN UND VORRICHTUNG ZUR VERARBEITUNG EINES SIGNALS BASIEREND AUF EINEM ERSTEN UND EINEM ZWEITEN KOVARIANZMASS	[redacted]	[redacted]	NP	APP-Pending	DE	1020141076192		102014107619		
7742	PROVIDING ASSISTANCE TO A BASE STATION FROM USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	13/845328	9948475	US-2013-0242832-A1	Yes	
7743	PROVIDING ASSISTANCE TO A BASE STATION FROM USER EQUIPMENT	[redacted]	[redacted]	CNT	PAT-Active	US	14/070243	10469240	US-2014-0056200-A1	Yes	
7744	SWITCHING DISCONTINUOUS RECEPTION PARAMETERS	[redacted]	[redacted]	NP	PAT-Active	US	13/845278	9386571	US-2013-0265928-A1	Yes	
7745	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	NP	PAT-Active	US	13/930669	9288756	US-2014-0094119-A1	Yes	
7746	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800437750	ZL2013800 437750	104662997	Yes	
7747	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	EP	138405428	2901811	2901811	Yes	
7748	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	AT	138405428	2901811	2901811	Yes	
7749	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	BE	138405428	2901811	2901811	Yes	
7750	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	CH	138405428	2901811	2901811	Yes	
7751	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	DE	138405428	2901811	2901811	Yes	
7752	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	EE	138405428	2901811	2901811	Yes	
7753	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	ES	138405428	2901811	2901811	Yes	
7754	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	FR	138405428	2901811	2901811	Yes	
7755	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	GB	138405428	2901811	2901811	Yes	
7756	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	GR	138405428	2901811	2901811	Yes	
7757	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	HU	138405428	2901811	2901811	Yes	
7758	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	IE	138405428	2901811	2901811	Yes	
7759	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	NL	138405428	2901811	2901811	Yes	
7760	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	EPT	PAT-Active	SK	138405428	2901811	2901811	Yes	
7761	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	EP	138426069	2918136	2918136		
7762	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	AT	138426069	2918136	2918136		
7763	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	BE	138426069	2918136	2918136		
7764	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	CH	138426069	2918136	2918136		
7765	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	DE	138426069	2918136	2918136		
7766	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	EE	138426069	2918136	2918136		
7767	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	ES	138426069	2918136	2918136		
7768	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	FR	138426069	2918136	2918136		
7769	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	GB	138426069	2918136	2918136		
7770	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	GR	138426069	2918136	2918136		
7771	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	HU	138426069	2918136	2918136		
7772	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	IE	138426069	2918136	2918136		
7773	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	NL	138426069	2918136	2918136		
7774	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	EPT	PAT-Active	SK	138426069	2918136	2918136		
7775	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	NP	PAT-Active	US	13/867018	9681326	US-2014-0092824-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7776	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380044871.7	ZL201338004487.17	104604175		
7777	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	EP	13840395.1	2901601	2901601		
7778	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	AT	13840395.1	2901601	2901601		
7779	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	BE	13840395.1	2901601	2901601		
7780	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	CH	13840395.1	2901601	2901601		
7781	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	DE	13840395.1	2901601	2901601		
7782	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	EE	13840395.1	2901601	2901601		
7783	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	ES	13840395.1	2901601	2901601		
7784	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	FR	13840395.1	2901601	2901601		
7785	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	GB	13840395.1	2901601	2901601		
7786	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	GR	13840395.1	2901601	2901601		
7787	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	HU	13840395.1	2901601	2901601		
7788	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	IE	13840395.1	2901601	2901601		
7789	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	NL	13840395.1	2901601	2901601		
7790	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	SK	13840395.1	2901601	2901601		
7791	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	14/027401	9781638	US-2014-0092878-A1	Yes	
7792	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	BR	112015004036-5		112015004036-5	Yes	
7793	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	CNT	PAT-Active	US	15/679778	10068032	US-2017-0347286-A1	Yes	
7794	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	CN	201380045150.8	ZL201380045150.8	104704767	Yes	
7795	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCD	APP-Pending	CN	201810038899.6		108471322	Yes	
7796	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PPD	APP-Pending	HK	18112332.2		1252973	Yes	
7797	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	EP	13842671.3	2901584	2901584	Yes	
7798	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	AT	13842671.3	2901584	2901584	Yes	
7799	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	BE	13842671.3	2901584	2901584	Yes	
7800	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	CH	13842671.3	2901584	2901584	Yes	
7801	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	DE	13842671.3	[redacted]	2901584	Yes	
7802	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	EE	13842671.3	2901584	2901584	Yes	
7803	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	ES	13842671.3	2901584	2901584	Yes	
7804	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	FR	13842671.3	2901584	2901584	Yes	
7805	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	GB	13842671.3	2901584	2901584	Yes	
7806	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	GR	13842671.3	2901584	2901584	Yes	
7807	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	HU	13842671.3	2901584	2901584	Yes	
7808	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	IE	13842671.3	2901584	2901584	Yes	
7809	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	NL	13842671.3	2901584	2901584	Yes	
7810	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CSI FEEDBACK	[redacted]	[redacted]	EPT	PAT-Active	SK	13842671.3	2901584	2901584	Yes	
7811	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PPR	PAT-Active	HK	15312182.8	1211397	1211397	Yes	
7812	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCT	APP-Pending	IN	458/CHENP/2015		458/CHENP/2015	Yes	
7813	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-528726	5917003	2015-530384	Yes	
7814	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004562	10-1655052	10-2015-0038371	Yes	
7815	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7023863	10-1763273	10-2016-0105393	Yes	
7816	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7020196	10-1980888	10-2017-0087964	Yes	
7817	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	NP	PAT-Active	US	13/830581	9516558	US-2014-0092742-A1	Yes	
7818	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	CNT	APP-Pending	US	15/298545		US-2017-0041827-A1	Yes	
7819	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	CN	201380044886.3	ZL201380044886.3	104584623	Yes	
7820	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	EP	13842906.3	2910050	2910050	Yes	
7821	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	AT	13842906.3	2910050	2910050	Yes	
7822	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	BE	13842906.3	2910050	2910050	Yes	
7823	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	CH	13842906.3	2910050	2910050	Yes	
7824	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	DE	13842906.3	[redacted]	2910050	Yes	
7825	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	EE	13842906.3	2910050	2910050	Yes	
7826	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	ES	13842906.3	2910050	2910050	Yes	
7827	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	FR	13842906.3	2910050	2910050	Yes	
7828	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	GB	13842906.3	2910050	2910050	Yes	
7829	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	GR	13842906.3	2910050	2910050	Yes	
7830	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	HU	13842906.3	2910050	2910050	Yes	
7831	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	IE	13842906.3	2910050	2910050	Yes	
7832	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	NL	13842906.3	2910050	2910050	Yes	
7833	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	SK	13842906.3	2910050	2910050	Yes	
7834	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-533156	6001788	2015-532072	Yes	
7835	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-171332	6316361	2016-226081	Yes	
7836	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	DIV	PAT-Active	JP	2018-060952	6452139	2018-125880	Yes	
7837	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004938	10-1853151	10-2015-0038381	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7838	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	13/895261	9083775	US-2014-0092886-A1		
7839	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800456304	ZL2013800456304	104604299		
7840	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	EPT	APP-Pending	EP	138415443		2901767		
7841	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-534604	6129974	2015-536096		
7842	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7003658	10-1643999	10-2015-0036546		
7843	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	13/830465	9497740	US-2014-0092731-A1	Yes	
7844	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	PAT-Active	AT	138420963	2901768	2901768	Yes	
7845	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/286236	9924401	US-2017-0026868-A1	Yes	
7846	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800458973	ZL2013800458973	104620640	Yes	
7847	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	PAT-Active	DE	138420963	########	2901768	Yes	
7848	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	PAT-Active	EP	138420963	2901768	2901768	Yes	
7849	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005371	10-1643127	10-2015-0038532	Yes	
7850	SELECTIVE JOINDER OF USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	PAT-Active	US	13/802491	8923880	US-2014-0094185-A1		
7851	SELECTIVE JOINDER OF USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800447729	ZL2013800447729	104604301		
7852	SELECTIVE JOINDER OF USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	EPT	APP-Pending	EP	138421912		2901770		
7853	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/830277	9107162	US-2014-0092821-A1	Yes	
7854	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112015004586-3		112015004586-3	Yes	
7855	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/743205	9386487	US-2015-0289240-A1	Yes	
7856	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/171402	9603095	US-2016-0278060-A1	Yes	
7857	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/426987	10231146	US-2017-0150484-A1	Yes	
7858	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800448882	ZL2013800448882	104604165	Yes	
7859	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2018101901906		108365941	Yes	
7860	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	181124973		1253216	Yes	
7861	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138406954	2901588	2901588	Yes	
7862	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	138406954	2901588	2901588	Yes	
7863	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	138406954	2901588	2901588	Yes	
7864	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	138406954	2901588	2901588	Yes	
7865	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138406954	########	2901588	Yes	
7866	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	138406954	2901588	2901588	Yes	
7867	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	138406954	2901588	2901588	Yes	
7868	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	138406954	2901588	2901588	Yes	
7869	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	138406954	2901588	2901588	Yes	
7870	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	138406954	2901588	2901588	Yes	
7871	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	138406954	2901588	2901588	Yes	
7872	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	138406954	2901588	2901588	Yes	
7873	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138406954	2901588	2901588	Yes	
7874	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	138406954	2901588	2901588	Yes	
7875	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	151109145	1210331	1210331	Yes	
7876	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	564/CHENP/2015		564/CHENP/2015	Yes	
7877	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-526773	5973666	2015-530031	Yes	
7878	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005372	10-1680988	10-2015-0040995	Yes	
7879	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7032367	10-1819614	10-2016-0135856	Yes	
7880	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2018-7000968	10-2023286	10-2018-0008888	Yes	
7881	METHOD AND DEVICE FOR REDUCING POWER DRAIN WHILE CAMPED ON A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/070518	8780775	US-2011-0292853-A1		
7882	METHOD AND APPARATUS FOR CELL DETECTION IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/842469	8660063	US-2012-0020335-A1		
7883	METHOD FOR FACILITATING SYNCHRONISATION BETWEEN A COMMUNICATIONS NETWORK AND A WIRELESS COMMUNICATIONS DEVICE OPERATING IN A CPC DTX MODE AND A WIRELESS COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/540676	9088940	US-2013-0021992-A1		
7884	WIRELESS COMMUNICATION DEVICE AND METHOD FOR PERFORMING NEIGHBOR CELL ANALYSIS DURING CONTINUOUS PACKET CONNECTIVITY MODE	[redacted]	[redacted]	NP	PAT-Active	US	12/941786	8675554	US-2012-0113825-A1		
7885	SELF-CORRECTING MULTIRATE FILTER	[redacted]	[redacted]	NP	PAT-Active	US	13/342258	8693601	US-2013-0170531-A1		
7886	SELF-CORRECTING MULTIRATE FILTER	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800658852	ZL2012800658852	104170252		
7887	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	14/216912	9344986	US-2014-0198757-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7888	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	PCT	PAT-Active	CN	201280061692X	ZL201280061692X	104115535		
7889	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800231071	ZL201380023107 1	104303439		
7890	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/041363	9398498	US-2014-0095730-A1	Yes	
7891	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800447112	ZL201380044 7112	104584482	Yes	
7892	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004526	10-1665896	10-2015-0036737	Yes	
7893	METHOD FOR SEAMLESS UNICAST-BROADCAST SWITCHING DURING DASH-FORMATTED CONTENT STREAMING	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800453749	ZL201380045 3749	104604263		
7894	ENHANCED VIDEO DECODING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/032719	10015486	US-2014-0119459-A1		
7895	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800503979	ZL201380050 3979	104871546		
7896	ENERGY-AWARE MULTIMEDIA ADAPTATION FOR STREAMING AND CONVERSATIONAL SERVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/041476	9629131	US-2014-0095670-A1		
7897	ENERGY-AWARE MULTIMEDIA ADAPTATION FOR STREAMING AND CONVERSATIONAL SERVICES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800450685	ZL201380045 0685	104604286		
7898	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/886619	9369922	US-2014-0036704-A1	Yes	
7899	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/886795	9161254	US-2014-0092787-A1	Yes	
7900	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	BR	112015004006-3		112015004006-3	Yes	
7901	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	BR	122016021571-7		122016021571-7	Yes	
7902	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/473292	9848351	US-2014-0369244-A1	Yes	
7903	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/946576	9848353	US-2016-0080134-A1	Yes	
7904	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/722869		US-2018-0027442-A1	Yes	
7905	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800452727		104604282	Yes	
7906	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	151109154		1210354	Yes	
7907	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	565/CHENP/2015		565/CHENP/2015	Yes	
7908	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-527687	6044858	2015-529418	Yes	
7909	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-215246	6263827	2017-050884	Yes	
7910	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7004879	10-1713456	10-2015-0038336	Yes	
7911	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7005349	10-1754889	10-2017-0024157	Yes	
7912	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7013655	10-1861498	10-2017-0060166	Yes	
7913	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800455689	ZL201380045 5689	104604284		
7914	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	DIV	PAT-Active	US	14/875894	9743390	US-2016-0029262-A1		
7915	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	138417977	2901748	2901748		
7916	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	AT	138417977	2901748	2901748		
7917	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	BE	138417977	2901748	2901748		
7918	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	CH	138417977	2901748	2901748		
7919	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	138417977	2901748	2901748		
7920	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EE	138417977	2901748	2901748		
7921	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	ES	138417977	2901748	2901748		
7922	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	138417977	2901748	2901748		
7923	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	138417977	2901748	2901748		
7924	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GR	138417977	2901748	2901748		
7925	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	HU	138417977	2901748	2901748		
7926	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	IE	138417977	2901748	2901748		
7927	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	138417977	2901748	2901748		
7928	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	SK	138417977	2901748	2901748		
7929	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	13/927823	9301183	US-2014-0092865-A1		
7930	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800450577	ZL201380045 0577	104584475		
7931	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EP	138404934	2901602	2901602		
7932	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	AT	138404934	2901602	2901602		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7933	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	BE	138404934	2901602	2901602		
7934	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	CH	138404934	2901602	2901602		
7935	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	DE	138404934	2901602	2901602		
7936	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EE	138404934	2901602	2901602		
7937	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	ES	138404934	2901602	2901602		
7938	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	FR	138404934	2901602	2901602		
7939	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GB	138404934	2901602	2901602		
7940	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GR	138404934	2901602	2901602		
7941	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	HU	138404934	2901602	2901602		
7942	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	IE	138404934	2901602	2901602		
7943	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	NL	138404934	2901602	2901602		
7944	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	SK	138404934	2901602	2901602		
7945	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	NP	PAT-Active	US	13/867020	9439095	US-2014-0092786-A1		
7946	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800450967	ZL2013800450967	104604167		
7947	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	EP	138428826	2901589	2901589		
7948	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	AT	138428826	2901589	2901589		
7949	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	BE	138428826	2901589	2901589		
7950	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	CH	138428826	2901589	2901589		
7951	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	DE	138428826	########	2901589		
7952	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	EE	138428826	2901589	2901589		
7953	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	ES	138428826	2901589	2901589		
7954	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	FR	138428826	2901589	2901589		
7955	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	GB	138428826	2901589	2901589		
7956	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	GR	138428826	2901589	2901589		
7957	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	HU	138428826	2901589	2901589		
7958	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	IE	138428826	2901589	2901589		
7959	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	NL	138428826	2901589	2901589		
7960	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	EPT	PAT-Active	SK	138428826	2901589	2901589		
7961	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/928628	9025445	US-2014-0092808-A1	Yes	
7962	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/684155	9386486	US-2015-0215801-A1	Yes	
7963	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/955933	9942791	US-2016-0088509-A1	Yes	
7964	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/905100		US-2018-0192318-A1	Yes	
7965	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800450505	ZL2013800450505	104584620	Yes	
7966	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	CN	2016100031973	ZL2016100031973	105635949	Yes	
7967	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	138429642	2901741	2901741	Yes	
7968	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	138429642	2901741	2901741	Yes	
7969	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	138429642	2901741	2901741	Yes	
7970	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	138429642	2901741	2901741	Yes	
7971	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	PAT-Active	EP	161559166	3051710	3051710	Yes	
7972	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	APP-Pending	EP	181664699		3370344	Yes	
7973	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	PAT-Active	AT	161559166	3051710	3051710	Yes	
7974	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	PAT-Active	BE	161559166	3051710	3051710	Yes	
7975	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	PAT-Active	CH	161559166	3051710	3051710	Yes	
7976	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	ETD	PAT-Active	DE	161559166	3051710	3051710	Yes	
7977	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	138429642	########	2901741	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
7978	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	EE	161559166	3051710	3051710	Yes	
7979	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	ES	161559166	3051710	3051710	Yes	
7980	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	FR	161559166	3051710	3051710	Yes	
7981	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	GB	161559166	3051710	3051710	Yes	
7982	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	GR	161559166	3051710	3051710	Yes	
7983	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	HU	161559166	3051710	3051710	Yes	
7984	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	IE	161559166	3051710	3051710	Yes	
7985	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	NL	161559166	3051710	3051710	Yes	
7986	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		ETD	PAT-Active	SK	161559166	3051710	3051710	Yes	
7987	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	EE	138429642	2901741	2901741	Yes	
7988	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	ES	138429642	2901741	2901741	Yes	
7989	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	FR	138429642	2901741	2901741	Yes	
7990	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	GB	138429642	2901741	2901741	Yes	
7991	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	GR	138429642	2901741	2901741	Yes	
7992	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	HU	138429642	2901741	2901741	Yes	
7993	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	IE	138429642	2901741	2901741	Yes	
7994	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	NL	138429642	2901741	2901741	Yes	
7995	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		EPT	PAT-Active	SK	138429642	2901741	2901741	Yes	
7996	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		FPD	APP-Pending	HK	161075493		1219608	Yes	
7997	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		PCT	PAT-Active	KR	10-2015-7005070	10-1653512	10-2015-0039805	Yes	
7998	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]		PCD	PAT-Active	KR	10-2016-7022045	10-1700079	10-2016-0101205	Yes	
7999	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		NP	PAT-Active	US	13/928690	9462555	US-2014-0092799-A1	Yes	
8000	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCT	PAT-Active	CN	2013800450539	ZL2013800450539	104584672	Yes	
8001	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		DIV	PAT-Active	US	15/259319	10085172	US-2016-0381730-A1	Yes	
8002	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	EP	138427034	2901804	2901804	Yes	
8003	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	AT	138427034	2901804	2901804	Yes	
8004	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	BE	138427034	2901804	2901804	Yes	
8005	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	CH	138427034	2901804	2901804	Yes	
8006	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	DE	138427034	########	2901804	Yes	
8007	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	EE	138427034	2901804	2901804	Yes	
8008	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	ES	138427034	2901804	2901804	Yes	
8009	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	FR	138427034	2901804	2901804	Yes	
8010	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	GB	138427034	2901804	2901804	Yes	
8011	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	GR	138427034	2901804	2901804	Yes	
8012	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	HU	138427034	2901804	2901804	Yes	
8013	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	IE	138427034	2901804	2901804	Yes	
8014	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	NL	138427034	2901804	2901804	Yes	
8015	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		EPT	PAT-Active	SK	138427034	2901804	2901804	Yes	
8016	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCT	PAT-Active	KR	10-2015-7004216	10-1684196	10-2015-0032747	Yes	
8017	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]		PCD	PAT-Active	KR	10-2016-7033605	10-1777538	10-2016-0142893	Yes	
8018	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]		NP	PAT-Active	US	13/928722	9973315	US-2014-0092829-A1	Yes	
8019	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]		PCT	PAT-Active	AU	2013323624	########	2013323624	Yes	
8020	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]		PCD	PAT-Active	AU	2016204096	########	2016204096	Yes	
8021	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]		PCD	PAT-Active	AU	2017219013	########	2017219013	Yes	
8022	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]		PCT	APP-Pending	BR	112015004584-7		112015004584-7	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8023	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Pending	US	15/941508		US-2018-0227104-A1	Yes	
8024	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CA	2882353	2882353	2882353	Yes	
8025	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380043052.8	ZL201380043052.8	104604314	Yes	
8026	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	CN	201811209054.5		109286807	Yes	
8027	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8028	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	13841098.0	2901788	2901788	Yes	
8029	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	13841098.0	2901788	2901788	Yes	
8030	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	13841098.0	2901788	2901788	Yes	
8031	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	13841098.0	2901788	2901788	Yes	
8032	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	EP	17196578.3	3316643	3316643	Yes	
8033	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	DE	17196578.3	########	3316643	Yes	
8034	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	FR	17196578.3	3316643	3316643	Yes	
8035	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	GB	17196578.3	3316643	3316643	Yes	
8036	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	ETD	PAT-Active	NL	17196578.3	3316643	3316643	Yes	
8037	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	13841098.0	########	2901788	Yes	
8038	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	13841098.0	2901788	2901788	Yes	
8039	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	13841098.0	2901788	2901788	Yes	
8040	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	13841098.0	2901788	2901788	Yes	
8041	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	13841098.0	2901788	2901788	Yes	
8042	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	13841098.0	2901788	2901788	Yes	
8043	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	13841098.0	2901788	2901788	Yes	
8044	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	13841098.0	2901788	2901788	Yes	
8045	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	13841098.0	2901788	2901788	Yes	
8046	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	13841098.0	2901788	2901788	Yes	
8047	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	15110913.6		1210353	Yes	
8048	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201501817	IDP000054299	2017/02524	Yes	
8049	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	566/CHENP/2015		566/CHENP/2015	Yes	
8050	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	JP	2017-085429		2017-158134	Yes	
8051	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005081	10-1726951	10-2015-0038429	Yes	
8052	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7009344	10-1786435	10-2017-0042805	Yes	
8053	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2017-7027842	10-1988788	10-2017-0116235	Yes	
8054	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/001104	351625	MX/a/2015/001104	Yes	
8055	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2017/012887	364238		Yes	
8056	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8057	COMMUNICATION DEVICE MOBILE TERMINAL METHOD FOR REQUESTING INFORMATION AND METHOD FOR PROVIDING INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/803042	9407307	US-2014-0153482-A1		
8058	METHOD AND RELATED MOBILE DEVICE FOR SEARCHING FOR A MOBILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/937046	9185640	US-2015-0011207-A1		
8059	TECHNIQUES FOR DETERMINING COVARIANCE MEASURES BASED ON CORRELATION CRITERIA	[redacted]	[redacted]	NP	PAT-Active	CN	201410462978X	ZL201410462978X	104467937		
8060	SYNCHRONIZING PHASES BETWEEN LOCAL LO GENERATION CIRCUITS	[redacted]	[redacted]	NP	PAT-Active	US	14/047117	9054855	US-2015-0098541-A1		
8061	APPARATUS AND METHOD FOR DETERMINING INFORMATION ON A POWER VARIATION OF A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/341119	9588158	US-2015-0035545-A1		
8062	APPARATUS AND METHOD FOR DETERMINING INFORMATION ON A POWER VARIATION OF A TRANSMIT SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	15/419654	10051578	US-2017-0295547-A1		
8063	APPARATUS AND METHOD FOR DETERMINING INFORMATION ON A POWER VARIATION OF A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201410368241.2	ZL201410368241.2	104348438		
8064	VORRICHTUNG UND VERFAHREN ZUR BESTIMMUNG EINER INFORMATION ÜBER EINE LEISTUNGSSCHWANKUNG EINES SENDESIGNALS	[redacted]	[redacted]	NP	APP-Pending	DE	102013108128.2		102013108128		
8065	DEVICE AND METHOD FOR CHANNEL ESTIMATION AND SIGNAL DEMODULATION	[redacted]	[redacted]	NP	PAT-Active	US	14/093768	9338037	US-2015-0156036-A1		
8066	METHOD AND RELATED MOBILE DEVICE FOR CELL SEARCH IN MULTI RADIO ACCESS TECHNOLOGY SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/954563	9369948	US-2015-0038137-A1		
8067	POWER SAVING TECHNIQUE FOR DIGITAL TO TIME CONVERTERS	[redacted]	[redacted]	NP	PAT-Active	US	14/039996	9847676	US-2015-0091364-A1		
8068	POWER SAVING TECHNIQUE FOR DIGITAL TO TIME CONVERTERS	[redacted]	[redacted]	NP	PAT-Active	CN	201410816465.8	ZL201410816469.6	104519558		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8069	POWER SAVING TECHNIQUE FOR DIGITAL TO TIME CONVERTERS	[redacted]	[redacted]	NP	APP-Pending	DE	1020140142698		102014014269		
8070	METHOD FOR NOISE SHAPING AND A NOISE SHAPING FILTER	[redacted]	[redacted]	NP	APP-Pending	US	13/946457		US-2015-0023415-A1		
8071	A METHOD FOR NOISE SHAPING AND A NOISE SHAPING FILTER	[redacted]	[redacted]	NP	PAT-Active	CN	2014104452582	ZL2014104 452582	104300913		
8072	A METHOD FOR NOISE SHAPING AND A NOISE SHAPING FILTER	[redacted]	[redacted]	NP	PAT-Active	DE	1020141096223	########	102014109622		
8073	MOBILE RADIO COMMUNICATION DEVICES MOBILE RADIO COMMUNICATION NETWORKS AND METHODS FOR CONTROLLING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	14/025901	9301331	US-2015-0079971-A1		
8074	MOBILE RADIO COMMUNICATION DEVICES MOBILE RADIO COMMUNICATION NETWORKS AND METHODS FOR CONTROLLING THE SAME	[redacted]	[redacted]	CNT	PAT-Active	US	15/047733	10064226	US-2016-0323929-A1		
8075	A METHOD FOR DETERMINING A TRANSMISSION DIRECTION FOR A COMMUNICATION A METHOD FOR DETERMINING A PRECODING MATRIX FOR A COMMUNICATION AND A DEVICE CONFIGURED TO DOTHE SAME	[redacted]	[redacted]	NP	PAT-Active	CN	201410457169X	ZL2014104 57169X	104426635		
8076	A METHOD FOR DETERMINING A TRANSMISSION DIRECTION FOR A COMMUNICATION A METHOD FOR DETERMINING A PRECODING MATRIX FOR A COMMUNICATION AND A DEVICE CONFIGURED TO DOTHE SAME	[redacted]	[redacted]	DIV	APP-Pending	CN	2017100863828		107070510		
8077	A METHOD FOR DETERMINING A TRANSMISSION DIRECTION FOR A COMMUNICATION A METHOD FOR DETERMINING A PRECODING MATRIX FOR A COMMUNICATION AND A DEVICE CONFIGURED TO DO THE SAME	[redacted]	[redacted]	NP	APP-Pending	DE	1020141112849		102014111284		
8078	COMMUNICATION TERMINAL DEVICE AND METHOD FOR OPERATING A COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/028583	9246637	US-2015-0078251-A1		
8079	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201406871	IDP000046 756	2016/02885	Yes	
8080	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	APP-Pending	IN	7573/CHENP/2014		7573/CHENP/2014	Yes	
8081	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2014/013756	342526	MX/a/2014/013756	Yes	
8082	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8083	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	PAT-Active	US	14/124536	9444569	US-2015-0036569-A1	Yes	
8084	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800204539	ZL2014800 204539	105359586		
8085	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161089549		1221107		
8086	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/786145	9872197	US-2016-0073287-A1		
8087	APPARATUS AND A METHOD FOR DETERMINING INFORMATION ON AN AMPLITUDE ERROR OF A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/591210	9264188	US-2015-0244504-A1		
8088	AN APPARATUS AND A METHOD FOR DETERMINING INFORMATION ON AN AMPLITUDE ERROR OF A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	1020141023102		102014102310		
8089	PLATFORM INDEPENDENT ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	14/134632	10205244	US-2015-0180123-A1		
8090	PHASENREGELSCHALTKREIS VERFAHREN ZUM ERZEUGEN EINES AUSWERTUNGSSIGNALS EIN GERÄT ZUM ERZEUGEN EINES AUSWERTUNGSSIGNALS UND EINE ELEKTRONISCHE VORRICHTUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131108237		102013110823		
8091	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	US	14/062982		US-2014-0349584-A1		
8092	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/137021		US-2016-0301456-A1		
8093	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	2014102207105	ZL2014102 207105	104185230		
8094	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	DIV	APP-Pending	CN	2016102532098		105846881		
8095	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	DE	1020141041976		102014104197		
8096	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8097	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	JP	2014-104261	5789033	2014-230279		
8098	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800480897	ZL2014800 480897	105493457		
8099	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	APP-Pending	EP	148472517		3053313		
8100	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	[redacted]	[redacted]	FPR	APP-Pending	HK	161112292		1223206		
8101	HYBRID BEAMFORMING FOR DATA TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125258	9225404	US-2015-0139292-A1		
8102	ORTHOLOGONAL BEAMFORMING FOR MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MU-MIMO)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800736907	ZL2013800 736907	105027461		
8103	ORTHOGONAL BEAMFORMING FOR MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MU-MIMO)	[redacted]	[redacted]	FPR	APP-Pending	HK	161049511		1217060		
8104	ORTHOLOGONAL BEAMFORMING FOR MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MU-MIMO)	[redacted]	[redacted]	PCT	PAT-Active	US	14/125330	9461723	US-2014-0341048-A1		
8105	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800503470	ZL2013800 503470	104662951	Yes	
8106	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	EP	138483383	2912881	2912881	Yes	
8107	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	AT	138483383	2912881	2912881	Yes	
8108	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	BE	138483383	2912881	2912881	Yes	
8109	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	CH	138483383	2912881	2912881	Yes	
8110	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	DE	138483383	2912881	2912881	Yes	
8111	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	UM	PAT-Active	DE	2020130126620	########		Yes	
8112	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	EE	138483383	2912881	2912881	Yes	
8113	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	ES	138483383	2912881	2912881	Yes	
8114	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	FR	138483383	2912881	2912881	Yes	
8115	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	GB	138483383	2912881	2912881	Yes	
8116	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	GR	138483383	2912881	2912881	Yes	
8117	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	HU	138483383	2912881	2912881	Yes	
8118	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	IE	138483383	2912881	2912881	Yes	
8119	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	NL	138483383	2912881	2912881	Yes	
8120	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	SK	138483383	2912881	2912881	Yes	
8121	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7007649	10-1669777	10-2015-0047590	Yes	
8122	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7028736	10-1929105	10-2016-0122283	Yes	
8123	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125324	10314015	US-2015-0103664-A1	Yes	
8124	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800503926	ZL2013800 503926	104685816	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8125	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCD	APP-Pending	CN	2017109521667		107517096	Yes	
8126	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	FPD	APP-Pending	HK	181050668		1246025	Yes	
8127	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	EPT	APP-Pending	EP	138481858		2912796	Yes	
8128	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-537691	6023342	2015-537438	Yes	
8129	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-198344	6332650	2017-022779	Yes	
8130	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION REQUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7007653	10-1749841	10-2015-0048198	Yes	
8131	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION REQUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2018-7009179	10-1895758	10-2018-0036800	Yes	
8132	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125325	9397945	US-2015-0016311-A1	Yes	
8133	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	14/555317	9191326	US-2015-0085722-A1	Yes	
8134	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	14/927099	9608910	US-2016-0066302-A1	Yes	
8135	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	15/403004	9794919	US-2017-0135091-A1	Yes	
8136	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION RE-QUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	15/725203	10271319	US-2018-0098318-A1	Yes	
8137	COMMUNICATION OF POWER CONSUMPTION CONFIGURATIONS DURING HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800574071	ZL2004100 620532	104782167	Yes	
8138	COMMUNICATION OF POWER CONSUMPTION CONFIGURATIONS DURING HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	US	14/125481	9515689	US-2015-0195800-A1	Yes	
8139	ADAPTIVE SECTORIZATION OF A SPATIONAL REGION FOR PARALLEL MULTI-USER TRANSMISSIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800787491	ZL2013800 787491	105474556		
8140	ADAPTIVE SECTORIZATION OF A SPATIONAL REGION FOR PARALLEL MULTI-USER TRANSMISSIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	161115100		1223459		
8141	ADAPTIVE SECTORIZATION OF A SPATIONAL REGION FOR PARALLEL MULTI-USER TRANSMISSIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/126037	9461727	US-2015-0131750-A1		
8142	SEQUENCE GENERATION FOR CELL SPECIFIC REFERENCE SIGNAL (CRS)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800580778	ZL2013800 580778	104782062		
8143	SEQUENCE GENERATION FOR CELL SPECIFIC REFERENCE SIGNAL (CRS)	[redacted]	[redacted]	PCT	PAT-Active	US	14/122642	9265068	US-2015-0189677-A1		
8144	DEVICE-TO-DEVICE DISTRIBUTED SCHEDULING	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800575712	ZL2013800 575712	104770045		
8145	NEW CARRIER TYPE (NCT) INFORMATION EMBEDDED IN SYNCHRONIZATION SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800568329	ZL2013800 568329	104756418		
8146	CARRIER TYPE (NCT) INFORMATION EMBEDDED IN SYNCHRONIZATION SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	14/128343	9516659	US-2014-0254567-A1		
8147	SIMULTANEOUS TRANSMIT AND RECEIVE (STR) STRUCTURES IMMUNE TO PHASE AND AMPLITUDE IMBALANCES	[redacted]	[redacted]	PCT	PAT-Active	US	14/128278	9282564	US-2015-0009867-A1		
8148	CSI-RS ANTENNA PORTS EXTENSION AND 3D CODEBOOK DESIGN	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800792184	ZL2013800 792184	105659655		
8149	CSI-RS ANTENNA PORTS EXTENSION AND 3D CODEBOOK DESIGN	[redacted]	[redacted]	EPT	APP-Pending	EP	138941638		3050343		
8150	CSI-RS ANTENNA PORTS EXTENSION AND 3D CODEBOOK DESIGN	[redacted]	[redacted]	FPR	APP-Pending	HK	161126009		1224490		
8151	CSI-RS ANTENNA PORTS EXTENSION AND 3D CODEBOOK DESIGN	[redacted]	[redacted]	PCT	PAT-Active	US	14/128338	9438451	US-2015-0180684-A1		
8152	TECHNIQUES FOR BEAMFORMING TO MITIGATE MULTI-USER LEAKAGE AND INTERFERENCE	[redacted]	[redacted]	PCT	PAT-Active	US	14/128614	9252853	US-2015-0200718-A1		
8153	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800653016	ZL2013800 653016	104871587		
8154	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	EP	138710751	2944115	2944115		
8155	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	AT	138710751	2944115	2944115		
8156	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	DE	138710751	2944115	2944115		
8157	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	EE	138710751	2944115	2944115		
8158	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	ES	138710751	2944115	2944115		
8159	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	FR	138710751	2944115	2944115		
8160	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	GB	138710751	2944115	2944115		
8161	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	GR	138710751	2944115	2944115		
8162	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	HU	138710751	2944115	2944115		
8163	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	NL	138710751	2944115	2944115		
8164	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	EPT	PAT-Active	SK	138710751	2944115	2944115		
8165	TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/129952	9603104	US-2015-0201352-A1		
8166	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800632857	ZL2013800 632857	105229937	Yes	
8167	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	PCD	APP-Pending	CN	2019104965266		110149170	Yes	
8168	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	EPT	PAT-Active	EP	138703111	2941833	2941833	Yes	
8169	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	EPT	PAT-Active	DE	138703111	########	2941833		
8170	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	EPT	PAT-Active	FR	138703111	2941833	2941833		
8171	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	EPT	PAT-Active	GB	138703111	2941833	2941833		
8172	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	EPT	PAT-Active	NL	138703111	2941833	2941833		
8173	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	FPR	APP-Pending	HK	161070112		1219182	Yes	
8174	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCT	APP-Pending	IN	3009/CHENP/2015		3009/CHENP/2015	Yes	
8175	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-143245	6479716	2016-187222	Yes	
8176	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCD	APP-Pending	JP	2016-233964		2017-055449	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8177	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2015-7014633		10-2015-0082448	Yes	
8178	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2017-7028563		10-2017-0125952	Yes	
8179	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	PCT	PAT-Active	US	14/411499	9986477	US-2015-0163039-A1	Yes	
8180	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	CNT	APP-Pending	US	15/990643		US-2019-0007878-A1	Yes	
8181	RANK INDICATOR INHERITANCE FOR SUBFRAME RESTRICTED CHANNEL STATE INFORMATION REPORTING	[redacted]	[redacted]	PCT	PAT-Active	US	14/759109	9854490	US-2015-0341817-A1		
8182	APPARATUS AND METHOD FOR CROSS-CARRIER QUASI CO-LOCATION SIGNALING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800618525	ZL2013800618525	104813602		
8183	APPARATUS AND METHOD FOR CROSS-CARRIER QUASI CO-LOCATION SIGNALING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/759116	9763154	US-2015-0341882-A1		
8184	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/759119	10028187	US-2015-0341818-A1		
8185	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800632293	ZL2013800632293	105122868	Yes	
8186	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	138702659	2941918	2941918	Yes	
8187	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	138702659	2941918	2941918	Yes	
8188	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	138702659	2941918	2941918	Yes	
8189	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	138702659	2941918	2941918	Yes	
8190	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	138702659	########	2941918	Yes	
8191	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	138702659	2941918	2941918	Yes	
8192	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	138702659	2941918	2941918	Yes	
8193	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	138702659	2941918	2941918	Yes	
8194	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	138702659	2941918	2941918	Yes	
8195	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	138702659	2941918	2941918	Yes	
8196	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	138702659	2941918	2941918	Yes	
8197	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	138702659	2941918	2941918	Yes	
8198	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	138702659	2941918	2941918	Yes	
8199	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	138702659	2941918	2941918	Yes	
8200	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161057789		1217856	Yes	
8201	WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT (AP) METHOD AND SYSTEM FOR PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INWIRELESS CELLULAR NETWORKS AND COMPUTER-READABLE STORAGE MEDIUM	[redacted]	[redacted]D	DIV	PAT-Active	TW	104143864	I583213	201628427	Yes	
8202	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/128018	9936431	US-2015-0103648-A1	Yes	
8203	BASEBAND CANCELLATION OF DIRECT SEQUENCE SPREAD SPECTRUM PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800308769	ZL2014800308769	105474551		
8204	BASEBAND CANCELLATION OF DIRECT SEQUENCE SPREAD SPECTRUM PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	FPR	APP-Pending	HK	161115128		1223460		
8205	MAPPING SPECIAL SUBFRAMES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800661046	ZL2013800661046	104871447		
8206	MAPPING SPECIAL SUBFRAMES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/127891	9503892	US-2015-0009870-A1		
8207	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800781781	ZL2013800781781	105659657		
8208	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	138914601	3033905	3033905		
8209	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	138914601	3033905	3033905		
8210	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	138914601	3033905	3033905		
8211	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	138914601	3033905	3033905		
8212	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	138914601	3033905	3033905		
8213	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	138914601	3033905	3033905		
8214	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	138914601	3033905	3033905		
8215	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	138914601	3033905	3033905		
8216	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	138914601	3033905	3033905		
8217	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	138914601	3033905	3033905		
8218	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	138914601	3033905	3033905		
8219	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	138914601	3033905	3033905		
8220	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	138914601	3033905	3033905		
8221	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	138914601	3033905	3033905		
8222	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161125965		1224487		
8223	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/122961	9258734	US-2015-0043336-A1		
8224	MANAGING COMMUNICATIONS IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161089638		1221589		
8225	MANAGING COMMUNICATIONS IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/122963	9277493	US-2015-0043349-A1		
8226	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	138609342	2926477	2926477	Yes	
8227	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	138609342	2926477	2926477	Yes	
8228	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	138609342	2926477	2926477	Yes	
8229	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	138609342	2926477	2926477	Yes	
8230	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	EP	171561756	3185446	3185446	Yes	
8231	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Active	AT	171561756	3185446	3185446	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8232	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	BE	171561756	3185446	3185446	Yes	
8233	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	CH	171561756	3185446	3185446	Yes	
8234	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	DE	171561756	3185446	3185446	Yes	
8235	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	DE	138609342	2926477	2926477	Yes	
8236	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	EE	171561756	3185446	3185446	Yes	
8237	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	ES	171561756	3185446	3185446	Yes	
8238	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	FR	171561756	3185446	3185446	Yes	
8239	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	GB	171561756	3185446	3185446	Yes	
8240	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	GR	171561756	3185446	3185446	Yes	
8241	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		FPD	PAT-Active	HK	171138442	1240421	1240421	Yes	
8242	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	HU	171561756	3185446	3185446	Yes	
8243	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	IE	171561756	3185446	3185446	Yes	
8244	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	NL	171561756	3185446	3185446	Yes	
8245	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		ETD	PAT-Active	SK	171561756	3185446	3185446	Yes	
8246	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	EE	138609342	2926477	2926477	Yes	
8247	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	ES	138609342	2926477	2926477	Yes	
8248	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	FR	138609342	2926477	2926477	Yes	
8249	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	GB	138609342	2926477	2926477	Yes	
8250	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	GR	138609342	2926477	2926477	Yes	
8251	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	HU	138609342	2926477	2926477	Yes	
8252	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	IE	138609342	2926477	2926477	Yes	
8253	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	NL	138609342	2926477	2926477	Yes	
8254	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		EPT	PAT-Active	SK	138609342	2926477	2926477	Yes	
8255	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		PCT	PAT-Active	US	14/127900	9525446	US-2015-0264594-A1	Yes	
8256	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		CNT	PAT-Active	US	15/343196	9900033	US-2017-0078909-A1	Yes	
8257	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]		CNT	PAT-Active	US	15/852986	10277264	US-2018-0191388-A1	Yes	196
8258	CENTRALIZED PARTITIONING OF USER DEVICES IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]		PCT	PAT-Active	US	14/129197	9226211	US-2015-0201374-A1		
8259	ENERGY-HARVESTING DEVICES IN WIRELESS NETWORKS	[redacted]		PCT	PAT-Active	CN	2013800640552	ZL2013800640552	104854773		
8260	ENERGY-HARVESTING DEVICES IN WIRELESS NETWORKS	[redacted]		PCT	PAT-Active	US	14/127928	9271242	US-2015-0201342-A1		
8261	DIGITAL VOLTAGE RAMP GENERATOR	[redacted]		NP	PAT-Active	CN	2014106423086	ZL2014106423086	104601148		
8262	DIGITAL VOLTAGE RAMP GENERATOR	[redacted]		EPA	APP-Pending	EP	141866459		2869468		
8263	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		PCT	PAT-Active	CN	2014800234074	ZL2014800234074	105191171	Yes	
8264	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		EPT	PAT-Active	EP	148035934	3005584	3005584	Yes	
8265	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		EPT	PAT-Active	DE	148035934	3005584	3005584		
8266	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		EPT	PAT-Active	FR	148035934	3005584	3005584		
8267	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		EPT	PAT-Active	GB	148035934	3005584	3005584		
8268	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		EPT	PAT-Active	NL	148035934	3005584	3005584		
8269	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]		FPR	APP-Pending	HK	161067466		1218809	Yes	
8270	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCT	PAT-Active	CN	2013800358941	ZL2013800358941	104412554	Yes	
8271	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCD	APP-Pending	CN	2018109492141		108965193	Yes	
8272	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		FPD	APP-Pending	HK	191009687		1258609	Yes	
8273	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		FPR	PAT-Active	HK	151064987	1206164	1206164	Yes	
8274	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCT	APP-Pending	ID	P00201500022		2017/01489	Yes	
8275	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCT	APP-Pending	IN	212/CHENP/2015		212/CHENP/2015	Yes	
8276	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCT	PAT-Active	JP	2015-521889	6181755	2015-528246	Yes	
8277	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]		PCD	PAT-Active	JP	2017-140799	6483209	2017-188962	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9660	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	CNT	PAT-Active	US	14/918990	9930647	US-2016-0192410-A1	Yes	
9661	PROGRESSIVE CHANNEL STATE INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161070078		1219181		
9662	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	NP	PAT-Active	US	14/135315	9351229	US-2015-0181502-A1		
9663	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	CNT	PAT-Active	US	15/162075	10051543	US-2016-0269966-A1		
9664	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800631399	ZL2014800 631399	105745965		
9665	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	EPT	APP-Pending	EP	148708506		3085156		
9666	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	FPR	APP-Pending	HK	161130995		1224881		
9667	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-526926	6322851	2017-504984		
9668	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7011649	10-1778905	10-2016-0065189		
9669	METHOD FOR EFFICIENT CHANNEL ESTIMATION AND BEAMFORMING IN FDD SYSTEM BY EXPLOITING UPLINK-DOWNLINK CORRESPONDENCE	[redacted]	[redacted]	NP	PAT-Active	US	14/109211	9814037	US-2015-0003338-A1		
9670	METHOD FOR EFFICIENT CHANNEL ESTIMATION AND BEAMFORMING IN FDD SYSTEM BY EXPLOITING UPLINK-DOWNLINK CORRESPONDENCE	[redacted]	[redacted]	CNT	APP-Pending	US	15/804360		US-2018-0110049-A1		
9671	METHOD FOR SELECTING AT LEAST ONE PARAMETER FOR DOWNLINK DATA TRANSMISSION WITH A MOBILE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800296494	ZL2014800 296494	105229934		
9672	METHOD FOR SELECTING AT LEAST ONE PARAMETER FOR DOWNLINK DATA TRANSMISSION WITH A MOBILE USER EQUIPMENT	[redacted]	[redacted]	PCD	APP-Pending	CN	2018110767164		109561463		
9673	METHOD FOR SELECTING AT LEAST ONE PARAMETER FOR DOWNLINK DATA TRANSMISSION WITH A MOBILE USER EQUIPMENT	[redacted]	[redacted]	FPR	PAT-Active	HK	161072548	1219355	1219355		
9674	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800616651	ZL2014800 616651	105745845		
9675	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	EP	148726938	3084979	3084979		
9676	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	AT	148726938	3084979	3084979		
9677	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	BE	148726938	3084979	3084979		
9678	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	CH	148726938	3084979	3084979		
9679	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	DE	148726938	3084979	3084979		
9680	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	EE	148726938	3084979	3084979		
9681	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	ES	148726938	3084979	3084979		
9682	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	FR	148726938	3084979	3084979		
9683	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	GB	148726938	3084979	3084979		
9684	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	GR	148726938	3084979	3084979		
9685	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	HU	148726938	3084979	3084979		
9686	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	IE	148726938	3084979	3084979		
9687	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	NL	148726938	3084979	3084979		
9688	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	EPT	PAT-Active	SK	148726938	3084979	3084979		
9689	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	FPR	APP-Pending	HK	161125974		1224445		
9690	LICENSE SHARED ACCESS IN CELLULAR NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/136755	9713147	US-2015-0181601-A1		
9691	LICENSE SHARED ACCESS IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800634594	ZL2014800 634594	105745859		
9692	LICENSE SHARED ACCESS IN CELLULAR NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	148188816		3085001		
9693	LICENSE SHARED ACCESS IN CELLULAR NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161131002		1224848		
9694	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	NP	PAT-Active	US	14/141206	9655107	US-2015-0003543-A1		
9695	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800306335	ZL2014800 306335	105284059		
9696	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	FPR	APP-Pending	HK	161070069		1218999		
9697	APPARATUS SYSTEM AND METHOD OF CONTROLLING A WIRELESS DOCKING DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/227395	9319981	US-2015-0282073-A1		
9698	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800069160		105960827		
9699	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157577750		3114896		
9700	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025415		201647025415		
9701	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552596	6328783	2017-512407		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9702	METHOD AND DEVICE FOR INTERFERER SCHEDULING DETECTION AND NOISE AND INTERFERER PARAMETER ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	US	14/660094	9832667	US-2015-0271687-A1		
9703	METHOD AND DEVICE FOR INTERFERER SCHEDULING DETECTION AND NOISE AND INTERFERER PARAMETER ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	CN	2015100849588	ZL2015100 849588	104936219		
9704	METHOD AND DEVICE FOR INTERFERER SCHEDULING DETECTION AND NOISE AND INTERFERER PARAMETER ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	DE	1020141038533	########	102014103853		
9705	DECODER AND METHOD FOR DECODING AN ENCODED SEQUENCE OF BITS	[redacted]	[redacted]	NP	PAT-Active	US	14/445146	9419656	US-2016-0036465-A1		
9706	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/801872	9673850	US-2016-0049970-A1		
9707	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2015104098319	ZL2015104 098319	105375944		
9708	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	3265/CHE/2015		3265/CHE/2015		
9709	METHOD AND DEVICE FOR PROCESSING RESOURCE BLOCKS	[redacted]	[redacted]	NP	PAT-Active	US	14/660029	9787446	US-2015-0270934-A1		
9710	METHOD AND DEVICE FOR PROCESSING RESOURCE BLOCKS	[redacted]	[redacted]	NP	APP-Pending	CN	2015100775279		104936299		
9711	METHOD AND DEVICE FOR PROCESSING RESOURCE BLOCKS	[redacted]	[redacted]	NP	PAT-Active	DE	1020141037022	########	102014103702		
9712	METHOD AND RELATED MOBILE DEVICE FOR COMPLEXITY REDUCED CELL SEARCHING	[redacted]	[redacted]	NP	PAT-Active	DE	1020141044614	########	102014104461		
9713	QUANTIZATION CIRCUIT AND METHOD FOR QUANTIZING AN INPUT QUANTITY	[redacted]	[redacted]	NP	PAT-Active	US	14/630953	9432039	US-2015-0280724-A1		
9714	QUANTIZATION CIRCUIT AND METHOD FOR QUANTIZING AN INPUT QUANTITY	[redacted]	[redacted]	NP	PAT-Active	CN	2015100871045	ZL2015100 871045	104954010		
9715	QUANTIZATION CIRCUIT AND METHOD FOR QUANTIZING AN INPUT QUANTITY	[redacted]	[redacted]	NP	PAT-Active	DE	1020141041429	########	102014104142		
9716	QUANTIZATION CIRCUIT AND METHOD FOR QUANTIZING AN INPUT QUANTITY	[redacted]	[redacted]	NP	PAT-Active	TW	104104563	I592809	201543231		
9717	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	US	14/564162	9692366	US-2016-0164550-A1		
9718	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	CN	2015107513205	ZL2015107 513205	105680807		
9719	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	EP	151937547	3032737	3032737		
9720	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	DE	151937547	3032737	3032737		
9721	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	FR	151937547	3032737	3032737		
9722	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	GB	151937547	3032737	3032737		
9723	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	EPA	PAT-Active	NL	151937547	3032737	3032737		
9724	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	NP	APP-Pending	IN	5481/CHE/2015		5481/CHE/2015		
9725	APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/858133	9722645	US-2016-0182101-A1		
9726	AN APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2015107967551	ZL2015107 967551	105720998		
9727	AN APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	1020141190718		102014119071		
9728	AN APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	5990/CHE/2015		5990/CHE/2015		
9729	AN APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104137536	I600283	201640830		
9730	SYSTEMS AND METHODS FOR COMBINING POWER THROUGH A TRANSFORMER	[redacted]	[redacted]	NP	PAT-Active	US	14/165152	9306503	US-2015-0214896-A1		
9731	SYSTEMS AND METHODS FOR COMBINING POWER THROUGH A TRANSFORMER	[redacted]	[redacted]	NP	APP-Pending	DE	1020141192680		102014119268		
9732	SYSTEMS AND METHODS FOR ENHANCING PROBABILITY OF INTERNAL MEASUREMENTS IN CROWDED ENVIRONMENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/276555	9356631	US-2015-0333779-A1		
9733	SYSTEMS AND METHODS FOR ENHANCING PROBABILITY OF INTERNAL MEASUREMENTS IN CROWDED ENVIRONMENTS	[redacted]	[redacted]	NP	PAT-Active	CN	2015101608165	ZL2015101 608165	105099576		
9734	SYSTEMS AND METHODS FOR ENHANCING PROBABILITY OF INTERNAL MEASUREMENTS IN CROWDED ENVIRONMENTS	[redacted]	[redacted]	NP	APP-Pending	DE	1020151051664		102015105166		
9735	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9736	SYSTEMS AND METHODS FOR ENHANCING PROBABILITY OF INTERNAL MEASUREMENTS IN CROWDED ENVIRONMENTS	[redacted]	[redacted]	NP	PAT-Active	TW	104111274	I575970	201607339		
9737	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800101195	ZL2014800 101195	105075304	Yes	
9738	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCD	APP-Pending	CN	201910399211X		110225508	Yes	
9739	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	EPT	APP-Pending	EP	147735989		2979472	Yes	
9740	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	FPR	APP-Pending	HK	161051124		1217147	Yes	
9741	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	APP-Pending	IN	4969/CHENP/2015		4969/CHENP/2015	Yes	
9742	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-505572	6263817	2016-515774	Yes	
9743	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-019975	6443466	2017-108439	Yes	
9744	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7023318	10-1793107	10-2015-0113101	Yes	
9745	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7005647	10-1842850	10-2017-0026655	Yes	
9746	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	DIV	PAT-Active	KR	10-2018-7007881	10-2030944	10-2018-0037276	Yes	
9747	CONNECTION MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	NP	PAT-Active	TW	103111743	I514909	201505471	Yes	
9748	CONNECTION MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	DIV	PAT-Active	TW	104132545	I593299	201620328	Yes	
9749	CONNECTION MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	DIV	APP-Pending	TW	106116730		201811089	Yes	
9750	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	US	14/411498	9826390	US-2015-0146532-A1	Yes	
9751	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	CNT	APP-Pending	US	15/436693		US-2018-0020341-A1	Yes	
9752	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	CNT	APP-Pending	US	16/418273		US-2019-0313237-A1	Yes	
9753	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800101797	ZL2014800 101797	105103621	Yes	
9754	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	EP	147760011	2979495	2979495	Yes	
9755	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	AT	147760011	2979495	2979495	Yes	
9756	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	BE	147760011	2979495	2979495	Yes	
9757	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	CH	147760011	2979495	2979495	Yes	
9758	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	ETD	APP-Pending	EP	181522772		3327948	Yes	
9759	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	DE	147760011	2979495	2979495	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9760	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	EE	147760011	2979495	2979495	Yes	
9761	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	ES	147760011	2979495	2979495	Yes	
9762	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	FR	147760011	2979495	2979495	Yes	
9763	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	GB	147760011	2979495	2979495	Yes	
9764	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	GR	147760011	2979495	2979495	Yes	
9765	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	IE	147760011	2979495	2979495	Yes	
9766	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	NL	147760011	2979495	2979495	Yes	
9767	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	PAT-Active	SK	147760011	2979495	2979495	Yes	
9768	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	FPR	APP-Pending	HK	1161055085		1217582	Yes	
9769	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-558240	6158358	2016-510583	Yes	
9770	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	NP	PAT-Active	TW	103111452	I635310	201503726	Yes	
9771	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/770686	10212578	US-2016-0014632-A1	Yes	
9772	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	CIP	PAT-Active	US	14/598773	9743341	US-2015-0117213-A1	Yes	
9773	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Pending	BR	112017011034-2		112017011034-2	Yes	
9774	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/684327	10420037	US-2017-0311229-A1	Yes	
9775	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747019634		201747019634	Yes	
9776	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7015078		10-2017-0103504	Yes	
9777	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	NP	PAT-Active	TW	104140343	I605723	201628831	Yes	
9778	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	DIV	PAT-Active	TW	106129907	I651975	201808834	Yes	
9779	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480011880	ZL2014800111880	105191842	Yes	
9780	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	147796825	111680	2982193	Yes	
9781	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	ETD	APP-Pending	EP	16169538		3079385	Yes	
9782	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16106743		1218825	Yes	
9783	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	NP	PAT-Active	TW	103112535	I514796	201445905	Yes	
9784	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	DIV	PAT-Active	TW	104132547	I599186	201616822	Yes	
9785	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/771266	9998858	US-2016-0073402-A1	Yes	
9786	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/005615		US-2018-0359601-A1	Yes	
9787	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480011325	ZL2014800113258	105027464	Yes	
9788	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	147797294	2982053	2982053	Yes	
9789	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	147797294	2982053	2982053		
9790	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	147797294	2982053	2982053		
9791	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	147797294	2982053	2982053		
9792	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	147797294	2982053	2982053		
9793	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16104926		1216951	Yes	
9794	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	4988/CHENP/2015		4988/CHENP/2015	Yes	
9795	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-506328	6080188	2016-514923	Yes	
9796	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-032685	6443705	2017-085648	Yes	
9797	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7024115	10-1784195	10-2015-0114572	Yes	
9798	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2017-7025650		10-2017-0107088	Yes	
9799	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103112537	I527491	201448654	Yes	
9800	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	105100382	I600342	201632028	Yes	
9801	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	106127732	I646861	201735721	Yes	
9802	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/771130	9883338	US-2016-0007152-A1	Yes	
9803	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/861910	10206063	US-2018-0146331-A1	Yes	
9804	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480018424	ZL2014800184249	105103515		
9805	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	147875009	184349	2989728		
9806	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16105506		1217852		
9807	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	NP	PAT-Active	TW	103114205	I568207	201507388		
9808	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/771869	9974048	US-2016-0037547-A1		
9809	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	NP	PAT-Active	US	14/227775	9642034	US-2015-0281999-A1		
9810	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580009909		106031282		
9811	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17301615		1228167		
9812	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOSAWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647028358		201647028358		
9813	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-554617	6318267	2017-513291		
9814	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023368	10-1826773	10-2016-0114124		
9815	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480017758	ZL2014800177584	105052052	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9816	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	16105103B?		1217140	Yes	
9817	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	NP	PAT-Active	US	14/226656	9474095	US-2015-0282228-A1		
9818	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580013084 6X	ZL2015800 108466	106063365		
9819	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	FPR	APP-Pending	HK	1710194B7		1228631		
9820	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027855		201647027855		
9821	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-550229	6363216	2017-512090		
9822	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023327	10-1947050	10-2016-0114118		
9823	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	PCT	APP-Pending	CN	201480021864X		105340221	Yes	
9824	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	FPR	APP-Pending	HK	1610509?1		1221095	Yes	
9825	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-511737	6293872	2016-523027	Yes	
9826	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	NP	PAT-Active	TW	103115179	I644828	201509221	Yes	
9827	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	DIV	PAT-Active	TW	105115804	I646860	201707501	Yes	
9828	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	PCT	PAT-Active	US	14/778548	10135730	US-2016-0044660-A1	Yes	
9829	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	PCT	PAT-Active	CN	201580016833	ZL2015800 106339	105134145		
9830	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	FPR	APP-Pending	HK	1710511068		1229572		
9831	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027986		201647027986		
9832	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-550615	6370916	2017-513268		
9833	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023209	10-1900168	10-2016-0113225		
9834	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/229529	9337974	US-2015-0282123-A1		
9835	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580013056X	ZL2015800 110568	106063180		
9836	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	FPR	APP-Pending	HK	1710273B5		1229095		
9837	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647028512		201647028512		
9838	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552538	6372724	2017-515323		
9839	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023387	10-1953961	10-2016-0113259		
9840	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL	[redacted]	[redacted]	PCT	APP-Pending	CN	201480067779		105433867		
9841	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL	[redacted]	[redacted]	FPR	APP-Pending	HK	1611102B5		1222927		
9842	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	US	14/226264	9386608	US-2015-0003301-A1	Yes	
9843	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480030845X	ZL2014800 308453	105247804	Yes	
9844	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201710040568X		107071908	Yes	
9845	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	FPD	APP-Pending	HK	1810113?5		1242095	Yes	
9846	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	DIV	PAT-Active	US	15/136743	9844054	US-2016-0255628-A1	Yes	
9847	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/801126	10406310	US-2018-0070356-A1	Yes	
9848	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	ETD	APP-Pending	EP	171525959		3185609	Yes	
9849	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	FPR	APP-Pending	HK	1810739?4		1219579	Yes	
9850	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-517089	6240753	2016-530748	Yes	
9851	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-040494	6382378	2017-103823	Yes	
9852	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	TW	103115888	I652559	201709162	Yes	
9853	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	DIV	PAT-Active	TW	105124145	I619551	201717590	Yes	
9854	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	NP	PAT-Active	US	14/227937	9451535	US-2014-0293982-A1	Yes	
9855	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	CNT	PAT-Active	US	14/951295	9648555	US-2016-0081013-A1	Yes	
9856	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	CNT	PAT-Active	US	15/589912	10334514	US-2018-0063776-A1	Yes	
9857	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	PCT	PAT-Active	CN	201480010184B	ZL2014800 101848	105027629	Yes	
9858	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	EP	147725709	2979497	2979497	Yes	
9859	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	AT	147725709	2979497	2979497	Yes	
9860	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	BE	147725709	2979497	2979497	Yes	
9861	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	CH	147725709	2979497	2979497	Yes	
9862	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	EP	161690441	3086602	3086602	Yes	
9863	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	AT	161690441	3086602	3086602	Yes	
9864	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	BE	161690441	3086602	3086602	Yes	
9865	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	CH	161690441	3086602	3086602	Yes	
9866	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	DE	161690441	3086602	3086602	Yes	
9867	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	DE	147725709	2979497	2979497	Yes	
9868	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	EE	161690441	3086602	3086602	Yes	
9869	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	ES	161690441	3086602	3086602	Yes	
9870	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	FR	161690441	3086602	3086602	Yes	
9871	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	GB	161690441	3086602	3086602	Yes	
9872	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	GR	161690441	3086602	3086602	Yes	
9873	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	IE	161690441	3086602	3086602	Yes	
9874	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	NL	161690441	3086602	3086602	Yes	
9875	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	ETD	PAT-Active	SK	161690441	3086602	3086602	Yes	
9876	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	EE	147725709	2979497	2979497	Yes	
9877	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	ES	147725709	2979497	2979497	Yes	
9878	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	FR	147725709	2979497	2979497	Yes	
9879	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	GB	147725709	2979497	2979497	Yes	
9880	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	GR	147725709	2979497	2979497	Yes	
9881	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	IE	147725709	2979497	2979497	Yes	
9882	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	NL	147725709	2979497	2979497	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9883	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	SK	147725709	2979497	2979497	Yes	
9884	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	FPR	APP-Pending	HK	161049290		1216968	Yes	
9885	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7022591	10-1662777	10-2015-0110690	Yes	
9886	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7026924	10-2044313	10-2016-0117639	Yes	
9887	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	NP	PAT-Active	TW	103111759	I559797	201446040	Yes	
9888	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	DIV	PAT-Active	TW	105100563	I594646	201615047	Yes	
9889	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	[redacted]	[redacted]	DIV	PAT-Active	TW	106116721	I656802	201811080	Yes	
9890	FAST RADIO LINK RECOVERY FOR LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800108480		105144774	Yes	
9891	Fast Radio Link Recovery for LTE networks	[redacted]	[redacted]	FPR	APP-Pending	HK	161059732		1218035	Yes	
9892	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	[redacted]	[redacted]	PCD	APP-Pending	CN	201810316235X		108683484	Yes	
9893	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
9894	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	[redacted]	[redacted]	EPT	APP-Pending	EP	147802706		2982197	Yes	
9895	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	[redacted]	[redacted]	FPR	APP-Pending	HK	161048255		1216962	Yes	
9896	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	[redacted]	[redacted]	NP	PAT-Active	TW	103112140	I577200	201507501	Yes	
9897	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	[redacted]	[redacted]	PCT	PAT-Active	US	14/773296	9763235	US-2016-0029344-A1	Yes	
9898	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800172538		105103626	Yes	
9899	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	EPT	PAT-Active	EP	147888325	2989833	2989833	Yes	
9900	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	EPT	PAT-Active	DE	147888325	########	2989833	Yes	
9901	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	EPT	PAT-Active	FR	147888325	2989833	2989833	Yes	
9902	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	EPT	PAT-Active	GB	147888325	2989833	2989833	Yes	
9903	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	EPT	PAT-Active	NL	147888325	2989833	2989833	Yes	
9904	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	FPR	APP-Pending	HK	161058573		1218034	Yes	
9905	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	NP	PAT-Active	TW	103111226	I523555	201446027	Yes	
9906	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	[redacted]	[redacted]	PCT	PAT-Active	US	14/779228	10237846	US-2016-0050619-A1	Yes	
9907	WEARABLE COMPUTING SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800093189		106031295		
9908	WEARABLE COMPUTING SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	171016136		1228165		
9909	QUEUEING MECHANISM FOR CLIENT-SIDE NETWORK TRAFFIC TO REDUCE RADIO POWER CONSUMPTION ON MOBILE CLIENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/226690	9420537	US-2015-0282086-A1		
9910	QUEUEING MECHANISM FOR CLIENT-SIDE NETWORK TRAFFIC TO REDUCE RADIO POWER CONSUMPTION ON MOBILE CLIENTS	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800097048		106031222		
9911	QUEUEING MECHANISM FOR CLIENT-SIDE NETWORK TRAFFIC TO REDUCE RADIO POWER CONSUMPTION ON MOBILE CLIENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	171016145		1228166		
9912	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/247675	9591653	US-2015-0029910-A1	Yes	
9913	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/256105	9756649	US-2016-0374141-A1	Yes	
9914	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/456125	10064201	US-2017-0188373-A1	Yes	
9915	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	16/034177		US-2018-0338313-A1	Yes	
9916	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800355079	ZL2014800355079	105359429	Yes	
9917	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2018110440612		109660286	Yes	
9918	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
9919	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	FPR	PAT-Active	HK	161089558	1221081	1221081	Yes	
9920	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7036609	10-1733606	10-2016-0014003	Yes	
9921	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7011695	10-1808996	10-2017-0051535	Yes	
9922	USER EQUIPMENT (UE) ENHANCED NODE B (eNode B) AND METHOD IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103124271	I544826	201521495	Yes	
9923	USER EQUIPMENT (UE) ENHANCED NODE B (ENODE B) AND METHOD IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	105114916	I608753	201642701	Yes	
9924	USER EQUIPMENT (UE) ENHANCED NODE B (ENODE B) AND METHOD IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	106132989	I666962	201811092	Yes	
9925	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/231158	9585174	US-2015-0029875-A1		
9926	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800355083	ZL2014800355083	105359424		
9927	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	148291487	3025435	3025435		
9928	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	148291487	3025435	3025435		
9929	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	148291487	3025435	3025435		
9930	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	148291487	3025435	3025435		
9931	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	148291487	3025435	3025435		
9932	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	148291487	3025435	3025435		
9933	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	148291487	3025435	3025435		
9934	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	148291487	3025435	3025435		
9935	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	148291487	3025435	3025435		
9936	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	148291487	3025435	3025435		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9937	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	148291487	3025435	3025435		
9938	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IE	148291487	3025435	3025435		
9939	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	148291487	3025435	3025435		
9940	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	148291487	3025435	3025435		
9941	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	161089567		1221082		
9942	NETWORK COVERAGE HOLE DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/255216	9265076	US-2015-0031308-A1	Yes	
9943	NETWORK COVERAGE HOLE DETECTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/006758	9549421	US-2016-0142961-A1	Yes	
9944	NETWORK COVERAGE HOLE DETECTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/394408	9775081	US-2017-0111830-A1	Yes	
9945	NETWORK COVERAGE HOLE DETECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800365013	ZL2014800 365013	105453635	Yes	
9946	NETWORK COVERAGE HOLE DETECTION	[redacted]	[redacted]	FPR	APP-Pending	HK	161105834		1222499	Yes	
9947	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	2017100554966		107071724		
9948	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	181011336		1242098		
9949	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7029686	10-1761043	10-2015-0139866		
9950	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7009537	10-1837918	10-2017-0041292		
9951	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103114970	I547195	201448650		
9952	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/779557	9699081	US-2016-0044453-A1		
9953	METHOD FOR CLOSED-LOOP TUNER IN A RECEIVER ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	14/569116	9559434	US-2016-0172768-A1		
9954	METHOD FOR CLOSED-LOOP TUNER IN A RECEIVER ANTENNA	[redacted]	[redacted]	NP	PAT-Active	CN	2015107701914	ZL2015107 701914	105703785		
9955	METHOD FOR CLOSED-LOOP TUNER IN A RECEIVER ANTENNA	[redacted]	[redacted]	EPA	APP-Pending	EP	151939824		3032749		
9956	METHOD FOR CLOSED-LOOP TUNER IN A RECEIVER ANTENNA	[redacted]	[redacted]	NP	PAT-Active	TW	104136879	I578716	201630360		
9957	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND A METHOD FOR AMPLIFYING AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/686135	9356558	US-2015-0381114-A1		
9958	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND A METHOD FOR AMPLIFYING AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2015102887692	ZL2015102 887692	105391406		
9959	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND A METHOD FOR AMPLIFYING AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	DE	1020141091183	########	102014109118		
9960	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND A METHOD FOR AMPLIFYING AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104116660	I556571	201613257		
9961	CIRCUIT AN INTEGRATED CIRCUIT A TRANSMITTER A RECEIVER A TRANSCEIVER A METHOD FOR OBTAINING CALIBRATION DATA AND A METHOD FOR GENERATING A LOCAL OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/620488	9537585	US-2015-0280842-A1		
9962	AN APPARATUS A METHOD FOR OBTAINING CALIBRATION DATA ANDGENERATING A LOCAL OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2015101839244	ZL2015101 839244	104967449		
9963	A CIRCUIT AN INTEGRATED CIRCUIT A TRANSMITTER A RECEIVER A TRANSCEIVER A METHOD FOR OBTAINING CALIBRATION DATA AND A METHOD FOR GENERATING A LOCAL OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	1020141044789		102014104478		
9964	A CIRCUIT AN INTEGRATED CIRCUIT A TRANSMITTER A RECEIVER A TRANSCEIVER A METHOD FOR OBTAINING CALIBRATION DATA AND A METHOD FOR GENERATING A LOCAL OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104105363	I568191	201603497		
9965	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/718248	9431958	US-2015-0372644-A1		
9966	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	15/243343	9800203	US-2016-0359457-A1		
9967	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	2015102724977	ZL2015102 724977	105322955		
9968	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	1020141087747		102014108774		
9969	SYSTEMS METHODS AND DEVICES FOR IMPROVED INTER-FREQUENCY MEASUREMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/497514	9973958	US-2015-0215803-A1		
9970	SYSTEMS METHODS AND DEVICES FOR IMPROVED INTER-FREQUENCY MEASUREMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	157426487		3100494		
9971	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/497913	9674682	US-2015-0215757-A1		
9972	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2015800031981	ZL2015800 031981	105850187		
9973	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	157437674	3100522	3100522		
9974	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	157437674	########	3100522		
9975	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	157437674	3100522	3100522		
9976	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	157437674	3100522	3100522		
9977	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	157437674	3100522	3100522		
9978	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	161141108		1225901		
9979	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	TW	104102889	I565341	201543921		
9980	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL	[redacted]	[redacted]	NP	PAT-Active	US	14/498679	9774436	US-2015-0215100-A1		
9981	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800032857		105850179		
9982	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL	[redacted]	[redacted]	EPT	APP-Pending	EP	157435272		3100509		
9983	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9984	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9985	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9986	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9987	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL	[redacted]	[redacted]	FPR	APP-Pending	HK	161141055		1225896		
9988	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/488774	9867073	US-2015-0215837-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9989	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/835173	10470068	US-2018-0227785-A1		
9990	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	16/595637				
9991	EFFICIENT RECEIVER YIELDING FOR DISTRIBUTED D2D COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/496842	9661652	US-2015-0215088-A1		
9992	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	NP	PAT-Active	US	14/492342	9344939	US-2015-0215835-A1		
9993	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	PCT	PAT-Active	CN	2015800033563	ZL2015800033563	105874877		
9994	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	EPT	PAT-Active	EP	157440033	3100583	3100583		
9995	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	EPT	PAT-Active	DE	157440033	########	3100583		
9996	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	EPT	PAT-Active	NL	157440033	3100583	3100583		
9997	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	[redacted]	[redacted]	FPR	APP-Pending	HK	161141064		1225897		
9998	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/492333	9736834	US-2015-0215934-A1		
9999	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800032861		105850225		
10000	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157435223		3100584		
10001	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161141046		1225895		
10002	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800708988		105850090	Yes	
10003	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	EPT	APP-Pending	EP	148809858		3100429	Yes	
10004	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	FPR	APP-Pending	HK	161130520		1224844	Yes	
10005	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	PCT	APP-Pending	IN	5498/CHENP/2015		5498/CHENP/2015	Yes	
10006	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-535224	6370381	2017-510098	Yes	
10007	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7017001	10-1955278	10-2016-0090870	Yes	
10008	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	PCT	PAT-Active	US	14/443998	9986544	US-2017-0070978-A1	Yes	
10009	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE	[redacted]	[redacted]	CNT	PAT-Active	US	14/716846	10009881	US-2015-0256287-A1	Yes	
10010	PERIODIC CHANNEL STATUS INFORMATION (CSI) REPORTING FOR ENHANCED INTERFERENCE MANAGEMENT AND TRAFFIC ADAPTATION (EIMTA) SYSTEMS WITH CSI SUBFRAME SETS	[redacted]	[redacted]	NP	PAT-Active	US	14/495641	9571251	US-2015-0215928-A1	Yes	
10011	PERIODIC CHANNEL STATUS INFORMATION (CSI) REPORTING FOR ENHANCED INTERFERENCE MANAGEMENT AND TRAFFIC ADAPTATION (EIMTA) SYSTEMS WITH CSI SUBFRAME SETS	[redacted]	[redacted]	CNT	PAT-Active	US	14/700428	9749892	US-2015-0237521-A1	Yes	
10012	PERIODIC CHANNEL STATUS INFORMATION (CSI) REPORTING FOR ENHANCED INTERFERENCE MANAGEMENT AND TRAFFIC ADAPTATION (EIMTA) SYSTEMS WITH CSI SUBFRAME SETS	[redacted]	[redacted]	CNT	PAT-Active	US	15/675259	10362504	US-2018-0054752-A1	Yes	
10013	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800032876		105850180		
10014	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157431024		3100508		
10015	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161141073		1225898		
10016	RANDOM ACCESS PROCEDURE FOR DUAL CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	14/495292	9544920	US-2015-0215967-A1		
10017	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/492356	9426649	US-2015-0215777-A1		
10018	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800032842		105850169		
10019	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161141082		1225899		
10020	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7016805	10-1836021	10-2016-0090351		
10021	USER EQUIPMENT AND METHOD FOR TRANSMIT POWER CONTROL FOR D2D TRANMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/482060	9560574	US-2015-0223141-A1		
10022	USER EQUIPMENT UPLINK TOGGLING FOR DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/517302	9699802	US-2015-0215961-A1		
10023	USER EQUIPMENT AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION OVER AN LTE AIR INTERFACE	[redacted]	[redacted]	NP	PAT-Active	US	14/493030	9491725	US-2015-0215882-A1	Yes	
10024	DISCONTINUOUS RECEPTION ALIGNMENT IN DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/528755	9872334	US-2015-0215912-A1	Yes	
10025	DISCONTINUOUS RECEPTION ALIGNMENT IN DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/332754	10004107	US-2017-0041983-A1	Yes	
10026	DISCONTINUOUS RECEPTION ALIGNMENT IN DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	15/988280		US-2018-0352603-A1	Yes	
10027	RADIO RESOURCE CONTROL MESSAGING FOR DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/528860	9578544	US-2015-0215923-A1		
10028	RADIO RESOURCE CONTROL MESSAGING FOR DUAL CONNECTIVITY NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/437249	10231149	US-2017-0230864-A1		
10029	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/517698	9392531	US-2015-0215845-A1		
10030	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580003240X		105850184		
10031	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	157433897		3100520		
10032	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10033	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10034	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10035	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10036	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161141091		1225900		
10037	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7017051	10-1792652	10-2016-0090882		
10038	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	AU	2015210779	########	2015210779	Yes	
10039	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	AU	2017228715		2017228715	Yes	
10040	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10041	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CA	2931669	2931669	2931669	Yes	
10042	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800033718		105850197	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10043	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15743731		3100541	Yes	
10044	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16112808		1224865	Yes	
10045	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	5489/CHENP/2015		5489/CHENP/2015	Yes	
10046	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7016813		10-2016-0090354	Yes	
10047	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016125481	2632214	0002632214	Yes	
10048	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	RU	2016141437	2648298	0002648298	Yes	
10049	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/032078		US-2016-0378039-A1	Yes	
10050	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201480076135.9		106031290		
10051	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14887805.5		3123793		
10052	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023628	10-1867745	10-2016-0134669		
10053	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	TW	104105117	I577229	201542019		
10054	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/123797		US-2017-0019876-A1		
10055	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/228743	9462478	US-2015-0281971-A1		
10056	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580009808.9	ZL2015800 98089	106233776		
10057	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	EPT	PAT-Active	EP	15770255.8	3123771	3123771		
10058	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	EPT	PAT-Active	DE	15770255.8	3123771	3123771		
10059	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	EPT	PAT-Active	FR	15770255.8	3123771	3123771		
10060	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	EPT	PAT-Active	GB	15770255.8	3123771	3123771		
10061	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	EPT	PAT-Active	NL	15770255.8	3123771	3123771		
10062	DYNAMIC SHARED ACCESS SPECTRUM SELECTION	[redacted]	[redacted]	FPR	APP-Pending	HK	17103487.5		1229693		
10063	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201480020433.1		107079289	Yes	
10064	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	[redacted]	[redacted]	FPR	APP-Pending	HK	18100991		1241643	Yes	
10065	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	APP-Pending	EP	14795314.5		2995105	Yes	
10066	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10067	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10068	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10069	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10070	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	APP-Pending	US	16/197118		US-2019-0089525-A1	Yes	
10071	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480029885.0	ZL2014800 296850	105229962	Yes	
10072	USER EQUIPMENT AND METHOD FOR RESOURCEALLOCATION AND DEVICE-TO-DEVICE DISCOVERYHOPPING	[redacted]	[redacted]	PCD	APP-Pending	CN	201810990975.8		109135148	Yes	
10073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10074	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING	[redacted]	[redacted]	FPR	APP-Pending	HK	16107255.7		1219356	Yes	
10075	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7033741	10-1857643	10-2016-0004355	Yes	
10076	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7013018		10-2018-0053765	Yes	
10077	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING	[redacted]	[redacted]	PCT	PAT-Active	US	14/778526		US-2016-0100401-A1	Yes	
10078	USER EQUIPMENT DISCOVERY RESOURCE POOL SIGNALLING FOR USER EQUIPMENTS CONFIGURED FOR PRO-SE DIRECT DISCOVERY	[redacted]	[redacted]	CNT	APP-Pending	US	16/110725		US-2018-0368144-A1	Yes	
10079	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	NP	PAT-Active	US	14/237943	9408142	US-2015-0282067-A1		
10080	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	CN	201580059806X	ZL2015800 59806X	108053319		
10081	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	FPR	APP-Pending	HK	17103491		1228632		
10082	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	APP-Pending	IN	201647028514		201647028514		
10083	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552555	6311193	2017-514327		
10084	POWER SAVING AND DEVICE TRAFFIC OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023368	10-1854067	10-2016-0114125		
10085	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201480029640.8		105284166	Yes	
10086	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	14817272.9		3014934	Yes	
10087	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	16107955.0		1220069	Yes	
10088	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	TW	103127288	I568156	201515411	Yes	
10089	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	DIV	PAT-Active	TW	106105983	I654859	201724814	Yes	
10090	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	14/783573		US-2016-0050703-A1	Yes	
10091	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201480038450.8		105493536		
10092	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	14835079.8		3031224		
10093	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16110648.7		1222758		
10094	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/902292	9847823	US-2016-0373994-A1		
10095	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	NP	PAT-Active	US	14/506154	9614551	US-2015-0244407-A1		
10096	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	PCT	PAT-Active	CA	2935027	2935027	2935027		
10097	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	PCT	APP-Pending	IN	201647024858		201647024858		
10098	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-544676	6435575	2017-510118		
10099	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7020076	10-1812434	10-2016-0102516		
10100	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/A/2016/009627	364298	MX/A/2016/009627		
10101	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10102	USER EQUIPMENT COMPUTER READABLE MEDIUMAND METHOD TO DETERMINE THE MOBILITY OF USEREQUIPMENT IN A LONG- TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800049970		106416351	Yes	
10103	USER EQUIPMENT COMPUTER READABLE MEDIUMAND METHOD TO DETERMINE THE MOBILITY OF USEREQUIPMENT IN A LONG- TERM EVOLUTION NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	171051757		1231664	Yes	
10104	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	157527573	3111692	3111692	Yes	
10105	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	157527573	3111692	3111692	Yes	
10106	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	157527573	3111692	3111692	Yes	
10107	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	157527573	3111692	3111692	Yes	
10108	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	157527573	########	3111692	Yes	
10109	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	157527573	3111692	3111692	Yes	
10110	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	157527573	3111692	3111692	Yes	
10111	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	157527573	3111692	3111692	Yes	
10112	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	157527573	3111692	3111692	Yes	
10113	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	157527573	3111692	3111692	Yes	
10114	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	157527573	3111692	3111692	Yes	
10115	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	157527573	3111692	3111692	Yes	
10116	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	157527573	3111692	3111692	Yes	
10117	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	157527573	3111692	3111692	Yes	
10118	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647024877		201647024877	Yes	
10119	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG- TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-553441	6363218	2017-512013	Yes	
10120	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7018031	10-1821513	10-2016-0095090	Yes	
10121	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/111880	10306584	US-2016-0338002-A1	Yes	
10122	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/582384	9635655	US-2015-0245349-A1		
10123	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2015800054911	ZL2015800 054911	106105304		
10124	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	171027400		1229133		
10125	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647024903		201647024903		
10126	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-567336	6374031	2017-505090		
10127	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7019400	10-1832223	10-2016-0101100		
10128	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	NP	PAT-Active	US	14/582346	9577778	US-2015-0245366-A1		
10129	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	PCT	PAT-Active	CN	2015800049824	ZL2015800 049824	105917601		
10130	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	EP	157524158	3111574	3111574		
10131	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	AT	157524158	3111574	3111574		
10132	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	BE	157524158	3111574	3111574		
10133	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	CH	157524158	3111574	3111574		
10134	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	DE	157524158	########	3111574		
10135	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	EE	157524158	3111574	3111574		
10136	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	ES	157524158	3111574	3111574		
10137	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	FR	157524158	3111574	3111574		
10138	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	GB	157524158	3111574	3111574		
10139	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	GR	157524158	3111574	3111574		
10140	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	HU	157524158	3111574	3111574		
10141	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	IE	157524158	3111574	3111574		
10142	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	NL	157524158	3111574	3111574		
10143	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	EPT	PAT-Active	SK	157524158	3111574	3111574		
10144	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	FPR	PAT-Active	HK	171005040	1227187	1227187		

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
30145	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647028412		201647028412		
30146	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-545861	6337346	2017-507555		
30147	INTERFERENCE REDUCTION USING HYBRID SIGNALING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7018636	10-1896166	10-2016-0098352		
30148	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	NP	PAT-Active	US	14/582375	9839089	US-2015-0245376-A1		
30149	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	PCT	PAT-Active	CN	201580095587	ZL2015800 955878	106416094		
30150	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	FPR	APP-Pending	HK	17107318		1233777		
30151	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	EP	15752442	3111569	3111569		
30152	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	AT	15752442	3111569	3111569		
30153	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	BE	15752442	3111569	3111569		
30154	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	CH	15752442	3111569	3111569		
30155	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	DE	15752442	########	3111569		
30156	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	EE	15752442	3111569	3111569		
30157	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	ES	15752442	3111569	3111569		
30158	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	FR	15752442	3111569	3111569		
30159	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	GB	15752442	3111569	3111569		
30160	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	GR	15752442	3111569	3111569		
30161	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	HU	15752442	3111569	3111569		
30162	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	IE	15752442	3111569	3111569		
30163	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	NL	15752442	3111569	3111569		
30164	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	EPT	PAT-Active	SK	15752442	3111569	3111569		
30165	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	PCT	APP-Pending	IN	201647024994		201647024994		
30166	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-544838	6353059	2017-502612		
30167	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION OF DEVICE-TO-DEVICE CAPABLE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/581205	9992744	US-2015-0245295-A1		
30168	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580004963		105917731		
30169	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17105059		1227211		
30170	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025002		201647025002		
30171	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-548046	6323923	2017-506487		
30172	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7019873	10-1951210	10-2016-0110396		
30173	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/111762	9907095	US-2016-0338111-A1		
30174	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580004996		106416350		
30175	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	FPR	APP-Pending	HK	17106441		1233109		
30176	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	EPT	APP-Pending	EP	15751445		3111691		
30177	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025169		201647025169		
30178	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-547069	6362501	2017-503437		
30179	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7019557	10-1828424	10-2016-0101127		
30180	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	PCT	PAT-Active	CN	200480004733	ZL2004800 047337	1751305		
30181	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	EPT	PAT-Active	DE	47126073	########	1595216		
30182	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	EPT	PAT-Active	EP	47126073	1595216	1595216		
30183	ARRAY SYNCHRONISATION WITH COUNTERS	[redacted]	[redacted]	PCT	PAT-Active	US	10/539337	7603541	US-2006-0168423-A1		
30184	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/570295	9819356	US-2016-0173119-A1		
30185	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201510765248	ZL2015107 652481	105703766		
30186	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	5815/CHE/2015		5815/CHE/2015		
30187	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/580296	9407490	US-2016-0182271-A1		
30188	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201510794966	ZL2015107 945661	105721008		
30189	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	15195498	3041146	3041146		
30190	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	15195498	3041146	3041146		
30191	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	15195498	3041146	3041146		
30192	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	15195498	3041146	3041146		
30193	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	NL	15195498	3041146	3041146		
30194	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	6057/CHE/2015		6057/CHE/2015		
30195	CELL SEARCH METHOD AND COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	14/287086	9456373	US-2015-0341813-A1		
30196	CELL SEARCH METHOD AND COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015106838		102015105685		
30197	METHOD FOR DETERMINING A PERFORMANCE OF A MIMO COMMUNICATION AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/284468	9577768	US-2015-0341127-A1		
30198	METHOD FOR DETERMINING A PERFORMANCE OF A MIMO COMMUNICATION AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	102015105674		102015105674		
30199	PROCESSOR ARRAY INCLUDING DELAY ELEMENTS ASSOCIATED WITH PRIMARY BUS NODES	[redacted]	[redacted]	PCT	PAT-Active	US	10/543370	7574587	US-2006-0155956-A1		
30200	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	PAT-Active	CN	38198207	ZL0381982 07	1675653		
30201	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	PAT-Active	DE	37651452	########	1535192		
30202	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	PAT-Active	EP	37651452	1535192	1535192		
30203	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	PAT-Active	US	10/521885	7549081	US-2005-0257105-A1		
30204	Method and Device in a Communication Network	[redacted]	[redacted]	NP	PAT-Active	US	12/794128	8483312	US-2010-0311448-A1	Yes	
30205	METHOD AND DEVICE IN A COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	13/907753	8892154	US-2013-0260776-A1	Yes	
30206	METHOD AND DEVICE IN A COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/539353	9807771	US-2015-0173083-A1	Yes	
30207	A METHOD AND DEVICE IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	PAT-Active	CN	201010203386	ZL2010102 033868	101925156	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10208	A METHOD AND DEVICE IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	CN	201610455467.4	ZL2016104554674	105980007	Yes	
10209	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	EP	1016493.8	2259639	2259639	Yes	
10210	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	AT	1016493.8	2259639	2259639	Yes	
10211	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	BE	1016493.8	2259639	2259639	Yes	
10212	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	CH	1016493.8	2259639	2259639	Yes	
10213	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPD	APP-Pending	EP	1816241.8		3398807	Yes	
10214	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	DE	1016493.8	2259639	2259639	Yes	
10215	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	EE	1016493.8	2259639	2259639	Yes	
10216	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	ES	1016493.8	2259639	2259639	Yes	
10217	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	FR	1016493.8	2259639	2259639	Yes	
10218	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	GB	1016493.8	2259639	2259639	Yes	
10219	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	GR	1016493.8	2259639	2259639	Yes	
10220	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	HU	1016493.8	2259639	2259639	Yes	
10221	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	IE	1016493.8	2259639	2259639	Yes	
10222	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	NL	1016493.8	2259639	2259639	Yes	
10223	A METHOD AND APPARATUS FOR DOWNLINK POWER CONTROL			EPA	PAT-Active	SK	1016493.8	2259639	2259639	Yes	
10224	A METHOD AND DEVICE IN A COMMUNICATIONS NETWORK			NP	PAT-Active	GB	9096498	2470891	2470891	Yes	
10225	A METHOD AND DEVICE IN A COMMUNICATIONS NETWORK			NP	APP-Pending	IN	1307/DEL/2010		1307/DEL/2010	Yes	
10226	POWER CONTROL			NP	PAT-Active	US	12/264531	8559998	US-2009-0149211-A1		
10227	ACCESSING A BASE STATION			NP	PAT-Active	US	13/872267	8712469	US-2012-0295603-A1		
10228	FILTER			NP	PAT-Active	GB	11057484	2489919	2489919		
10229	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			NP	PAT-Active	US	14/583172	9566707	US-2015-0268726-A1	Yes	
10230	[redacted]										
10231	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			CNT	PAT-Active	US	15/394954	10356772	US-2017-0215173-A1	Yes	
10232	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			CNT	APP-Pending	US	16/409350		20200323114	Yes	
10233	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			PCT	PAT-Active	CN	201580007613.0	ZL2015800076130	105981431	Yes	
10234	BEARER MOBILITY AND SPLITTING IN 3RD GENERATION PARTNERSHIP PROJECT NETWORK			PCD	APP-Pending	CN	201710595944.1		107592653	Yes	
10235	BEARER MOBILITY AND SPLITTING IN 3RD GENERATION PARTNERSHIP PROJECT NETWORK			PPD	APP-Pending	HK	18108685.3		1249329	Yes	
10236	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			EPT	APP-Pending	EP	15762046.9		3117658	Yes	
10237	[redacted]										
10238											
10239											
10240											
10241	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			SPR	APP-Pending	HK	17100897.5		3727598	Yes	
10242	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			PCT	APP-Pending	IN	201647025508		201647025508	Yes	
10243	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			PCT	PAT-Active	JP	2016-549455	6376478	2017-518261	Yes	
10244	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK-BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK			PCT	PAT-Active	KR	10-2016-7023594	10-1834397	10-2016-0108472	Yes	
10245	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			NP	PAT-Active	US	14/565868	9674643	US-2015-0264514-A1		
10246	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			CNT	PAT-Active	US	15/499567	9998905	US-2017-0230814-A1		
10247	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			CNT	PAT-Active	US	15/981139	10425803	US-2018-0359625-A1		
10248	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			CNT	APP-Pending	US	16/548528		20200145810		
10249	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			PCT	PAT-Active	CN	201580080867.3	ZL2015800808673	105993169		
10250	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			PCD	APP-Pending	CN	201811467917		109348468		
10251	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES			EPT	APP-Pending	EP	15765969		3120530		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10252	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	[redacted]	[redacted]	NP	PAT-Active	TW	104103568	I602466	201583965		
10253	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	NP	PAT-Active	US	14/580735	9794033	US-2015-0264699-A1		
10254	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	APP-Pending	BR	112016018353-3		112016018353-3		
10255	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	CNT	APP-Pending	US	15/708560		US-2018-0063776-A1		
10256	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	PAT-Active	CN	201580007603.7	ZL2015800076037	105981466		
10257	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCD	APP-Pending	CN	201710986743.6		107682936		
10258	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PPD	APP-Pending	HK	18100846.02		1250112		
10259	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	EPT	APP-Pending	EP	15761432.2		3117678		
10260	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	ETD	APP-Pending	EP	19153035.9		3524682		
10261	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PPR	APP-Pending	HK	17101487.9		1228161		
10262	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025815		201647025815		
10263	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-551142	6357724	2017-507586		
10264	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022013	10-1863033	10-2016-0108479		
10265	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7034472	10-1844837	10-2017-0133534		
10266	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	14/581689	9936427	US-2015-0264621-A1		
10267	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580008407.9		105981442		
10268	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PPR	APP-Pending	HK	17101821.4		1228627		
10269	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025809		201647025809		
10270	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552586	6293935	2017-513277		
10271	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7021962	10-1863461	10-2016-0108467		
10272	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	NP	PAT-Active	US	14/582540	9706336	US-2015-0264511-A1		
10273	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	PAT-Active	CN	201580007592.3	ZL2015800075923	105981428		
10274	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PPR	APP-Pending	HK	17101486.0		1228160		
10275	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026017		201647026017		
10276	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-553859	6386667	2017-511043		
10277	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7021858	10-1865680	10-2016-0107285		
10278	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	AU	2015229021	########	2015229021	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10280	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CA	2938618		2938618	Yes	
10281	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	APP-Pending	EP	15762783.8		3117670	Yes	
10282	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201605008	ID0000058533		Yes	
10283	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026221		201647026221	Yes	
10284	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-549756	6341490	2017-508370	Yes	
10285	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCD	PAT-Active	JP	2018-090083	6561169	2018-137821	Yes	
10286	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7021953		10-2016-0108468	Yes	
10287	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/010546	364772	MX/a/2016/010546	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10289	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	RU	2016133384	2638178		Yes	
10290	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCD	PAT-Active	RU	2017137232	2672673		Yes	
10291	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	US	15/254932	10375680	US-2017-0273094-A1	Yes	
10292	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	APP-Pending	US	16/412259		US 2019-0364559 A1	Yes	
10293	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112016018355-0		112016018355-0	Yes	
10294	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CA	2939248		2939248	Yes	
10295	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	15761961.0	3117543	3117543	Yes	
10296	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	AT	15761961.0	3117543	3117543	Yes	
10297	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	BE	15761961.0	3117543	3117543	Yes	
10298	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	CH	15761961.0	3117543	3117543	Yes	
10299	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	15761961.0	########	3117543	Yes	
10300	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EE	15761961.0	3117543	3117543	Yes	
10301	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	ES	15761961.0	3117543	3117543	Yes	
10302	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	15761961.0	3117543	3117543	Yes	
10303	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	15761961.0	3117543	3117543	Yes	
10304	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GR	15761961.0	3117543	3117543	Yes	
10305	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	HU	15761961.0	3117543	3117543	Yes	
10306	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	IE	15761961.0	3117543	3117543	Yes	
10307	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	15761961.0	3117543	3117543	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10308	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	SK	15761963	3117543	3117543	Yes	
10309	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605280		2017/07533	Yes	
10310	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026245		201647026245	Yes	
10311	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569558	6376033	2017-513415	Yes	
10312	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	JP	2018-134908	6922837	2018-186552	Yes	
10313	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7021763	10-1862373	10-2016-0106720	Yes	
10314	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/010305	361640	MX/a/2016/010305	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10316	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016133041	2646285	2016133041	Yes	
10317	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	RU	2017111067	2649910		Yes	
10318	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	TW	104104399	I608751	201543946	Yes	
10319	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	DIV	PAT-Active	TW	106126938	I657709	201742506	Yes	
10320	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	PCT	APP-Pending	CN	201580007472		106256147		
10321	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	EPR	APP-Pending	HK	17104795		1229989		
10322	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026316		201647026316		
10323	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-551213	6306202	2017-507597		
10324	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022061	10-1842981	10-2016-0108485		
10325	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/582611	9768644	US-2015-0264677-A1	Yes	
10326	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	APP-Pending	BR	112016018318-5		112016018318-5	Yes	
10327	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CA	2939224	2939224	2939224	Yes	
10328	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	EP	15761623	3117673	3117673	Yes	
10329	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	AT	15761623	3117673	3117673	Yes	
10330	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	BE	15761623	3117673	3117673	Yes	
10331	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	CH	15761623	3117673	3117673	Yes	
10332	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	ETD	APP-Pending	EP	17164984		3223849	Yes	
10333	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	DE	15761623	3117673	3117673	Yes	
10334	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	EE	15761623	3117673	3117673	Yes	
10335	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	ES	15761623	3117673	3117673	Yes	
10336	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	FR	15761623	3117673	3117673	Yes	
10337	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	GB	15761623	3117673	3117673	Yes	
10338	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	GR	15761623	3117673	3117673	Yes	
10339	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	IE	15761623	3117673	3117673	Yes	
10340	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	NL	15761623	3117673	3117673	Yes	
10341	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	PAT-Active	SK	15761623	3117673	3117673	Yes	
10342	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201805279	ID0000050 698	2017/07312	Yes	
10343	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026353		201647026353	Yes	
10344	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCD	APP-Pending	IN	201748006887		201748006887	Yes	
10345	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7020658	10-1900165	10-2016-0108383	Yes	
10346	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/010306	364487	MX/a/2016/010306	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10348	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016133197	2645010	2016133197	Yes	
10349	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCD	PAT-Active	RU	2017111077	2657863		Yes	
10350	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	NP	PAT-Active	TW	104104404	I589293	201542003	Yes	
10351	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	DIV	PAT-Active	TW	106120770	I618436	201737765	Yes	
10352	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/577419	9838951	US-2015-0264636-A1	Yes	
10353	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	AU	2015229967	88888888	2015229967	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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10355	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	CNT	PAT-Active	US	15/789504	10390254	US-2018-0049116-A1	Yes	
10356	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	CA	2937805	2937805	2937805	Yes	
10357	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605316		2017/06018	Yes	
10358	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026654		201647026654	Yes	
10359	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569559	6363330	2017-512043	Yes	
10360	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7021963		10-2016-0110460	Yes	
10361	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/A/2016/011303	364473	MX/A/2016/011303	Yes	
10362	APPARATUS SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	MY	PI2016702927		201647026654	Yes	
10363	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	RU	2016133305	2638937		Yes	
10364	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCD	PAT-Active	RU	2017140834	2677631		Yes	
10365	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104104405	I577209	201545582	Yes	
10366	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	DIV	PAT-Active	TW	105144231	I618431	201728209	Yes	
10367	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	DIV	PAT-Active	TW	106146561	I672969	201813431	Yes	
10368	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/583188	9864464	US-2015-0268512-A1		
10369	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	201580008328.0	ZL201580008328.0	105981471		
10370	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	EPR	APP-Pending	HK	17104149		1226895		
10371	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-550241	6434040	2017-510166		
10372	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7021873	10-1955428	10-2016-0106731		
10373	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/566736	9667807	US-2016-0174138-A1		
10374	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201510742152.5	ZL201510742152.1	105704787		
10375	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	5623/CHE/2015		5623/CHE/2015		
10376	METHODS AND DEVICES FOR CHANNEL ESTIMATION AND OFDM RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	14/692367	9838912	US-2016-0315791-A1		
10377	METHODS AND DEVICES FOR CHANNEL ESTIMATION AND OFDM RECEIVER	[redacted]	[redacted]	NP	APP-Pending	DE	102015106347.5		102015106347		
10378	FINE TIMING MEASUREMENT BURST MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/448805	9320009	US-2015-0271776-A1		
10379	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/583281	9888430	US-2015-0264638-A1	Yes	
10380	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	AU	2015229638	########	2015229638	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10382	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	15/824121		US-2018-0084488-A1	Yes	
10383	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CA	2938769	2938769	2938769	Yes	
10384	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15760974.6		3117542	Yes	
10385	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605278		2017/07245	Yes	
10386	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026753		201647026753	Yes	
10387	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552913	6479835	2017-512010	Yes	
10388	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7022071		10-2016-0108485	Yes	
10389	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2019-7030664		10-2019-0120455		
10390	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	MX	MX/A/2016/010562		MX/A/2016/010562	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10392	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	RU	2016133391	2635561		Yes	
10393	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	RU	2017138393	2669778		Yes	
10394	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	104107923	I552636	201601581	Yes	
10395	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	TW	105124143	I646859	201720218	Yes	
10396	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	14/581619	10411828	US-2015-0271006-A1	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10398	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580008614.7		106031057	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10398	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EP	157652991	3120477	3120477	Yes	
10400	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	AT	157652991	3120477	3120477	Yes	
10401	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	BE	157652991	3120477	3120477	Yes	
10402	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	CH	157652991	3120477	3120477	Yes	
10403	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	DE	157652991	########	3120477	Yes	
10404	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	EE	157652991	3120477	3120477	Yes	
10405	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	ES	157652991	3120477	3120477	Yes	
10406	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	FR	157652991	3120477	3120477	Yes	
10407	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GB	157652991	3120477	3120477	Yes	
10408	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	GR	157652991	3120477	3120477	Yes	
10409	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	HU	157652991	3120477	3120477	Yes	
10410	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	IE	157652991	3120477	3120477	Yes	
10411	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	NL	157652991	3120477	3120477	Yes	
10412	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	EPT	PAT-Active	SK	157652991	3120477	3120477	Yes	
10413	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	FPR	APP-Pending	HK	173016127		1228130	Yes	
10414	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	IN	201647026848		201647026848	Yes	
10415	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552517	6504674	2017-518325	Yes	
10416	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022466	10-1958750	10-2016-0108544	Yes	
10417	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	NP	PAT-Active	TW	104106562	I566556	201545513	Yes	
10418	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	DIV	PAT-Active	TW	105136882	I648548	201728143	Yes	
10419	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	NP	PAT-Active	US	14/563523	9439084	US-2015-0271686-A1		
10420	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	CNT	PAT-Active	US	15/230228	10075953	US-2017-0034818-A1		
10421	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	PCT	PAT-Active	CN	201580010276[redacted]	ZL2015800102762	106063370		
10422	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	EPT	APP-Pending	EP	157691957		3123814		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10427	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	FPR	APP-Pending	HK	173027354		1229131		
10428	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027213		201647027213		
10429	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-558713	6387335	2017-511062		
10430	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7032957	10-1981377	10-2016-0133645		
10431	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CA	2937909		2937909	Yes	
10432	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605549		2017/07126	Yes	
10433	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027346		201647027346	Yes	
10434	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-552997	6306788	2017-535088	Yes	
10435	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022896	10-1834685	10-2016-0111033	Yes	
10436	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	MX	MX/A/2016/010889		MX/A/2016/010889	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10438	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	14/576657	9578484	US-2015-0271657-A1	Yes	
10439	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580009112[redacted]		106063325	Yes	
10440	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	FPR	APP-Pending	HK	173014851		1228159	Yes	
10441	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027347		201647027347	Yes	
10442	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-553584	6388066	2017-506475	Yes	
10443	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7023081	10-1834138	10-2016-0111507	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10448	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Pending	BR	112016018833-0		112016018833-0	Yes	
10445	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Pending	CA	2938302		2938302	Yes	
10446	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	EPT	APP-Pending	EP	15770216B		3123785	Yes	
10447	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Pending	ID	PID201805484		2017/08076	Yes	
10448	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027453		201647027453	Yes	
10449	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-550255	6383428	2017-507581	Yes	
10450	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7014336		10-2018-0056813	Yes	
10451	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/010795	364393	MX/a/2016/010795	Yes	
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10453	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	PAT-Active	RU	2016134573	2645722		Yes	
10454	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Pending	US	15/129372		US-2017-0181070-A1	Yes	
10455	REDUCTION OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480023293	ZL201480023293	105594246	Yes	
10456	REDUCTION OF USER PLANE CONGESTION	[redacted]	[redacted]	EPR	APP-Pending	HK	16112381		1224878	Yes	
10457	REDUCTION OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/783043	9655684	US-2016-0105365-A1	Yes	
10458	SIGNALING MESSAGE SYNCHRONIZATION	[redacted]	[redacted]	NP	PAT-Active	US	14/316412	9924521	US-2015-0029955-A1	Yes	
10459	SIGNALING MESSAGE SYNCHRONIZATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480035616	ZL201480035616	105380339	Yes	
10460	SIGNALING MESSAGE SYNCHRONIZATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14830264		3025555	Yes	
10461	SIGNALING MESSAGE SYNCHRONIZATION	[redacted]	[redacted]	EPR	APP-Pending	HK	16108623		1220847	Yes	
10462	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/313818	9313812	US-2015-0029918-A1		
10463	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480035562	ZL201480035562	105325629		
10464	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	[redacted]	[redacted]	EPR	APP-Pending	HK	16108621		1220845		
10465	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	NP	PAT-Active	US	14/314256	9650754	US-2015-0043447-A1		
10466	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039162	ZL201480039162	105379410		
10467	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	EPR	APP-Pending	HK	16109976		1222283		
10468	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039308	ZL201480039308	105393470		
10469	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	14834770	3031146	3031146		
10470	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	AT	14834770	3031146	3031146		
10471	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	BE	14834770	3031146	3031146		
10472	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	CH	14834770	3031146	3031146		
10473	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	14834770	69000000	3031146		
10474	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EE	14834770	3031146	3031146		
10475	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	ES	14834770	3031146	3031146		
10476	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	FR	14834770	3031146	3031146		
10477	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GB	14834770	3031146	3031146		
10478	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	GR	14834770	3031146	3031146		
10479	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	HU	14834770	3031146	3031146		
10480	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	IS	14834770	3031146	3031146		
10481	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	NL	14834770	3031146	3031146		
10482	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	SK	14834770	3031146	3031146		
10483	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	EPR	APP-Pending	HK	16110045		1222089		
10484	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	14/911262	9787306	US-2016-0191135-A1		
10485	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	[redacted]	[redacted]	NP	PAT-Active	US	14/338638	9554403	US-2015-0029879-A1		
10486	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480035513	ZL201480035513	105340332		
10487	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	APP-Pending	EP	14828994		3025553		
10488	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	[redacted]	[redacted]	EPR	APP-Pending	HK	16108634		1220848		
10489	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/300837	9485995	US-2015-0043445-A1		
10490	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	15/357032	9900786	US-2017-0105127-A1		
10491	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	15/842528	10419947	US-2018-0184306-A1		
10492	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCD	APP-Pending	CN	201710087453		106912109		
10493	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	EP	14835105	3031150	3031150		
10494	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	DE	14835105	3031150	3031150		
10495	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	FR	14835105	3031150	3031150		
10496	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	GB	14835105	3031150	3031150		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8278	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2014-7036962	10-1659204	10-2015-0027166	Yes	
8279	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7025185	10-1634110	10-2016-0112008	Yes	
8280	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/000149	367988	MX/a/2015/000149	Yes	
8281	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8282	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8283	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/127118	9402253	US-2014-0355531-A1	Yes	
8284	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCD	PAT-Active	US	15/183542	10068102	US-2016-0295562-A1	Yes	
8285	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	NP	PAT-Active	US	13/931103	9167574	US-2014-0092880-A1	Yes	
8286	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	AU	2013323978	########	2013323978	Yes	
8287	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	PAT-Active	AU	2016203284	########	2016203284	Yes	
8288	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	PAT-Active	AU	2017203569	########	2017203569	Yes	
8289	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	APP-Pending	BR	112015004107-8		112015004107-8	Yes	
8290	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	APP-Pending	BR	122016013802-0		122016013802-0	Yes	
8291	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	CNT	PAT-Active	US	14/882289	9549404	US-2016-0037498-A1	Yes	
8292	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	CNT	PAT-Active	US	15/374623	9872289	US-2017-0127388-A1	Yes	
8293	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	CNT	PAT-Active	US	15/861585	10129866	US-2018-0132213-A1	Yes	
8294	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	CA	2879201	2879201	2879201	Yes	
8295	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380038454.25	ZL201380038454.25	104823394	Yes	
8296	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	APP-Pending	CN	201611006059.8		106535338	Yes	
8297	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	EP	13842972.5	2901590	2901590	Yes	
8298	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	AT	13842972.5	2901590	2901590	Yes	
8299	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	BE	13842972.5	2901590	2901590	Yes	
8300	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	CH	13842972.5	2901590	2901590	Yes	
8301	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	EP	17165456.9	3226434	3226434	Yes	
8302	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	AT	17165456.9	3226434	3226434	Yes	
8303	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	BE	17165456.9	3226434	3226434	Yes	
8304	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	CH	17165456.9	3226434	3226434	Yes	
8305	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	DE	17165456.9	3226434	3226434	Yes	
8306	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	DE	13842972.5	########	2901590	Yes	
8307	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	EE	17165456.9	3226434	3226434	Yes	
8308	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	ES	17165456.9	3226434	3226434	Yes	
8309	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	FR	17165456.9	3226434	3226434	Yes	
8310	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	GB	17165456.9	3226434	3226434	Yes	
8311	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	GR	17165456.9	3226434	3226434	Yes	
8312	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	HU	17165456.9	3226434	3226434	Yes	
8313	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	IE	17165456.9	3226434	3226434	Yes	
8314	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	NL	17165456.9	3226434	3226434	Yes	
8315	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	ETD	PAT-Active	SK	17165456.9	3226434	3226434	Yes	
8316	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	EE	13842972.5	2901590	2901590	Yes	
8317	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	ES	13842972.5	2901590	2901590	Yes	
8318	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	FR	13842972.5	2901590	2901590	Yes	
8319	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	GB	13842972.5	2901590	2901590	Yes	
8320	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	GR	13842972.5	2901590	2901590	Yes	
8321	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	HU	13842972.5	2901590	2901590	Yes	
8322	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	IE	13842972.5	2901590	2901590	Yes	

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8323	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	NL	138429725	2901590	2901590	Yes	
8324	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPT	PAT-Active	SK	138429725	2901590	2901590	Yes	
8325	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPR	PAT-Active	HK	15107988.2	1207690	1207690	Yes	
8326	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	EPD	APP-Pending	HK	17106059.8		1232711	Yes	
8327	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201503087	IDP000051508	2017/00465	Yes	
8328	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	APP-Pending	IN	567/CHENP/2015		567/CHENP/2015	Yes	
8329	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-533128	5956689	2016-500209	Yes	
8330	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-120290	6312746	2016-197876	Yes	
8331	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005343	10-1753828	10-2015-0040993	Yes	
8332	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/003478	343208	MX/a/2015/003478	Yes	
8333	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
8334	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	PSP	APP-Closed	US	61/821635				
8335	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	AT	138519962	2915263	2915263	Yes	
8336	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	DE	138519962	2915263	2915263	Yes	
8337	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	EE	138519962	2915263	2915263	Yes	
8338	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	EP	138519962	2915263	2915263	Yes	
8339	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	EP	161634464	3059995	3059995	Yes	
8340	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	AT	161634464	3059995	3059995	Yes	
8341	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	BE	161634464	3059995	3059995	Yes	
8342	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	CH	161634464	3059995	3059995	Yes	
8343	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	DE	161634464	3059995	3059995	Yes	
8344	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	EE	161634464	3059995	3059995	Yes	
8345	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	ES	161634464	3059995	3059995	Yes	
8346	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	FR	161634464	3059995	3059995	Yes	
8347	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	GB	161634464	3059995	3059995	Yes	
8348	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	GR	161634464	3059995	3059995	Yes	
8349	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	HU	161634464	3059995	3059995	Yes	
8350	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	IE	161634464	3059995	3059995	Yes	
8351	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	NL	161634464	3059995	3059995	Yes	
8352	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	ETD	PAT-Active	SK	161634464	3059995	3059995	Yes	
8353	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	ES	138519962	2915263	2915263	Yes	
8354	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	FR	138519962	2915263	2915263	Yes	
8355	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	GB	138519962	2915263	2915263	Yes	
8356	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	GR	138519962	2915263	2915263	Yes	
8357	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	HU	138519962	2915263	2915263	Yes	
8358	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	NL	138519962	2915263	2915263	Yes	
8359	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	EPT	PAT-Active	SK	138519962	2915263	2915263	Yes	
8360	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	PCT	PAT-Active	US	14/126654	9277471	US-2014-0269383-A1	Yes	
8361	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	CNT	PAT-Active	US	15/013658	9674753	US-2016-0157243-A1	Yes	
8362	LONG-TERM EVOLUTION DEVICE-TO-DEVICE DISCOVERY USING CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	201380051617X	ZL201380051617X	105557032		
8363	LONG-TERM EVOLUTION DEVICE-TO-DEVICE DISCOVERY USING CONTROL CHANNEL	[redacted]	[redacted]	EPR	APP-Pending	HK	16111327		1223220		
8364	LONG-TERM EVOLUTION DEVICE-TO-DEVICE DISCOVERY USING CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	US	14/126898	9924432	US-2015-0043438-A1		
8365	SIGNALING QOS REQUIREMENTS AND UE POWER PREFERENCE IN LTE-A NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380051496.8	ZL201380051496.8	104885514		
8366	SIGNALING QOS REQUIREMENTS AND UE POWER PREFERENCE IN LTE-A NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/127092	9420513	US-2015-0230179-A1		
8367	EXTENDED DISCONTINUOUS RECEPTION (DRX) CYCLE LENGNTH IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	13850958		2915378		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8368	EXTENDED DISCONTINUOUS RECEPTION (DRX) CYCLE LENGTH IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/127621	9998971	US-2014-0286215-A1		
8369	METHODS FOR IMPROVING ON-TIME THROUGHPUT IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800515285	ZL2013800515285	104937977		
8370	COVERAGE BOOSTING TRANSMISSION METHOD FOR LTE TECHNOLOGY	[redacted]	[redacted]	PCT	PAT-Active	US	14/124964	9585075	US-2014-0286302-A1		
8371	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800514954	ZL2013800514954	104782157	Yes	
8372	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	138502778	2915357	2915357	Yes	
8373	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	138502778	2915357	2915357	Yes	
8374	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	138502778	2915357	2915357	Yes	
8375	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	138502778	2915357	2915357	Yes	
8376	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	138502778	2915357	2915357	Yes	
8377	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	138502778	2915357	2915357	Yes	
8378	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	138502778	2915357	2915357	Yes	
8379	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	138502778	2915357	2915357	Yes	
8380	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	138502778	2915357	2915357	Yes	
8381	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	138502778	2915357	2915357	Yes	
8382	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	138502778	2915357	2915357	Yes	
8383	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	138502778	2915357	2915357	Yes	
8384	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	138502778	2915357	2915357	Yes	
8385	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	138502778	2915357	2915357	Yes	
8386	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-534837	5960365	2015-530851	Yes	
8387	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7008322	10-1733615	10-2015-0082190	Yes	
8388	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	14/124457	9363727	US-2014-0295856-A1	Yes	
8389	FREQUENCY OFFSET MEASUREMENT ENHANCEMENTS FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800515942	ZL2013800515942	104904256		
8390	FREQUENCY OFFSET MEASUREMENT ENHANCEMENTS FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	PAT-Active	US	14/125767	9332469	US-2015-0029874-A1		
8391	INTER-RAT MOBILITY OF IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	APP-Pending	EP	138503230		2915368		
8392	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
8393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
8394	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
8395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
8396	INTER-RAT MOBILITY OF IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	PAT-Active	US	14/119228	9253698	US-2015-0249947-A1		
8397	INTER-RAT MOBILITY OF IN-DEVICE COEXISTENCE	[redacted]	[redacted]	CNT	PAT-Active	US	14/990239	9572077	US-2016-0119842-A1		
8398	FAST MODULATION AND CODING SCHEME ADAPTATION PROTOCOL FOR LONG TERM EVOLUTION WITH MULTIPLE-USER MULTIPLE-INPUT MULTIPLE OUTPUT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800514780	ZL2013800514780	104782166		
8399	FAST MODULATION AND CODING SCHEME ADAPTATION PROTOCOL FOR LONG TERM EVOLUTION WITH MULTIPLE-USER MULTIPLE INPUT MULTIPLE OUTPUT	[redacted]	[redacted]	PCT	PAT-Active	US	14/125472	9609564	US-2015-0171939-A1		
8400	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800715328	ZL2013800715328	105009664		
8401	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	2017114749902		108322914		
8402	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	181156395		1256564		
8403	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161048308		1216964		
8404	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/766873	9820260	US-2015-0382201-A1		
8405	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/810832	10420073	US-2018-0098305-A1		
8406	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	16/540656		20200045673		
8407	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138705876	2944135	2944135		
8408	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	138705876	2944135	2944135		
8409	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	138705876	2944135	2944135		
8410	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	138705876	2944135	2944135		
8411	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138705876	2944135	2944135		
8412	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	138705876	2944135	2944135		
8413	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	138705876	2944135	2944135		
8414	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	138705876	2944135	2944135		
8415	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	138705876	2944135	2944135		
8416	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	138705876	2944135	2944135		
8417	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	138705876	2944135	2944135		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8418	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	138705876	2944135	2944135		
8419	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138705876	2944135	2944135		
8420	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	138705876	2944135	2944135		
8421	METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/125716	9204401	US-2015-0036597-A1		
8422	CHANNEL QUALITY INDICATION FOR FALLBACK TRANSMISSION MODE OVER NEW CARRIER TYPE	[redacted]	[redacted]	PCT	PAT-Active	CN	201380064547	ZL2013800645471	104969503		
8423	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	PCT	PAT-Active	CN	201380066495	ZL2013800656495	105009488	Yes	
8424	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	EPR	PAT-Active	HK	16104867	1216954	1216954	Yes	
8425	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	EPT	APP-Pending	EP	13871123		2944038	Yes	
8426	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7015791	10-1680506	10-2015-0110484	Yes	
8427	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	PCT	PAT-Active	US	14/652590	9532316	US-2015-0341922-A1	Yes	
8428	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	CNT	PAT-Active	US	15/386808	9877282	US-2017-0201977-A1	Yes	
8429	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	CNT	PAT-Active	US	15/867089	10045336	US-2018-0132233-A1	Yes	
8430	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	CNT	PAT-Active	US	16/037752	10327233	US-2018-0343648-A1	Yes	
8431	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138703681	2941936	2941936		
8432	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138703681	69838888	2941936		
8433	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	138703681	2941936	2941936		
8434	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	138703681	2941936	2941936		
8435	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138703681	2941936	2941936		
8436	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/129296	10009813	US-2015-0016413-A1		
8437	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Pending	BR	112015014223-0		112015014223-0	Yes	
8438	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCD	APP-Pending	BR	122017006293-0		122017006293-0	Yes	
8439	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201380066053	ZL2013806660630	105144789	Yes	
8440	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	201710105356		106899971	Yes	
8441	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138721980	2946607	2946607	Yes	
8442	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	138721980	2946607	2946607	Yes	
8443	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	138721980	2946607	2946607	Yes	
8444	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	138721980	2946607	2946607	Yes	
8445	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	17169661	3226595	3226595	Yes	
8446	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	17169661	3226595	3226595		
8447	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138721980	2946607	2946607	Yes	
8448	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	17169661	3226595	3226595		
8449	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	17169661	3226595	3226595		
8450	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	17169661	3226595	3226595		
8451	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	138721980	2946607	2946607	Yes	
8452	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	138721980	2946607	2946607	Yes	
8453	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	138721980	2946607	2946607	Yes	
8454	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	138721980	2946607	2946607	Yes	
8455	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	138721980	2946607	2946607	Yes	
8456	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	138721980	2946607	2946607	Yes	
8457	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	138721980	2946607	2946607	Yes	
8458	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138721980	2946607	2946607	Yes	
8459	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	138721980	2946607	2946607	Yes	
8460	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	EPR	APP-Pending	HK	16105749		3237854	Yes	
8461	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-547932	6185078	2016-506659	Yes	
8462	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCD	APP-Pending	JP	2017-078767		2017-163568	Yes	
8463	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7015918	10-1713466	10-2015-0090121	Yes	
8464	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7005482	10-1828757	10-2017-0026640	Yes	
8465	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/129295	9525538	US-2015-0382281-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8466	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/294731	10292180	US-2017-0142691-A1	Yes	
8467	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	PCT	PAT-Active	CN	201380064571.9	ZL2013800645715	104854894	Yes	
8468	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	EP	138719356	2946583	2946583	Yes	
8469	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	AT	138719356	2946583	2946583	Yes	
8470	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	BE	138719356	2946583	2946583	Yes	
8471	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	CH	138719356	2946583	2946583	Yes	
8472	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	DE	138719356	2946583	2946583	Yes	
8473	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	EE	138719356	2946583	2946583	Yes	
8474	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	ES	138719356	2946583	2946583	Yes	
8475	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	FR	138719356	2946583	2946583	Yes	
8476	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	GB	138719356	2946583	2946583	Yes	
8477	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	GR	138719356	2946583	2946583	Yes	
8478	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	HU	138719356	2946583	2946583	Yes	
8479	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	IE	138719356	2946583	2946583	Yes	
8480	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	NL	138719356	2946583	2946583	Yes	
8481	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	EPT	PAT-Active	SK	138719356	2946583	2946583	Yes	
8482	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	PCT	PAT-Active	US	14/653451	9419973	US-2015-0350205-A1	Yes	
8483	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	CNT	PAT-Active	US	15/221499	9813404	US-2017-0134356-A1	Yes	
8484	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201380066181.3		105009511	Yes	
8485	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	EPT	APP-Pending	EP	138716865		2946525	Yes	
8486	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	FPR	APP-Pending	HK	16104883		1216958	Yes	
8487	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-549867	6254188	2016-511357	Yes	
8488	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-229484	6418665	2018-057027	Yes	
8489	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	PCT	PAT-Active	US	14/653455	9801054	US-2015-0334152-A1	Yes	
8490	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	CNT	PAT-Active	US	15/725205	10433327	US-2018-0035450-A1	Yes	
8491	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201810506515		108494454		
8492	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8493	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	PCT	APP-Pending	US	14/763123		US-2015-0373077-A1		
8494	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380066564.8	ZL2013800 646648	104885389	Yes	
8495	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	PCD	APP-Pending	CN	201810332068.8		108583885	Yes	
8496	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8497	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	ETD	APP-Pending	EP	19173692.5		3544223	Yes	
8498	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125605	9282571	US-2015-0188650-A1	Yes	
8499	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	15/013520	9860912	US-2016-0156454-A1	Yes	
8500	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	CNT	APP-Pending	US	16/148950		US-2019-0059095-A1	Yes	
8501	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	CNT	PAT-Active	US	15/722885	10129903	US-2018-0027581-A1	Yes	
8502	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380066189.8	ZL2013800 661898	105027597	Yes	
8503	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201811078518.2		109088714	Yes	
8504	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8505	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138721089		2946582	Yes	
8506	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16105016.1		1217073	Yes	
8507	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125606	9313802	US-2014-0307872-A1	Yes	
8508	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/078461	9967914	US-2016-0198343-A1	Yes	
8509	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/893212		US-2018-0167963-A1	Yes	463
8510	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380065448.8	ZL2013800 644888	104871444	Yes	
8511	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125608	9532213	US-2015-0139087-A1	Yes	
8512	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTANCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	138720685		2946596	Yes	
8513	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTANCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7016030	10-1776739	10-2015-0133080	Yes	
8514	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTANCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103101139	I531176	201434289	Yes	
8515	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTANCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	104144491	I605691	201614973	Yes	
8516	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTENCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/128809	10257849	US-2014-0247758-A1	Yes	
8517	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	14/655231	9888372	US-2015-0351139-A1	Yes	
8518	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	APP-Pending	US	15/804786		US-2018-0063861-A1	Yes	
8519	CHANNEL STATE INFORMATION-REFERENCE SIGNAL PATTERNS FOR TIME DIVISION DUPLEX SYSTEMS IN LONG TERM EVOLUTION WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380065464.7	ZL2013800 646474	104995855		
8520	CHANNEL STATE INFORMATION-REFERENCE SIGNAL PATTERNS FOR TIME DIVISION DUPLEX SYSTEMS IN LONG TERM EVOLUTION WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/126599	9455811	US-2014-0198675-A1		
8521	SYSTEMS AND METHODS FOR MOBILITY OPTIMIZATION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	138715511		2946604		
8523	SYSTEMS AND METHODS FOR MOBILITY OPTIMIZATION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/127973	9973986	US-2014-0198767-A1		
8523	SYSTEMS AND METHODS FOR GENERATING A DISCOVERY SIGNAL IN A DEVICE-TO-DEVICE OR NETWORK COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380064480.9	ZL2013800 644801	104885390		
8524	SYSTEMS AND METHODS FOR GENERATING A DISCOVERY SIGNAL IN A DEVICE-TO-DEVICE OR NETWORK COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/127929	9203568	US-2014-0198764-A1		
8525	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	ETD	APP-Pending	EP	13815580		3328122	Yes	
8526	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/128217	9313803	US-2015-0223133-A1	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8527	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/060390	9788201	US-2016-0183149-A1	Yes	
8528	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/697662	10448419	US-2018-0110064-A1	Yes	
8529	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	CNT	APP-Pending	US	16/448906		20200015253	Yes	
8530	FAST SMALL CELL DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800650802	ZL2013800 650802	104885504		
8531	FAST SMALL CELL DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	US	14/127479	9743305	US-2014-0198676-A1		
8532	DISCOVERY SIGNAL IN CLUSTER-BASED SMALL CELL	[redacted]	[redacted]	EPT	APP-Pending	EP	138713516		2946606		
8533	DEVICE-TO-DEVICE DISCOVERY WITH DIRECT RADIO SIGNALS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800654907	ZL2013800 654907	104854916		
8534	DEVICE-TO-DEVICE DISCOVERY WITH DIRECT RADIO SIGNALS	[redacted]	[redacted]	PCT	PAT-Active	US	14/122646	9526001	US-2014-0378123-A1		
8535	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800662570	ZL2013800 662570	105009478	Yes	
8536	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	FPR	APP-Pending	HK	161048692		1216949	Yes	
8537	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125871	9357463	US-2015-0215989-A1	Yes	
8538	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/141541	10051653	US-2016-0249406-A1	Yes	
8539	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	NP	PAT-Active	US	14/140764	9444863	US-2014-0365556-A1		
8540	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800226133	ZL2014800 226133	105144738		
8541	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	EPT	APP-Pending	EP	148076607		3005718		
8542	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	FPR	APP-Pending	HK	161059750		1218032		
8543	DATA PROCESSING DEVICE AND METHOD FOR DETERMINING A CLOCK RELATIONSHIP	[redacted]	[redacted]	NP	PAT-Active	US	14/474332	9898034	US-2015-0074444-A1		
8544	DATENVERARBEITUNGSVORRICHTUNG UND VERFAHREN ZUM BESTIMMEN EINES TAKTVERHÄLTNISSES	[redacted]	[redacted]	NP	PAT-Active	DE	1020131098185	########	102013109818		
8545	TECHNIQUES FOR FILTERING CANDIDATE CELLS	[redacted]	[redacted]	NP	PAT-Active	US	14/480807	10299147	US-2015-0071103-A1		
8546	SUBSCRIBER IDENTITY MODULE DATA ROUTING DEVICES METHODS FOR ROUTING SUBSCRIBER IDENTITY MODULE DATA CONTROL CIRCUITS AND METHODS FOR CONTROLLING A CHANGE OF A ROUTING	[redacted]	[redacted]	NP	PAT-Active	US	14/045955	9615232	US-2015-0099559-A1		
8547	SUBSCRIBER IDENTITY MODULE DATA ROUTING DEVICES METHODS FOR ROUTING SUBSCRIBER IDENTITY MODULE DATA CONTROL CIRCUITS AND METHODS FOR CONTROLLING A CHANGE OF A ROUTING	[redacted]	[redacted]	NP	APP-Pending	CN	2014106424695		104581872		
8548	SUBSCRIBER IDENTITY MODULE DATA ROUTING DEVICES METHODS FOR ROUTING SUBSCRIBER IDENTITY MODULE DATA CONTROL CIRCUITS AND METHODS FOR CONTROLLING A CHANGE OF A ROUTING	[redacted]	[redacted]	NP	APP-Pending	DE	1020141139232		102014113923		
8549	MOBILE TERMINALS AND METHODS FOR PERFORMING A MEASUREMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/474333	10091681	US-2015-0071101-A1		
8550	MOBILE ENDGERATE UND VERFAHREN ZUM DURCHFUHREN EINER MESSUNG	[redacted]	[redacted]	NP	APP-Pending	DE	1020131098169		102013109816		
8551	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	13/934095	9294230	US-2014-0003452-A1		
8552	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/019915	9661619	US-2016-0165592-A1		
8553	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/479655	9974064	US-2017-0208585-A1		
8554	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/909471		US-2018-0199336-A1		
8555	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800359287	ZL2013800 359287	104429015		
8556	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	PCD	APP-Pending	CN	2018101089646		108155977		
8557	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	FPD	APP-Pending	HK	181091712		1249809		
8558	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	PCD	APP-Pending	CN	2018104375353		108599906		
8559	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	FPD	APP-Pending	HK	181137406		1254729		
8560	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	EP	138259213	2880802	2880802		
8561	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	AT	138259213	2880802	2880802		
8562	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	BE	138259213	2880802	2880802		
8563	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	CH	138259213	2880802	2880802		
8564	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	ETD	APP-Pending	EP	181515685		3328142		
8565	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	DE	138259213	2880802	2880802		
8566	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	EE	138259213	2880802	2880802		
8567	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	ES	138259213	2880802	2880802		
8568	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	FR	138259213	2880802	2880802		
8569	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	GB	138259213	2880802	2880802		
8570	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	GR	138259213	2880802	2880802		
8571	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	HU	138259213	2880802	2880802		
8572	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	IE	138259213	2880802	2880802		
8573	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	NL	138259213	2880802	2880802		
8574	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	EPT	PAT-Active	SK	138259213	2880802	2880802		
8575	UPLINK POWER CONTROL FOR PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	NP	PAT-Active	US	13/953506	9338768	US-2014-0029532-A1		
8576	UPLINK POWER CONTROL FOR PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800353666	ZL2013800 353666	104429014		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8577	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	NP	PAT-Active	US	13/953521	9313779	US-2014-0029533-A1	Yes	
8578	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	CNT	PAT-Active	US	15/061612	10455555	US-2016-0192352-A1	Yes	
8579	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800368248		104429008	Yes	
8580	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8581	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	EPT	PAT-Active	EP	138264775	2880789	2880789	Yes	
8582	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	EPT	PAT-Active	DE	138264775	########	2880789	Yes	
8583	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	EPT	PAT-Active	FR	138264775	2880789	2880789	Yes	
8584	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	EPT	PAT-Active	GB	138264775	2880789	2880789	Yes	
8585	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	EPT	PAT-Active	NL	138264775	2880789	2880789	Yes	
8586	SYSTEMS AND METHODS FOR TRACKING ELAPSED TIME	[redacted]	[redacted]	NP	PAT-Active	US	14/084946	9317059	US-2015-0143156-A1		
8587	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	EP	138760301	2959729	2959729		
8588	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	AT	138760301	2959729	2959729		
8589	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	BE	138760301	2959729	2959729		
8590	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	CH	138760301	2959729	2959729		
8591	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	DE	138760301	2959729	2959729		
8592	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	EE	138760301	2959729	2959729		
8593	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	ES	138760301	2959729	2959729		
8594	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	FR	138760301	2959729	2959729		
8595	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	GB	138760301	2959729	2959729		
8596	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	GR	138760301	2959729	2959729		
8597	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	HU	138760301	2959729	2959729		
8598	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	IE	138760301	2959729	2959729		
8599	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	NL	138760301	2959729	2959729		
8600	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	EPT	PAT-Active	SK	138760301	2959729	2959729		
8601	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	PCT	PAT-Active	US	14/126723	9042279	US-2014-0269459-A1		
8602	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800705839	ZL2013800705839	104937995	Yes	
8603	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCD	APP-Pending	CN	2019106192794		110380980	Yes	
8604	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	EPT	PAT-Active	EP	138757877	2959726	2959726	Yes	
8605	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	EPT	PAT-Active	DE	138757877	########	2959726	Yes	
8606	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	EPT	PAT-Active	FR	138757877	2959726	2959726	Yes	
8607	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	EPT	PAT-Active	GB	138757877	2959726	2959726	Yes	
8608	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	EPT	PAT-Active	NL	138757877	2959726	2959726	Yes	
8609	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7019905	10-1710817	10-2015-0098672	Yes	
8610	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7004651	10-1833187	10-2017-0021911	Yes	
8611	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	NP	PAT-Active	TW	103103565	I517724	201503720	Yes	
8612	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCT	PAT-Active	US	14/128184	9967727	US-2015-0105076-A1	Yes	
8613	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	CNT	APP-Pending	US	15/941467		US-2018-0227738-A1	Yes	
8614	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380070574X	ZL201380070574X	104937994	Yes	
8615	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCD	APP-Pending	CN	2017101063247		107105387	Yes	
8616	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	FPD	APP-Pending	HK	181019178		1242890	Yes	
8617	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	APP-Pending	EP	138754973		2959725	Yes	
8618	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	ETD	APP-Pending	EP	171686959		3226618	Yes	
8619	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	NP	PAT-Active	TW	103103167	I535311	201436601	Yes	
8620	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/126900	9380444	US-2014-0295913-A1	Yes	
8621	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800749292	ZL2013800749292	105144768		
8622	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	FPR	APP-Pending	HK	161059723		1218210		
8623	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	PCT	PAT-Active	US	14/128093	9554416	US-2014-0321425-A1		
8624	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800809433		105723759		
8625	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	FPR	APP-Pending	HK	161129024		1224873		

	A	B	C	D	E	F	G	H	I	J	K
z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8626	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647015007		201647015007		
8627	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-540954	6449295	2017-507515		
8628	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7013200	10-1783667	10-2016-0075605		
8629	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380081087.8	ZL201380081087.8	105794251		
8630	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	138994660	3085143			
8631	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPR	APP-Pending	HK	16113413.4	3225217			
8632	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7013443	10-1806756	10-2016-0075632		
8633	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/365492	9456368	US-2015-0215795-A1		
8634	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	CN	201380070578.8		104938903	Yes	
8635	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	EP	138753611	2959734	2959734	Yes	
8636	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	AT	138753611	2959734	2959734	Yes	
8637	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	BE	138753611	2959734	2959734	Yes	
8638	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	CH	138753611	2959734	2959734	Yes	
8639	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	ETD	APP-Pending	EP	17196528		3291588	Yes	
8640	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	DE	138753611	2959734	2959734	Yes	
8641	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	EE	138753611	2959734	2959734	Yes	
8642	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	ES	138753611	2959734	2959734	Yes	
8643	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	FR	138753611	2959734	2959734	Yes	
8644	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	GB	138753611	2959734	2959734	Yes	
8645	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	GR	138753611	2959734	2959734	Yes	
8646	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	HU	138753611	2959734	2959734	Yes	
8647	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	IE	138753611	2959734	2959734	Yes	
8648	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	NL	138753611	2959734	2959734	Yes	
8649	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	EPT	PAT-Active	SK	138753611	2959734	2959734	Yes	
8650	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7019668	10-1716845	10-2015-0098668	Yes	
8651	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	US	14/757671	10045197	US-2016-0014589-A1	Yes	
8652	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	CNT	PAT-Active	US	15/722882	10278057	US-2018-0027401-A1	Yes	
8653	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	EP	138764816	2962485	2962485		
8654	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	DE	138764816	2962485	2962485		
8655	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	FR	138764816	2962485	2962485		
8656	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	GB	138764816	2962485	2962485		
8657	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	NL	138764816	2962485	2962485		
8658	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	US	14/125610	9706522	US-2014-0286159-A1		
8659	DEVICE TO DEVICE COMMUNICATION WITH CLUSTER COORDINATING	[redacted]	[redacted]	PCT	PAT-Active	CN	201380070492.5	ZL201380070492.5	104937859		
8660	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/769187	9814021	US-2015-0382224-A1		
8661	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480006241.5	ZL201480006241.5	104982074		
8662	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/756728	10104641	US-2015-0373604-A1		
8663	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	EPT	APP-Pending	EP	138753447		2959711	Yes	
8664	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	APP-Pending	IN	3699/CHENP/2015		3699/CHENP/2015	Yes	
8665	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7019689	10-1695579	10-2015-0102066	Yes	
8666	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7000154	10-1931889	10-2017-0005512	Yes	
8667	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	NP	PAT-Active	TW	103103566	I517725	201446024	Yes	
8668	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	PAT-Active	US	14/125606	9560512	US-2015-0036496-A1	Yes	
8669	END-TO-END (E2E) TUNNELING FOR MULTI-RADIO ACCESS TECHNOLOGY (MULTI-RAT)	[redacted]	[redacted]	PCT	PAT-Active	CN	201380079125.3	ZL201380079125.1	105557018		
8670	END-TO-END (E2E) TUNNELING FOR MULTI-RADIO ACCESS TECHNOLOGY (MULTI-RAT)	[redacted]	[redacted]	EPT	APP-Pending	EP	138948845		3050354		
8671	END-TO-END (E2E) TUNNELING FOR MULTI-RADIO ACCESS TECHNOLOGY (MULTI-RAT)	[redacted]	[redacted]	EPR	APP-Pending	HK	16113508.4		3223481		
8672	END-TO-END (E2E) TUNNELING FOR MULTI-RADIO ACCESS TECHNOLOGY (MULTI-RAT)	[redacted]	[redacted]	PCT	PAT-Active	US	14/125601	9456378	US-2015-0181459-A1		
8673	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380051650.2	ZL201380051650.2	104838697	Yes	
8674	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138534073		2915373	Yes	
8675	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7008362	10-1934918	10-2015-0087188	Yes	
8676	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	14/128301		US-2014-0206348-A1	Yes	
8677	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112015006455-8		112015006455-8	Yes	
8678	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201380050362.5		104685894	Yes	
8679	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138484142		2912850	Yes	
8680	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	ETD	APP-Pending	EP	16396540		3148290	Yes	
8681	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	EPR	APP-Pending	HK	15111919.8		1211159	Yes	
8682	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	APP-Pending	IN	657/CHENP/2015		657/CHENP/2015	Yes	
8683	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-534836	6239629	2016-502296	Yes	
8684	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-211432	6490778	2018-023169	Yes	
8685	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7007779	10-1773689	10-2015-0052184	Yes	
8686	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7023525	10-2015204	10-2017-0101313	Yes	
8687	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/125595	9762938	US-2015-0256861-A1	Yes	
8688	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/685812		US-2017-0353743-A1	Yes	
8689	SIGNALING AND CHANNEL DESIGNS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380036912.8	ZL201380036912.8	104429141		
8690	SIGNALING AND CHANNEL DESIGNS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	138250865		2880943		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8691	SIGNALING AND CHANNEL DESIGNS FOR D2D COMMUNICATIONS	[redacted]		PCT	PAT-Active	US	14/125973	9451604	US-2015-0049732-A1		
8692	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		NP	PAT-Active	US	14/142293	9473276	US-2015-0043439-A1		
8693	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		PCT	PAT-Active	CN	2014800391380	ZL2014800391380	105432027		
8694	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	EP	148337041	3031145	3031145		
8695	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	AT	148337041	3031145	3031145		
8696	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	BE	148337041	3031145	3031145		
8697	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	CH	148337041	3031145	3031145		
8698	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	DE	148337041	3031145	3031145		
8699	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	EE	148337041	3031145	3031145		
8700	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	ES	148337041	3031145	3031145		
8701	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	FR	148337041	3031145	3031145		
8702	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	GB	148337041	3031145	3031145		
8703	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	GR	148337041	3031145	3031145		
8704	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	HU	148337041	3031145	3031145		
8705	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	IE	148337041	3031145	3031145		
8706	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	NL	148337041	3031145	3031145		
8707	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		EPT	PAT-Active	SK	148337041	3031145	3031145		
8708	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]		FPR	APP-Pending	HK	161101892		1222051		
8709	ADAPTIVE CELL RANGE EXPANSION MECHANISMS FOR LTE CELLS	[redacted]		NP	PAT-Active	US	14/105957	9693271	US-2015-0172977-A1		
8710	ADAPTIVE CELL RANGE EXPANSION MECHANISMS FOR LTE CELLS	[redacted]		PCT	APP-Pending	CN	201480061387X		105706478		
8711	ADAPTIVE CELL RANGE EXPANSION MECHANISMS FOR LTE CELLS	[redacted]		EPT	APP-Pending	EP	148694979		3081029		
8712	ADAPTIVE CELL RANGE EXPANSION MECHANISMS FOR LTE CELLS	[redacted]		FPR	APP-Pending	HK	161129006		1224872		
8713	MOBILE RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A MOBILE RADIO COMMUNICATION DEVICE	[redacted]		NP	PAT-Active	DE	1020131145000	########	102013114500		
8714	MOBILE RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A MOBILE RADIO COMMUNICATION DEVICE	[redacted]		NP	APP-Pending	DE	1020131146503		102013114650		
8715	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]		NP	PAT-Active	DE	1020131148646	########	102013114864		
8716	SYSTEM AND METHOD FOR FREQUENCY CONTROL LOOP IN A MOBILE DEVICE WITH A PLURALITY OF SIMS	[redacted]		PCT	PAT-Active	CN	2013800811486	ZL2013800811486	105723616		
8717	ADJUSTING TUNING SEGMENTS IN A DIGITALLY-CONTROLLED OSCILLATOR	[redacted]		NP	PAT-Active	US	13/901481	9490825	US-2014-0347137-A1		
8718	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	[redacted]		NP	PAT-Active	US	13/904743	9470585	US-2014-0355651-A1		
8719	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	[redacted]		NP	PAT-Active	CN	2014102338084	ZL2014102338084	104215352		
8720	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	[redacted]		NP	PAT-Active	JP	2014-110166	5840734	2014-232108		
8721	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	[redacted]		NP	PAT-Active	KR	10-2014-0064623	10-1612359	10-2014-0140510		
8722	CONTINUOUS-TIME INCREMENTAL ANALOG-TO-DIGITAL CONVERTER	[redacted]		NP	PAT-Active	US	13/363884	8698664	US-2013-0194116-A1		
8723	COMMON-MODE FEEDBACK CIRCUIT	[redacted]		NP	PAT-Active	US	13/078430	8427237	US-2012-0154049-A1		
8724	DIGITAL VOLTAGE-CONTROLLED ATTENUATOR	[redacted]		NP	PAT-Active	US	13/207649	8447256	US-2013-0040591-A1		
8725	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]		EPA	PAT-Active	DE	111653572	########	2395670		
8726	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]		EPA	PAT-Active	EP	111653572	2395670	2395670		
8727	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]		EPA	PAT-Active	FR	111653572	2395670	2395670		
8728	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]		EPA	PAT-Active	GB	111653572	2395670	2395670		
8729	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		NP	PAT-Active	US	13/079473	8538354	US-2012-0252520-A1		
8730	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		NP	PAT-Active	CN	2012100556390	ZL2012100556390	102740431		
8731	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		DIV	PAT-Active	CN	2015106460978	ZL2015106460978	105227152		
8732	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPA	PAT-Active	EP	121540777	2509219	2509219		
8733	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	PAT-Active	EP	131634487	2615735	2615735		
8734	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	APP-Pending	EP	181729641		3399647		
8735	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	PAT-Active	DE	131634487	2615735	2615735		
8736	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPA	PAT-Active	DE	121540777	########	2509219		
8737	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	PAT-Active	FR	131634487	2615735	2615735		
8738	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	PAT-Active	GB	131634487	2615735	2615735		
8739	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPD	PAT-Active	NL	131634487	2615735	2615735		
8740	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPA	PAT-Active	FR	121540777	2509219	2509219		
8741	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		EPA	PAT-Active	GB	121540777	2509219	2509219		
8742	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	[redacted]		NP	PAT-Active	JP	2012-084927	5836868	2012-222816		
8743	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION	[redacted]		PCT	PAT-Active	CN	2013800343236	ZL2013800343236	104396174	Yes	
8744	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION	[redacted]		PCT	APP-Pending	IN	8602/CHENP/2014		8602/CHENP/2014	Yes	
8745	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION	[redacted]		PCT	PAT-Active	JP	2015-524502	6038316	2015-530011	Yes	
8746	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION(CA)	[redacted]		PCT	PAT-Active	KR	10-2014-7036129	10-1765380	10-2015-0037762	Yes	
8747	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISIONAL DUPLEX (TOO) CARRIER AGGREGATION (CA)	[redacted]		PCT	PAT-Active	MX	MX/a/2014/015149	342404	MX/a/2014/015149	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8748	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	PAT-Active	US	14/129128	9362998	US-2015-0131494-A1	Yes	
8749	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	12/719692	8515364	US-2011-0217940-A1		
8750	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Active	US	13/968995	8942649	US-2014-0051374-A1		
8751	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Active	US	14/570882	9838047	US-2015-0171900-A1		
8752	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGNMA MODULATOR WITH CURRENT-MODE INPUT	[redacted]	[redacted]	NP	PAT-Active	JP	2011-196652	5714457	2012-060644		
8753	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGMA MODULATOR WITH CURRENT-MODE INPUT ANALOG-TO-DIGITAL CONVERTER AND WIRELESS COMMUNICATION ELEMENT	[redacted]	[redacted]	NP	PAT-Active	KR	10-2011-0090175	10-1385955	10-2012-0027094		
8754	RECONFIGURABLE DIVERSITY RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	12/748915	8606196	US-2011-0237211-A1		
8755	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	[redacted]	[redacted]	NP	PAT-Active	US	13/912623	9055594	US-2014-0364132-A1		
8756	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	[redacted]	[redacted]	NP	PAT-Active	CN	201410251451 2	ZL2014102 514512	104244304		
8757	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	[redacted]	[redacted]	NP	PAT-Active	JP	2014-111050	5805828	2014-239434		
8758	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	[redacted]	[redacted]	NP	PAT-Active	KR	10-2014-0068052	10-1640660	10-2014-0143720		
8759	SELF-CALIBRATED DAC WITH REDUCED GLITCH MAPPING	[redacted]	[redacted]	NP	PAT-Active	US	13/192950	8493251	US-2013-0027235-A1		
8760	SIGNAL DUTY CYCLE REDUCTION	[redacted]	[redacted]	NP	PAT-Active	US	13/907796	9008231	US-2014-0355701-A1		
8761	SYSTEM AND METHOD FOR MULTIPLE BAND TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	12/895086	8198968	US-2012-0081203-A1		
8762	SYSTEM AND METHOD FOR A DUAL-PATH TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	13/207746	8494460	US-2013-0039434-A1		
8763	SYSTEM AND METHOD FOR A MULTI-BAND TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	13/207786	8447246	US-2013-0039438-A1		
8764	SYSTEM AND METHOD FOR CONTROLLING CURRENT TO CERTAIN COMPONENTS OF A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/184180	9059766	US-2013-0016619-A1		
8765	SYSTEM AND METHOD FOR CRYSTAL OSCILLATOR FREQUENCY TUNING	[redacted]	[redacted]	NP	PAT-Active	US	12/879525	8138844	US-2012-0063504-A1		
8766	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/173972	8891668	US-2013-0003891-A1		
8767	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201210231867 9	ZL2012102 318679	102857452		
8768	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	JP	2012-145548	5813587	2013-017169		
8769	SYSTEM AND METHOD FOR FREQUENCY-AGILE TRANSMISSION IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/208698	8934504	US-2013-0039368-A1		
8770	SYSTEM AND METHOD FOR HIGH PERFORMANCE COHERENT PEAK COMPRESSION ESTIMATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310561128 0	ZL2013105 611280	103873402		
8771	SYSTEM AND METHOD FOR IMPROVING POWER EFFICIENCY OF A TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	13/207712	8693961	US-2013-0040586-A1		
8772	SYSTEM AND METHOD FOR IMPROVING POWER EFFICIENCY OF A TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	CN	201210291047 9	ZL2012102 910479	102957390		
8773	SYSTEM AND METHOD FOR IMPROVING POWER EFFICIENCY OF A TRANSMITTER	[redacted]	[redacted]	EPA	APP-Pending	EP	121800890		2557686		
8774	SYSTEM AND METHOD FOR IMPROVING POWER EFFICIENCY OF A TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	JP	2012-176166	5840579	2013-042495		
8775	SYSTEM AND METHOD FOR LINEARIZATION OF A MIXER	[redacted]	[redacted]	NP	PAT-Active	US	13/419150	8493127	08493127		
8776	SYSTEM AND METHOD FOR PRESERVING INPUT IMPEDANCE OF A CURRENT-MODE CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/207672	8463206	US-2013-0040695-A1		
8777	SYSTEM AND METHOD FOR PRESERVING INPUT IMPEDANCE OF A CURRENT-MODE CIRCUIT	[redacted]	[redacted]	EPA	APP-Pending	EP	121789762		2557685		
8778	SYSTEM AND METHOD FOR PRESERVING INPUT IMPEDANCE OF A CURRENT-MODE CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	JP	2012-176154	5912983	2013-042494		
8779	SYSTEM AND METHOD FOR REDUCING LOCK ACQUISITION TIME OF A PHASE-LOCKED LOOP	[redacted]	[redacted]	NP	PAT-Active	US	13/080196	8599985	US-2012-0257701-A1		
8780	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/208190	8489044	US-2013-0039394-A1		
8781	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201210291038X	ZL2012102 91038X	102957647		
8782	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	121780407	2560286	2560286		
8783	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	121780407	2560286	2560286		
8784	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	121780407	2560286	2560286		
8785	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	121780407	2560286	2560286		
8786	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	APP-Pending	NL	121780407	2560286	2560286		
8787	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	JP	2012-176087	5778096	2013-042493		
8788	SYSTEM AND METHOD FOR SUPPORTING DIFFERENT TYPES OF OSCILLATOR CIRCUITS	[redacted]	[redacted]	NP	PAT-Active	US	13/100656	8466752	US-2012-0280842-A1		
8789	SYSTEM AND METHOD FOR SUPPORTING DIFFERENT TYPES OF OSCILLATOR CIRCUITS	[redacted]	[redacted]	DIV	PAT-Active	US	13/911876	8952761	US-2013-0285755-A1		
8790	SYSTEM AND METHOD FOR SWITCH LEAKAGE CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	US	12/882306	8451046	US-2012-0062307-A1		
8791	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/352083	9203138	US-2013-0183910-A1		
8792	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	13/053966	8938026	US-2012-0243579-A1		
8793	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201210083595 2	ZL2012100 835952	102694566		
8794	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	PAT-Active	CN	201510219750 2	ZL2015102 197502	104954027		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8795	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	201711074930?		107749768		
8796	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	121600852	2503701	2503701		
8797	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPD	PAT-Active	EP	153713989	2947781	2947781		
8798	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPD	PAT-Active	DE	153713989	2947781	2947781		
8799	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	121600852	2503701	2503701		
8800	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPD	PAT-Active	FR	153713989	2947781	2947781		
8801	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPD	PAT-Active	GB	153713989	2947781	2947781		
8802	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPD	PAT-Active	NL	153713989	2947781	2947781		
8803	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	121600852	2503701	2503701		
8804	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	121600852	2503701	2503701		
8805	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	NL	121600852	2503701	2503701		
8806	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	US	12/882498	8204456	US-2012-0064847-A1		
8807	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	CN	201110286673?	ZL2011102869732	102751999		
8808	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	DE	111806261	2432131	2432131		
8809	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	EP	111806261	2432131	2432131		
8810	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	FR	111806261	2432131	2432131		
8811	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	GB	111806261	2437131	2432131		
8812	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	IP	2012-200650	5864176	2012-065318		
8813	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	KR	10-2011-0091361	10-1396519	10-2012-0029327		
8814	TECHNIQUE TO GENERATE DIVIDE BY TWO AND 25 DUTY CYCLE	[redacted]	[redacted]	NP	PAT-Active	US	13/679516	8442472	US-2012-0252393-A1		
8815	TEMPERATURE DEPENDENT VOLTAGE REGULATOR	[redacted]	[redacted]	NP	PAT-Active	US	12/905241	8921178	US-2012-0094613-A1		
8816	TEMPERATURE COMPENSATION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/181287	8536932	US-2013-0015895-A1		
8817	TEMPERATURE COMPENSATION CIRCUIT	[redacted]	[redacted]	CNT	PAT-Active	US	13/971025	8803588	US-2013-0335136-A1		
8818	TEMPERATURE MEASUREMENT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/904645	9488529	US-2014-0355650-A1		
8819	DIFFERENTIAL TRANSMISSION LINE SHIELDED BY TWO OR MORE SPACED GROUPS OF SHIELDS	[redacted]	[redacted]	NP	PAT-Active	US	13/867847	8922293	US-2013-0300514-A1		
8820	TUNABLE WIDEBAND DISTRIBUTION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	13/594640	8964618	US-2014-0055218-A1		
8821	TUNABLE WIDEBAND DISTRIBUTION CIRCUIT	[redacted]	[redacted]	NP	APP-Pending	DE	102013109160?		102013109160		
8822	VARIABLE INDUCTOR FOR LC OSCILLATOR	[redacted]	[redacted]	NP	PAT-Active	US	13/720705	8860521	US-2014-0167867-A1		
8823	VARIABLE INDUCTOR FOR LC OSCILLATOR	[redacted]	[redacted]	NP	PAT-Active	CN	201310709180?	ZL2013103070315092	103888079		
8824	MULTI-STANDARD SYSTEMS AND METHODS WITH INTERFERER MITIGATION	[redacted]	[redacted]	NP	PAT-Active	US	14/230275	9655058	US-2015-0282099-A1		
8825	MULTI STANDARD SYSTEMS AND METHODS WITH INTERFERER MITIGATION	[redacted]	[redacted]	NP	APP-Pending	CN	201510208281?		104967862		
8826	MULTI STANDARD SYSTEM WITH MULTI-STANDARD INTERFERER MITIGATION	[redacted]	[redacted]	NP	APP-Pending	DE	102015102816?		102015102816		
8827	A TRANSMIT AND RECEIVE CIRCUIT AND A METHOD FOR AN ANTENNA SYSTEM HAVING A FIRST ANTENNA AND A SECOND ANTENNA	[redacted]	[redacted]	NP	APP-Pending	DE	102013112574?		102013112574		
8828	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	NP	PAT-Active	US	14/148136	9148153	US-2015-0188547-A1		
8829	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	14/857145	9537495	US-2016-0079992-A1		
8830	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/354066	10340913	US-2017-0070232-A1		
8831	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/458605		20190393938		
8832	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/841603	10205456	US-2017-0170833-A1		
8833	SYSTEMS AND METHODS FOR FREQUENCY DOMAIN CALIBRATION AND CHARACTERIZATION	[redacted]	[redacted]	NP	APP-Pending	DE	102014017623?		102014017623		
8834	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8835	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
8836	SYSTEMS AND METHODS TO COMPENSATE FOR MEMORY EFFECTS USING ENHANCED MEMORY POLYNOMIALS	[redacted]	[redacted]	NP	PAT-Active	US	14/178930	9628305	US-2015-0229498-A1		
8837	SYSTEMS AND METHODS TO COMPENSATE FOR MEMORY EFFECTS USING ENHANCED MEMORY POLYNOMIALS	[redacted]	[redacted]	NP	APP-Pending	DE	102015103903?		102015103903		
8838	AN APPARATUS AND A METHOD FOR PROVIDING OSCILLATOR SIGNALS	[redacted]	[redacted]	NP	APP-Pending	DE	102013113495?		102013113495		
8839	METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	13826192?		2880959		
8840	METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/126983	9363702	US-2015-0139197-A1		
8841	DEVICE TRIGGER RECALL/REPLACE FEATURE FOR 3GPP/M2M SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201380059396?	ZL2013800593662	104471876	Yes	
8842	DEVICE TRIGGER RECALL/REPLACE FEATURE FOR 3GPP/M2M SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	13825698?		2880782	Yes	
8843	DEVICE TRIGGER RECALL/REPLACE FEATURE FOR 3GPP/M2M SYSTEMS	[redacted]	[redacted]	FPR	PAT-Active	HK	15108193?	1207751	1207751	Yes	
8844	DEVICE TRIGGER RECALL/REPLACE FEATURE FOR 3GPP/M2M SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	14/126984	9554296	US-2015-0181564-A1	Yes	
8845	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201380059758?	ZL2013800597508	104472007	Yes	
8846	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EP	13826799?	2880951	2880951	Yes	
8847	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	AT	13826799?	2880951	2880951	Yes	
8848	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	BE	13826799?	2880951	2880951	Yes	
8849	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	CH	13826799?	2880951	2880951	Yes	
8850	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	DE	13826799?	2880951	2880951	Yes	
8851	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EE	13826799?	2880951	2880951	Yes	
8852	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	ES	13826799?	2880951	2880951	Yes	
8853	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	FR	13826799?	2880951	2880951	Yes	
8854	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GB	13826799?	2880951	2880951	Yes	
8855	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GR	13826799?	2880951	2880951	Yes	
8856	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	HU	13826799?	2880951	2880951	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8857	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]		EPT	PAT-Active	IE	138262993	2880951	2880951	Yes	
8858	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]		EPT	PAT-Active	NL	138262993	2880951	2880951	Yes	
8859	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]		EPT	PAT-Active	SK	138262993	2880951	2880951	Yes	
8860	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]		PCT	PAT-Active	KR	10-2014-7037025	10-1624994	10-2015-0020630	Yes	
8861	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]		PCT	PAT-Active	US	14/125592	9237478	US-2015-0201375-A1	Yes	
8862	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		PCT	PAT-Active	CN	2013800447216	ZL2013800447216	104737619	Yes	
8863	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		PCD	PAT-Active	CN	2016102892267	ZL2016102892267	106028471	Yes	
8864	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	EP	138414131	2901810	2901810	Yes	
8865	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	AT	138414131	2901810	2901810	Yes	
8866	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	BE	138414131	2901810	2901810	Yes	
8867	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	CH	138414131	2901810	2901810	Yes	
8868	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		ETD	APP-Pending	EP	161703392		3122149	Yes	
8869	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	DE	138414131	2901810	2901810	Yes	
8870	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	EE	138414131	2901810	2901810	Yes	
8871	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	ES	138414131	2901810	2901810	Yes	
8872	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	FR	138414131	2901810	2901810	Yes	
8873	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	GB	138414131	2901810	2901810	Yes	
8874	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	GR	138414131	2901810	2901810	Yes	
8875	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	HU	138414131	2901810	2901810	Yes	
8876	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	IE	138414131	2901810	2901810	Yes	
8877	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	NL	138414131	2901810	2901810	Yes	
8878	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		EPT	PAT-Active	SK	138414131	2901810	2901810	Yes	
8879	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		FPD	APP-Pending	HK	171036524		1230385	Yes	
8880	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		PCT	PAT-Active	KR	10-2015-7005286	10-1728252	10-2015-0040989	Yes	
8881	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		PCD	PAT-Active	KR	10-2016-7014442	10-1749012	10-2016-0066056	Yes	
8882	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]		PCT	PAT-Active	US	14/126252	9609602	US-2015-0223284-A1	Yes	
8883	ENHANCED NODE B CONFIGURED FOR USER PLANE EPS OPTIMIZATION	[redacted]		CNT	PAT-Active	US	15/086558	10264482	US-2016-0212638-A1	Yes	
8884	EBG DESIGNS FOR MITIGATING RADIO FREQUENCY INTERFERENCE	[redacted]		NP	PAT-Active	US	14/258683	10403973	US-2015-0303562-A1		
8885	EBG DESIGNS FOR MITIGATING RADIO FREQUENCY INTERFERENCE	[redacted]		CNT	APP-Pending	US	16/556866		US 2020-0058994 A1		
8886	EBG DESIGNS FOR MITIGATING RADIO FREQUENCY INTERFERENCE	[redacted]		NP	PAT-Active	CN	2015101233681	ZL2015101233681	105007710		
8887	EBG DESIGNS FOR MITIGATING RADIO FREQUENCY INTERFERENCE	[redacted]		NP	APP-Pending	DE	1020151033402		102015103340		
8888	HARQ IMPROVEMENT FOR TD-LTE UL/DL CONFIGURATION 2	[redacted]		NP	PAT-Active	CN	2013107464638	ZL2013107464638	104753649		
8889	METHOD AND RELATED MOBILE DEVICE FOR REFERENCE SIGNAL TIME DIFFERENCE BASED LOCALIZATION	[redacted]		NP	PAT-Active	US	14/580685	9702965	US-2015-0215884-A1		
8890	METHOD AND DEVICE FOR DETECTING INTERFERENCE SCENARIO	[redacted]		NP	PAT-Active	US	14/546183	10004039	US-2015-0156724-A1		
8891	METHOD AND DEVICE FOR DETECTING INTERFERENCE SCENARIO	[redacted]		NP	APP-Pending	CN	201410610840X		104703218		
8892	METHOD AND DEVICE FOR DETECTING INTERFERENCE SCENARIO	[redacted]		DIV	PAT-Active	DE	1020130223016	########	102013022301		
8893	INTERFERENCE AID FREQUENCY OFFSET ESTIMATION FOR USER EQUIPMENT	[redacted]		PCT	APP-Pending	CN	2013800807828		105940724		
8894	INTERFERENCE AID FREQUENCY OFFSET ESTIMATION FOR USER EQUIPMENT	[redacted]		EPT	APP-Pending	EP	138985254		3078227		
8895	INTERFERENCE AID FREQUENCY OFFSET ESTIMATION FOR USER EQUIPMENT	[redacted]		NP	APP-Pending	IN	5454/CHE/2014		5454/CHE/2014		
8896	METHOD AND DEVICE FOR NOISE AND INTERFERENCE ESTIMATION	[redacted]		NP	PAT-Active	DE	1020131138756	########			
8897	METHOD AND DEVICE FOR NOISE AND INTERFERENCE ESTIMATION	[redacted]		DIV	PAT-Active	DE	1020130223083	########			
8898	POSITIONING APPARATUS AND METHOD	[redacted]		CNT	PAT-Active	US	10/172801	6738713	US-2003-0009283-A1		
8899	POSITIONING APPARATUS AND METHOD	[redacted]		CNT	PAT-Active	US	10/074993	6539305	US-2002-0183925-A1		
8900	RECEIVER	[redacted]		NP	PAT-Active	US	09/473454	6795487			
8901	PCI PARTITION AND ALLOCATION FOR CELLULAR NETWORK	[redacted]		PCT	PAT-Active	CN	2013800516589	ZL2013800516589	105637917		
8902	PCI PARTITION AND ALLOCATION FOR CELLULAR NETWORK	[redacted]		FPR	APP-Pending	HK	161127115		1224492		
8903	PCI PARTITION AND ALLOCATION FOR CELLULAR NETWORK	[redacted]		PCT	PAT-Active	US	14/433815	9838932	US-2015-0245221-A1		
8904	METHOD TO ENABLE OPTIMIZATION FOR SMALL DATA IN AN EVOLVED PACKET CORE (EPC)	[redacted]		EPT	APP-Pending	EP	138516034		2915358		
8905	METHOD TO ENABLE OPTIMIZATION FOR SMALL DATA IN AN EVOLVED PACKET CORE (EPC)	[redacted]		PCT	PAT-Active	US	14/126611	9225399	US-2014-0269779-A1		
8906	TECHNIQUES FOR DEPLOYING SMALL CELLS AS SECONDARY CELLS FOR USER EQUIPMENT	[redacted]		PCT	PAT-Active	US	14/652478	9686677	US-2015-0341838-A1		
8907	IMPROVED HANDOVER WITH PING PONG AVOIDANCE IN A WIRELESS NETWORK	[redacted]		EPT	APP-Pending	EP	138754031		2959721		
8908	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
8909	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
8910	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
8911	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]					
8912	IMPROVED HANDOVER WITH PING PONG AVOIDANCE IN A WIRELESS NETWORK	[redacted]		PCT	PAT-Active	US	14/763204	9973915	US-2015-0373596-A1		
8913	UE BASED D2D DISCOVERY	[redacted]		PCT	APP-Pending	BR	112015017404-3		112015017404-3	Yes	
8914	UE-BASED D2D DISCOVERY	[redacted]		PCT	APP-Pending	CN	2013800704855		104919876	Yes	
8915	UE BASED D2D DISCOVERY	[redacted]		EPT	PAT-Active	EP	138757950	2959735	2959735	Yes	
8916	UE BASED D2D DISCOVERY	[redacted]		EPT	PAT-Active	AT	138757950	2959735	2959735	Yes	
8917	UE BASED D2D DISCOVERY	[redacted]		EPT	PAT-Active	BE	138757950	2959735	2959735	Yes	
8918	UE BASED D2D DISCOVERY	[redacted]		EPT	PAT-Active	CH	138757950	2959735	2959735	Yes	
8919	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	EP	172007726	3300398	3300398	Yes	
8920	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	AT	172007726	3300398	3300398	Yes	
8921	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	BE	172007726	3300398	3300398	Yes	
8922	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	CH	172007726	3300398	3300398	Yes	
8923	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	DE	172007726	########	3300398	Yes	
8924	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	EE	172007726	3300398	3300398	Yes	
8925	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	ES	172007726	3300398	3300398	Yes	
8926	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	FR	172007726	3300398	3300398	Yes	
8927	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	GB	172007726	3300398	3300398	Yes	
8928	UE BASED D2D DISCOVERY	[redacted]		ETD	PAT-Active	GR	172007726	3300398	3300398	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8929	UE BASED D2D DISCOVERY	[redacted]	[redacted]	ETD	PAT-Active	HU	172007726	3300398	3300398	Yes	
8930	UE BASED D2D DISCOVERY			ETD	PAT-Active	IE	172007726	3300398	3300398	Yes	
8931	UE BASED D2D DISCOVERY			ETD	PAT-Active	NL	172007726	3300398	3300398	Yes	
8932	UE BASED D2D DISCOVERY			ETD	PAT-Active	SK	172007726	3300398	3300398	Yes	
8933	UE BASED D2D DISCOVERY			EPT	PAT-Active	DE	138757950	2959735	2959735	Yes	
8934	UE BASED D2D DISCOVERY			EPT	PAT-Active	EE	138757950	2959735	2959735	Yes	
8935	UE BASED D2D DISCOVERY			EPT	PAT-Active	ES	138757950	2959735	2959735	Yes	
8936	UE BASED D2D DISCOVERY			EPT	PAT-Active	FR	138757950	2959735	2959735	Yes	
8937	UE BASED D2D DISCOVERY			EPT	PAT-Active	GB	138757950	2959735	2959735	Yes	
8938	UE BASED D2D DISCOVERY			EPT	PAT-Active	GR	138757950	2959735	2959735	Yes	
8939	UE BASED D2D DISCOVERY			EPT	PAT-Active	HU	138757950	2959735	2959735	Yes	
8940	UE BASED D2D DISCOVERY			EPT	PAT-Active	IE	138757950	2959735	2959735	Yes	
8941	UE BASED D2D DISCOVERY			EPT	PAT-Active	NL	138757950	2959735	2959735	Yes	
8942	UE BASED D2D DISCOVERY			EPT	PAT-Active	SK	138757950	2959735	2959735	Yes	
8943	UE-BASED D2D DISCOVERY			PCT	PAT-Active	JP	2015-535168	6100402	2016-508689	Yes	
8944	UE BASED D2D DISCOVERY			PCD	PAT-Active	JP	2017-022737	6316998	2017-085666	Yes	
8945	UE BASED D2D DISCOVERY			PCT	PAT-Active	KR	10-2015-7020003	10-1862414	10-2015-0102073	Yes	
8946	UE-BASED D2D DISCOVERY			PCT	PAT-Active	US	14/763209	9973916	US-2015-0365942-A1	Yes	
8947	UE-BASED D2D DISCOVERY			CNT	APP-Pending	US	15/987323		US-2018-0234829-A1	Yes	
8948	TARGETED GROUP-BASED DEVICE DISCOVERY FOR WIRELESS COMMUNICATION DEVICES			PCT	PAT-Active	CN	201380070584.3	ZL201380070584.3	104937961	Yes	
8949	TARGETED GROUP-BASED DISCOVERY FOR WIRELESS COMMUNICATION DEVICES			PCT	PAT-Active	US	14/762762	9736672	US-2015-0359023-A1	Yes	
8950	PATH SWITCHING PROCEDURE FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	PAT-Active	CN	201380070483.6	ZL201380070483.6	104919798	Yes	
8951	PATH SWITCHING PROCEDURE FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	PAT-Active	US	14/762764	9756497	US-2015-0359033-A1	Yes	
8952	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS			PCT	PAT-Active	US	14/765524	9969073	US-2015-0373563-A1	Yes	
8953	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS			CNT	APP-Pending	US	15/977780		US-2018-0263016-A1	Yes	
8954	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			PCT	PAT-Active	CN	201380071526.2	ZL201380071526.2	104956766	Yes	
8955	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	EP	138763842	2962521	2962521	Yes	
8956	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	AT	138763842	2962521	2962521	Yes	
8957	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	BE	138763842	2962521	2962521	Yes	
8958	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	CH	138763842	2962521	2962521	Yes	
8959	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	DE	138763842	########	2962521	Yes	
8960	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	EE	138763842	2962521	2962521	Yes	
8961	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	ES	138763842	2962521	2962521	Yes	
8962	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	FR	138763842	2962521	2962521	Yes	
8963	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	GB	138763842	2962521	2962521	Yes	
8964	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	GR	138763842	2962521	2962521	Yes	
8965	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	HU	138763842	2962521	2962521	Yes	
8966	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	IE	138763842	2962521	2962521	Yes	
8967	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	NL	138763842	2962521	2962521	Yes	
8968	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			EPT	PAT-Active	SK	138763842	2962521	2962521	Yes	
8969	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			PCT	PAT-Active	US	14/765285	9788303	US-2015-0373510-A1	Yes	
8970	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES			CNT	APP-Pending	US	15/691713		US-2017-0367072-A1	Yes	
8971	TECHNIQUES FOR CONNECTIONLESS SMALL DATA TRANSMISSION			PCT	PAT-Active	CN	201380071578.X	ZL201380071578.X	104995852		
8972	TECHNIQUES FOR CONNECTIONLESS SMALL DATA TRANSMISSION			PCT	PAT-Active	US	14/129951	9603336	US-2014-0334380-A1		
8973	METHOD AND APPARATUS FOR CONFIGURING AND USING SMALL DATA RADIO BEARERS			PCT	PAT-Active	CN	201380071495.0	ZL201380071495.0	104956721		
8974	METHOD AND APPARATUS FOR CONFIGURING AND USING SMALL DATA RADIO BEARERS			PCT	PAT-Active	US	14/766850	9967858	US-2015-0373733-A1		
8975	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION			EPT	APP-Pending	EP	13899[illegible]248		3085167		
8976	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION			EPR	APP-Pending	HK	17308966		1227597		
8977	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	EP	138805379	2979414	2979414		
8978	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	AT	138805379	2979414	2979414		
8979	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	BE	138805379	2979414	2979414		
8980	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	CH	138805379	2979414	2979414		
8981	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	DE	138805379	########	2979414		
8982	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	EE	138805379	2979414	2979414		
8983	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	ES	138805379	2979414	2979414		
8984	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	FR	138805379	2979414	2979414		
8985	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	GB	138805379	2979414	2979414		
8986	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	GR	138805379	2979414	2979414		
8987	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	HU	138805379	2979414	2979414		
8988	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	IE	138805379	2979414	2979414		
8989	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	NL	138805379	2979414	2979414		
8990	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING			EPT	PAT-Active	SK	138805379	2979414	2979414		
8991	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK			PCT	PAT-Active	CN	201380073744X	ZL201380073744X	105075305	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
8992	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161051188		1217261	Yes	
8993	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-560175	6204507	2016-514408	Yes	
8994	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCD	APP-Pending	JP	2017-130256		2017-195630	Yes	
8995	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7023578	10-1715794	10-2015-0114980	Yes	
8996	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	DIV	APP-Pending	KR	10-2018-7014465		10-2018-0056820	Yes	
8997	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	14/770880	9807591	US-2016-0007346-A1	Yes	
8998	ESTABLISHMENT OF CONNECTION TO THE INTERNET	[redacted]	[redacted]	PCD	PAT-Active	US	15/711839	10306460	US-2018-0014177-A1	Yes	
8999	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	PCT	PAT-Active	CN	201380074064X	ZL201380074064X	105027666	Yes	
9000	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	PCD	APP-Pending	CN	2019105935535		110381542	Yes	
9001	APPARATUS SYSTEM AND METHOD OF USER EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	EPT	APP-Pending	EP	138812128		2982216	Yes	
9002	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	FPR	APP-Pending	HK	161049502		1217070	Yes	
9003	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	NP	PAT-Active	TW	103112548	I531267	201446043	Yes	
9004	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	PCT	PAT-Active	US	14/772495	10271314	US-2016-0020890-A1	Yes	
9005	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800739110	ZL201380073911O	105009684	Yes	
9006	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161048273		1216963	Yes	
9007	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800101532	ZL201480010153 2	105075214	Yes	
9008	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	PCD	APP-Pending	CN	201810153713X		108600789	Yes	
9009	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
9010	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	AT	147742142	2979427	2979427	Yes	
9011	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	BE	147742142	2979427	2979427	Yes	
9012	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	CH	147742142	2979427	2979427	Yes	
9013	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	ETD	PAT-Active	EP	172083990	3324599	3324599	Yes	
9014	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	ETD	PAT-Active	DE	172083990	3324599	3324599		
9015	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	ETD	PAT-Active	FR	172083990	3324599	3324599		
9016	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	ETD	PAT-Active	GB	172083990	3324599	3324599		
9017	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	ETD	PAT-Active	NL	172083990	3324599	3324599		
9018	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	DE	147742142	########	2979427	Yes	
9019	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	EE	147742142	2979427	2979427	Yes	
9020	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	ES	147742142	2979427	2979427	Yes	
9021	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	FR	147742142	2979427	2979427	Yes	
9022	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	GB	147742142	2979427	2979427	Yes	
9023	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	GR	147742142	2979427	2979427	Yes	
9024	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	HU	147742142	2979427	2979427	Yes	
9025	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	IE	147742142	2979427	2979427	Yes	
9026	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	NL	147742142	2979427	2979427	Yes	
9027	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	PAT-Active	SK	147742142	2979427	2979427	Yes	
9028	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	DIV	PAT-Active	TW	105123241	I603615	201705767	Yes	
9029	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	DIV	PAT-Active	TW	106130850	I644566	201813410	Yes	
9030	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	PCT	PAT-Active	US	14/768298	10117089	US-2016-0014184-A1	Yes	
9031	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	CNT	PAT-Active	US	16/174128	10455404	US-2019-0075446-A1	Yes	
9032	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800737346		105075316	Yes	
9033	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	138799648		2979481	Yes	
9034	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9035	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9036	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9037	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9038	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161051160		1217260	Yes	
9039	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7023261	10-1723930	10-2015-0112001	Yes	
9040	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7008694	10-1906747	10-2017-0039757	Yes	
9041	WIRELESS LOCAL AREA NETWORK ELEMENT MANAGER INTEGRATION REFERENCE POINT MANAGER METHOD FOR COMMUNICATION AND COMPUTER-READABLE STORAGE MEDIUM	[redacted]	[redacted]	NP	PAT-Active	TW	103111451	I543645	201446025	Yes	
9042	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	14/771839		US-2016-0029249-A1	Yes	
9043	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800738438		105027499	Yes	
9044	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	FPR	APP-Pending	HK	161049548		1217064	Yes	
9045	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-561333	6279621	2016-517648	Yes	
9046	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	PCD	PAT-Active	JP	2018-005526	6487076	2018-082489	Yes	
9047	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	NP	PAT-Active	TW	103112537	I535307	201507499	Yes	
9048	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Pending	US	14/776625		US-2016-0044099-A1	Yes	
9049	TECHNIQUES TO FACILITATE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800736381	ZL201380073638 1	105075388		
9050	TECHNIQUES TO FACILITATE DUAL CONNECTIVITY	[redacted]	[redacted]	FPR	APP-Pending	HK	161051151		1217259		
9051	TECHNIQUES TO FACILITATE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	US	14/770141	9807590	US-2016-0014836-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9052	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800729034	ZL2013800729034	104995961	Yes	
9053	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	EP	138806237	2979499	2979499	Yes	
9054	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	AT	138806237	2979499	2979499	Yes	
9055	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	BE	138806237	2979499	2979499	Yes	
9056	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	CH	138806237	2979499	2979499	Yes	
9057	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	DE	138806237	2979499	2979499	Yes	
9058	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	EE	138806237	2979499	2979499	Yes	
9059	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	ES	138806237	2979499	2979499	Yes	
9060	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	FR	138806237	2979499	2979499	Yes	
9061	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	GB	138806237	2979499	2979499	Yes	
9062	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	GR	138806237	2979499	2979499	Yes	
9063	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	HU	138806237	2979499	2979499	Yes	
9064	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	IE	138806237	2979499	2979499	Yes	
9065	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	NL	138806237	2979499	2979499	Yes	
9066	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	EPT	PAT-Active	SK	138806237	2979499	2979499	Yes	
9067	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	PCT	PAT-Active	US	14/776069	9743268	US-2016-0021606-A1	Yes	
9068	USER EQUIPMENT AND METHOD FOR DISTRIBUTED CHANNEL ACCESS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800736220	ZL2013800736220	105075370		
9069	USER EQUIPMENT AND METHOD FOR DISTRIBUTED CHANNEL ACCESS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Closed	HK	161051142		1217258		
9070	USER EQUIPMENT AND METHOD FOR DISTRIBUTED CHANNEL ACCESS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/124217	9345046	US-2014-0295858-A1		
9071	NETWORK-ASSISTED LTE CHANNEL ACQUISITION	[redacted]	[redacted]	EPT	APP-Pending	EP	138809785		2982158		
9072	NETWORK-ASSISTED LTE CHANNEL ACQUISITION	[redacted]	[redacted]	PCT	PAT-Active	US	14/771853	9807743	US-2016-0021593-A1		
9073	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	[redacted]	[redacted]	FPR	APP-Pending	HK	161079523		1220068		
9074	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	[redacted]	[redacted]	NP	PAT-Active	TW	103112307	I544771	201445961		
9075	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	EP	138808100	2982154	2982154		
9076	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	AT	138808100	2982154	2982154		
9077	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	BE	138808100	2982154	2982154		
9078	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	CH	138808100	2982154	2982154		
9079	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	DE	138808100	2982154	2982154		
9080	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	EE	138808100	2982154	2982154		
9081	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	ES	138808100	2982154	2982154		
9082	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	FR	138808100	2982154	2982154		
9083	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	GB	138808100	2982154	2982154		
9084	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	GR	138808100	2982154	2982154		
9085	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	HU	138808100	2982154	2982154		
9086	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	IE	138808100	2982154	2982154		
9087	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	NL	138808100	2982154	2982154		
9088	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	EPT	PAT-Active	SK	138808100	2982154	2982154		
9089	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/781497	10051611	US-2016-0044704-A1		
9090	METHOD AND APPARATUS FOR CONTROLLING SMALL DATA TRANSMISSION ON THE UPLINK	[redacted]	[redacted]	PCT	PAT-Active	CN	201380051575X	ZL201380051575X	104904137		
9091	METHOD AND APPARATUS FOR CONTROLLING SMALL DATA TRANSMISSION ON THE UPLINK	[redacted]	[redacted]	PCT	PAT-Active	US	14/124939	9930596	US-2015-0230234-A1		
9092	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800811965	ZL2013800811965	105766012		
9093	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	PCD	APP-Pending	CN	2018110374729		109660994		
9094	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	139002307		3087775		
9095	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	ETD	APP-Pending	EP	181953803		3442253		
9096	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	FPR	APP-Pending	HK	161131011		1224882		
9097	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	14/361745	9326156	US-2015-0304852-A1		
9098	USER EQUIPMENT AND METHOD FOR ASSISTED THREE DIMENSIONAL BEAMFORMING	[redacted]	[redacted]	PCT	PAT-Active	US	14/368699	9564957	US-2016-0191131-A1	Yes	
9099	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC ACCESS NETWORK SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/093476	9414392	US-2014-0153511-A1	Yes	
9100	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC ACCESS NETWORK SELECTION	[redacted]	[redacted]	CNT	PAT-Active	US	15/006270	10219281	US-2016-0142163-A1	Yes	
9101	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/068221	10356640	US-2014-0161103-A1	Yes	
9102	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/607607	10194360	US-2017-0332291-A1	Yes	
9103	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/715463	10194361	US-2018-0020383-A1	Yes	
9104	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800737399	ZL2013800737399	105103634	Yes	
9105	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	2016105963917		106060912	Yes	
9106	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	138806229	2979504	2979504	Yes	
9107	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	138806229	2979504	2979504	Yes	
9108	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	138806229	2979504	2979504	Yes	
9109	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	138806229	2979504	2979504	Yes	
9110	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	138806229	2979504	2979504	Yes	
9111	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	138806229	2979504	2979504	Yes	
9112	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	138806229	2979504	2979504	Yes	
9113	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	138806229	2979504	2979504	Yes	
9114	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	138806229	2979504	2979504	Yes	
9115	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	138806229	2979504	2979504	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9116	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	138806229	2979504	2979504	Yes	
9117	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	138806229	2979504	2979504	Yes	
9118	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	138806229	2979504	2979504	Yes	
9119	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	138806229	2979504	2979504	Yes	
9120	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161055102		1217589	Yes	
9121	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	171014824		1228157	Yes	
9122	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	TW	103111024	I528851	201505470	Yes	
9123	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	TW	105103027	I590695	201640944	Yes	
9124	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	DIV	PAT-Active	TW	106114307	I640212	201731331	Yes	
9125	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/779024	9794876	US-2016-0057701-A1	Yes	
9126	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	PAT-Active	US	15/730313	10470122	US-2018-0098280-A1	Yes	
9127	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	AU	2013323321	########	2013323321	Yes	
9128	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCD	PAT-Active	AU	2017200813	########	2017200813	Yes	
9129	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112015004583-9		112015004583-9	Yes	
9130	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	CA	2879206	2879206	2879206	Yes	
9131	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800452089	ZL2013800 452089	104584464	Yes	
9132	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCD	APP-Pending	CN	2018100438885		108112064	Yes	
9133	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	FPD	APP-Pending	HK	181144149		1255305	Yes	
9134	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	138418140	2901577	2901577	Yes	
9135	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	138418140	2901577	2901577	Yes	
9136	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	EP	171982861	3300261	3300261	Yes	
9137	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	AT	171982861	3300261	3300261	Yes	
9138	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	BE	171982861	3300261	3300261	Yes	
9139	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	CH	171982861	3300261	3300261	Yes	
9140	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	DE	171982861	3300261	3300261	Yes	
9141	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	EE	171982861	3300261	3300261	Yes	
9142	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	ES	171982861	3300261	3300261	Yes	
9143	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	FR	171982861	3300261	3300261	Yes	
9144	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	GB	171982861	3300261	3300261	Yes	
9145	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	GR	171982861	3300261	3300261	Yes	
9146	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	HU	171982861	3300261	3300261	Yes	
9147	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	IE	171982861	3300261	3300261	Yes	
9148	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	NL	171982861	3300261	3300261	Yes	
9149	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	ETD	PAT-Active	SK	171982861	3300261	3300261	Yes	
9150	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	138418140	########	2901577	Yes	
9151	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	138418140	2901577	2901577	Yes	
9152	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	138418140	2901577	2901577	Yes	
9153	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	138418140	2901577	2901577	Yes	
9154	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	138418140	2901577	2901577	Yes	
9155	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	138418140	2901577	2901577	Yes	
9156	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	138418140	2901577	2901577	Yes	
9157	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	138418140	2901577	2901577	Yes	
9158	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	138418140	2901577	2901577	Yes	
9159	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	FPR	PAT-Active	HK	151106772	1209922	1209922	Yes	
9160	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201501088	IDP000064 009	2017/02830	Yes	
9161	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	1096/CHENP/2015		1096/CHENP/2015	Yes	
9162	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005133	10-1700050	10-2015-0054779	Yes	
9163	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7000865	10-2025995	10-2017-0007551	Yes	
9164	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2015/003474	342952	MX/a/2015/003474	Yes	
9165	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCD	PAT-Active	MX	MX/a/2016/013514	357472		Yes	
9166	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
9167	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/125593	9277440	US-2015-0092641-A1	Yes	
9168	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/013386	9843958	US-2016-0157178-A1	Yes	
9169	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/697380	10111128	US-2017-0374577-A1	Yes	
9170	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800455636	ZL2013800 455636	104737485	Yes	
9171	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCD	APP-Pending	CN	2018104120369		108566267	Yes	
9172	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	FPD	APP-Pending	HK	181134089		1254332	Yes	
9173	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	EP	138410501	2901603	2901603	Yes	
9174	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	DE	138410501	2901603	2901603	Yes	
9175	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	FR	138410501	2901603	2901603	Yes	

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9176	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	GB	138410501	2901603	2901603	Yes	
9177	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	NL	138410501	2901603	2901603	Yes	
9178	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-534731	5984277	2015-534394	Yes	
9179	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005066	10-1800707	10-2015-0038423	Yes	
9180	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	US	14/125706	9374806	US-2015-0195822-A1	Yes	
9181	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	CNT	PAT-Active	US	15/182892	9603132	US-2016-0374097-A1	Yes	
9182	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800447606	ZL2013800447606	105103590	Yes	
9183	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	CN	201910402277X		110311714	Yes	
9184	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	138413463	2901740	2901740	Yes	
9185	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	138413463	2901740	2901740	Yes	
9186	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	138413463	2901740	2901740	Yes	
9187	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	138413463	2901740	2901740	Yes	
9188	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	138413463	2901740	2901740	Yes	
9189	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	138413463	2901740	2901740	Yes	
9190	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	138413463	2901740	2901740	Yes	
9191	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	138413463	2901740	2901740	Yes	
9192	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	138413463	2901740	2901740	Yes	
9193	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	138413463	2901740	2901740	Yes	
9194	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	138413463	2901740	2901740	Yes	
9195	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	138413463	2901740	2901740	Yes	
9196	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	138413463	2901740	2901740	Yes	
9197	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	138413463	2901740	2901740	Yes	
9198	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	161052105		1217263	Yes	
9199	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-528730	5996805	2015-532047	Yes	
9200	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-030724	6283382	2016-119709	Yes	
9201	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7005276	10-1828887	10-2015-0064016	Yes	
9202	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	14/125749	9332456	US-2015-0305083-A1	Yes	
9203	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	14/757660	9949164	US-2016-0128127-A1	Yes	
9204	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	15/244676	10045245	US-2016-0366722-A1	Yes	
9205	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/015810		US-2018-0302820-A1	Yes	
9206	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	AU	2013334019	########	2013334019	Yes	
9207	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCD	PAT-Active	AU	2016200390	########	2016200390	Yes	
9208	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCD	PAT-Active	AU	2017203829	########	2017203829	Yes	
9209	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	APP-Pending	BR	112015006675-5		112015006675-5	Yes	
9210	STREAMING WITH COORDINATION OF VIDEO ORIENTATION	[redacted]	[redacted]	PCT	APP-Pending	CA	2880588		2880588	Yes	
9211	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800504346	ZL2013800504346	104704844	Yes	
9212	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	EPT	APP-Pending	EP	138487384		2912851	Yes	
9213	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	ETD	APP-Pending	EP	161917398		3139698	Yes	
9214	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9215	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9216	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9217	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9218	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	FPR	APP-Pending	HK	151081619		1207770	Yes	
9219	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	IN	658/CHENP/2015	313542		Yes	
9220	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-539883	6105741	2016-500987	Yes	
9221	STREAMING WITH COODRINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-039865	6455741	2017-143528	Yes	
9222	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7007822	10-1703268	10-2015-0048216	Yes	
9223	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7002717	10-1843328	10-2017-0015563	Yes	
9224	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	NP	PAT-Active	TW	103119569	I568252	201501515	Yes	
9225	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	PAT-Active	US	14/125599	9215262	US-2015-0089074-A1	Yes	
9226	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	CNT	PAT-Active	US	14/956130	9438658	US-2016-0088053-A1	Yes	
9227	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	CNT	PAT-Active	US	15/232331	10432692	US-2016-0352799-A1	Yes	
9228	APPARATUS FOR RECEIVING RANGING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	09/731167	6664921	US-2002-0033766-A1		
9229	TIME REFERENCE SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/562099	8184046	US-2010-0188286-A1		
9230	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	2009801454757	ZL2009801454757	102216801		
9231	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	DE	97851281	########	2329287		
9232	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	EPT	PAT-Active	EP	97851281	2329287	2329287		
9233	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	IN	2208/DELNP/2011		2208/DELNP/2011		
9234	MOBILE RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A MOBILE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	DE	1020141090764	########	102014109076		
9235	TEMPERATURE COMPENSATION IN A TELECOMMUNICATIONS DEVICE	[redacted]	[redacted]	EPT	PAT-Active	DE	107200248	########	2425532		
9236	TEMPERATURE COMPENSATION IN A TELECOMMUNICATIONS DEVICE	[redacted]	[redacted]	EPT	PAT-Active	EP	107200248	2425532	2425532		
9237	RETROSPECTIVE EPHEMERIS COLLECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/273741	9885786	US-2015-0063342-A1		
9238	RETROSPECTIVE EPHEMERIS COLLECTION	[redacted]	[redacted]	NP	APP-Pending	DE	1020141066669		102014106666		
9239	METHOD APPARATUS AND COMPUTER PROGRAM FOR DETERMINING AN INTERPOLATED COMPLEX VALUED SAMPLE	[redacted]	[redacted]	NP	PAT-Active	US	14/708431	9871682	US-2015-0363362-A1		
9240	METHOD APPARATUS AND COMPUTER PROGRAM FOR DETERMINING AN INTERPOLATED COMPLEX VALUED SAMPLE	[redacted]	[redacted]	NP	APP-Pending	DE	1020141083458		102014108345		
9241	HYBRID REFERENCE SIGNALS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800749502	ZL2013800749502	105052227		
9242	HYBRID REFERENCE SIGNALS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161051115		1217146		
9243	HYBRID REFERENCE SIGNALS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/778037	10306589	US-2016-0294514-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9244	PHYSICAL RESOURCE BLOCK (PRB)-RESTRICTED INTERFERENCE AVERAGING IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	138765441		2962406		
9245	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9246	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9247	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9248	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9249	PHYSICAL RESOURCE BLOCK (PRB)-RESTRICTED INTERFERENCE AVERAGING IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	US	14/764547	10271304	US-2015-0365960-A1		
9250	QUASI CO-LOCATION AND PDSCH RESOURCE ELEMENT MAPPING SIGNALING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800715169	ZL2013800 715169	104982063		
9251	QUASI CO-LOCATION AND PDSCH RESOURCE ELEMENT MAPPING SIGNALING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/764540	10103797	US-2015-0365154-A1		
9252	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800808089	ZL2013800 808089	105705965		
9253	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138996202		3084472		
9254	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161129015		1224748		
9255	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-537435	6312829	2017-500559		
9256	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7012953	10-1906275	10-2016-0073990		
9257	MOBILE-TERMINATED EMERGENCY CALL	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800809715	ZL2013800 809715	105723757		
9258	MOBILE-TERMINATED EMERGENCY CALL	[redacted]	[redacted]	EPT	APP-Pending	EP	138994991		3085124		
9259	MOBILE-TERMINATED EMERGENCY CALL	[redacted]	[redacted]	FPR	APP-Pending	HK	161125956		1224486		
9260	MOBILE-TERMINATED EMERGENCY CALL	[redacted]	[redacted]	PCT	PAT-Active	US	14/359880	9763072	US-2015-0172895-A1		
9261	ENODEB REFERENCE SIGNAL REDUCTION	[redacted]	[redacted]	EPT	PAT-Active	EP	138802509	2979369	2979369		
9262	ENODEB REFERENCE SIGNAL REDUCTION	[redacted]	[redacted]	EPT	PAT-Active	DE	138802509	2979369	2979369		
9263	ENODEB REFERENCE SIGNAL REDUCTION	[redacted]	[redacted]	PCT	PAT-Active	US	14/766952	9730050	US-2016-0020843-A1		
9264	LOW POWER DEVICE TO DEVICE TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800737331	ZL2013800 737331	105027655		
9265	LOW POWER DEVICE TO DEVICE TRANSMISSION	[redacted]	[redacted]	FPR	APP-Pending	HK	161049539		1217071		
9266	LOW POWER DEVICE TO DEVICE TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	US	14/769411	9826391	US-2015-0382365-A1		
9267	USER EQUIPMENT HANDOVER ERROR REPORTING	[redacted]	[redacted]	PCT	APP-Pending	CN	2013800809414		105766018		
9268	USER EQUIPMENT HANDOVER ERROR REPORTING	[redacted]	[redacted]	EPT	APP-Pending	EP	138994579		3085145		
9269	USER EQUIPMENT HANDOVER ERROR REPORTING	[redacted]	[redacted]	FPR	APP-Pending	HK	161130977		1224880		
9270	USER EQUIPMENT HANDOVER ERROR REPORTING	[redacted]	[redacted]	PCT	PAT-Active	US	14/359874	9763127	US-2015-0237516-A1		
9271	REDUCTION OF BUFFER OVERFLOW	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800753512	ZL2013800 753512	105103606		
9272	REDUCTION OF BUFFER OVERFLOW	[redacted]	[redacted]	FPR	APP-Pending	HK	161055157		1217592		
9273	REDUCTION OF BUFFER OVERFLOW	[redacted]	[redacted]	PCT	PAT-Active	US	14/782783	10164693	US-2016-0057044-A1		
9274	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	138840335	2995019	2995019		
9275	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	138840335	2995019	2995019		
9276	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	138840335	2995019	2995019		
9277	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	138840335	2995019	2995019		
9278	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	138840335	########	2995019		
9279	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	138840335	2995019	2995019		
9280	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	138840335	2995019	2995019		
9281	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	138840335	2995019	2995019		
9282	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	138840335	2995019	2995019		
9283	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	138840335	2995019	2995019		
9284	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	138840335	2995019	2995019		
9285	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	138840335	2995019	2995019		
9286	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	138840335	2995019	2995019		
9287	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	138840335	2995019	2995019		
9288	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/782784	9900772	US-2016-0029417-A1		
9289	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800202124		105103609		
9290	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	161055148		1217591		
9291	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800204469	ZL2014800 204469	105340190		
9292	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	147941637		2995012		
9293	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	161095499		1221561		
9294	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/784257	9954587	US-2016-0065290-A1		
9295	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800201437	ZL2014800 201437	105359477		
9296	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161089530		1221089		
9297	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201480020116X		105191200		
9298	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	147945547		2995030		
9299	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161067457		1218813		
9300	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800754341	ZL2013800 754341	105122672		
9301	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	161055139		1217581		
9302	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/782781	10153816	US-2016-0057797-A1		
9303	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800651044	ZL2013800 651044	104854835	Yes	
9304	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	EPT	APP-Pending	EP	138715388		2946539	Yes	
9305	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	PCT	PAT-Active	JP	2015-550736	6151798	2016-510527	Yes	
9306	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-103554	6479888	2017-184260	Yes	
9307	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	PCT	PAT-Active	US	14/653779	9906526	US-2015-0326572-A1	Yes	
9308	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	CNT	APP-Pending	US	15/808748		US-2018-0069856-A1	Yes	
9309	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	EPT	PAT-Active	EP	138845284	2997670	2997670		
9310	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	EPT	PAT-Active	AT	138845284	2997670	2997670		
9311	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	EPT	PAT-Active	BE	138845284	2997670	2997670		
9312	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	EPT	PAT-Active	CH	138845284	2997670	2997670		
9313	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	EPT	PAT-Active	DE	138845284	########	2997670		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9314	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]		EPT	PAT-Active	EE	138845284	2997670	2997670		
9315	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	ES	138845284	2997670	2997670		
9316	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	FR	138845284	2997670	2997670		
9317	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	GB	138845284	2997670	2997670		
9318	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	GR	138845284	2997670	2997670		
9319	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	HU	138845284	2997670	2997670		
9320	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	IE	138845284	2997670	2997670		
9321	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	NL	138845284	2997670	2997670		
9322	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			EPT	PAT-Active	SK	138845284	2997670	2997670		
9323	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS			PCT	PAT-Active	US	14/785116	10044613	US-2016-0094446-A1		
9324	HYBRID DIGITAL AND ANALOG BEAMFORMING FOR LARGE ANTENNA ARRAYS			PCT	PAT-Active	CN	2013800759699	ZL2013800 759699	105144600		
9325	HYBRID DIGITAL AND ANALOG BEAMFORMING FOR LARGE ANTENNA ARRAYS			FPR	APP-Pending	HK	161059778		1218027		
9326	HYBRID DIGITAL AND ANALOG BEAMFORMING FOR LARGE ANTENNA ARRAYS			PCT	PAT-Active	US	14/784256	9647735	US-2016-0080051-A1		
9327	NETWORK-LEVEL DEVICE PROXIMITY DETECTION			NP	PAT-Active	US	14/138175	9462567	US-2014-0248901-A1	Yes	
9328	WIRELESS TRANSMISSION PRECODING			EPT	PAT-Active	EP	138829262	2989726	2989726	Yes	
9329	WIRELESS TRANSMISSION PRECODING			EPT	PAT-Active	DE	138829262	2989726	2989726	Yes	
9330	WIRELESS TRANSMISSION PRECODING			EPT	PAT-Active	FR	138829262	2989726	2989726	Yes	
9331	WIRELESS TRANSMISSION PRECODING			EPT	PAT-Active	GB	138829262	2989726	2989726	Yes	
9332	WIRELESS TRANSMISSION PRECODING			EPT	PAT-Active	NL	138829262	2989726	2989726	Yes	
9333	WIRELESS TRANSMISSION PRECODING			FPR	APP-Pending	HK	161093516		1221343	Yes	
9334	WIRELESS TRANSMISSION PRECODING			NP	PAT-Active	TW	103113450	I559699	201448505	Yes	
9335	WIRELESS TRANSMISSION PRECODING			DIV	PAT-Active	TW	105128946	I619361	201717557	Yes	
9336	WIRELESS TRANSMISSION PRECODING			DIV	PAT-Active	TW	107100057	I673966	201838357	Yes	
9337	WIRELESS TRANSMISSION PRECODING			PCT	PAT-Active	US	14/778040	10027388	US-2016-0308593-A1	Yes	
9338	RSRP MOBILITY STATE ESTIMATION FOR CELLULAR DEVICE			PCT	PAT-Active	CN	2013800456319	ZL2013800 456319	104813693		
9339	RSRP MOBILITY STATE ESTIMATION FOR CELLULAR DEVICE			PCT	PAT-Active	US	14/127830	9591581	US-2015-0223050-A1		
9340	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			NP	PAT-Active	US	14/318098	9380494	US-2015-0092553-A1	Yes	
9341	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			CNT	PAT-Active	US	15/137974	9832677	US-2016-0255533-A1	Yes	
9342	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			CNT	PAT-Active	US	15/804870	10306507	US-2018-0132127-A1	Yes	
9343	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			PCT	APP-Pending	CN	2014800473662		105493556	Yes	
9344	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	EP	148482250	3050349	3050349	Yes	
9345	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	AT	148482250	3050349	3050349	Yes	
9346	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	BE	148482250	3050349	3050349	Yes	
9347	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	CH	148482250	3050349	3050349	Yes	
9348	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			ETD	APP-Pending	EP	181939695		3432634	Yes	
9349	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	DE	148482250	########	3050349	Yes	
9350	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	EE	148482250	3050349	3050349	Yes	
9351	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	ES	148482250	3050349	3050349	Yes	
9352	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	FR	148482250	3050349	3050349	Yes	
9353	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	GB	148482250	3050349	3050349	Yes	
9354	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	GR	148482250	3050349	3050349	Yes	
9355	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	HU	148482250	3050349	3050349	Yes	
9356	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	IE	148482250	3050349	3050349	Yes	
9357	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	NL	148482250	3050349	3050349	Yes	
9358	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	SI	148482250	3050349	3050349	Yes	
9359	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			EPT	PAT-Active	SK	148482250	3050349	3050349	Yes	
9360	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			FPR	APP-Pending	HK	161117475		1223762	Yes	
9361	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			PCT	PAT-Active	JP	2016-540891	6331110	2016-529857	Yes	
9362	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			PCT	PAT-Active	KR	10-2016-7004870	10-1769116	10-2016-0035049	Yes	
9363	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING			PCD	APP-Pending	KR	10-2017-7022466		10-2017-0096219	Yes	
9364	METHOD USER EQUIPMENT AND COMPUTER-READABLE STORAGE MEDIUM FOR OFFLOADING CELLULAR TRAFFIC TO WIRELESS LOCAL AREA NETWORK TRAFFIC			NP	PAT-Active	TW	103133285	I532343	201534080	Yes	
9365	METHOD USER EQUIPMENT AND COMPUTER-READABLE STORAGE MEDIUM FOR OFFLOADING CELLULAR TRAFFIC TO WIRELESS LOCAL AREA NETWORK TRAFFIC			DIV	PAT-Active	TW	105105808	I634800	201635823	Yes	
9366	BANG-BANG TIME TO DIGITAL CONVERTER SYSTEMS AND METHODS			NP	PAT-Active	US	14/513348	9395698	US-2016-0103423-A1		
9367	BANG-BANG TIME TO DIGITAL CONVERTER SYSTEMS AND METHODS			NP	PAT-Active	CN	2015105835115	ZL2015105 835115	105515570		
9368	BANG-BANG TIME TO DIGITAL CONVERTER SYSTEMS AND METHODS			NP	APP-Pending	IN	4466/CHE/2015		4466/CHE/2015		
9369	BANG-BANG TIME TO DIGITAL CONVERTER SYSTEMS AND METHODS			NP	PAT-Active	TW	104129526	I568194	201624927		
9370	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION			NP	PAT-Active	TW	103113872	I517726	201509204	Yes	
9371	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION			DIV	PAT-Active	TW	104139673	I578809	201611634	Yes	
9372	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION			PCT	APP-Pending	US	14/771859		US-2016-0029247-A1	Yes	
9373	DIAMETER/XML PROTOCOL CONVERSION			PCT	APP-Pending	BR	112015024631-1		112015024631-1	Yes	
9374	DIAMETER/XML PROTOCOL CONVERSION			PCT	APP-Pending	CN	2014800171840		105052114	Yes	
9375	DIAMETER/XML PROTOCOL CONVERSION			EPT	APP-Pending	EP	147889901		2989777	Yes	
9376	DIAMETER/XML PROTOCOL CONVERSION			FPR	APP-Pending	HK	161051106		1217144	Yes	
9377	DIAMETER/XML PROTOCOL CONVERSION			PCT	PAT-Active	JP	2016-502616	6272984	2016-521395	Yes	
9378	DIAMETER/XML PROTOCOL CONVERSION			NP	PAT-Active	TW	103113447	I542231	201507511	Yes	
9379	DIAMETER/XML PROTOCOL CONVERSION			PCT	APP-Pending	US	14/778983		US-2016-0056992-A1	Yes	
9380	REMOVAL OF IRRELEVANCE IN PHASE-MODULATED DIGITAL CARRIER-SIGNALS			NP	PAT-Active	US	14/133106	9325551	US-2015-0172083-A1		
9381	COLLABORATIVE RADIO RESOURCES ALLOCATIONS TO APPLICATIONS OF MOBILE UNITS			NP	PAT-Active	US	12/966868	8478320	US-2012-0149310-A1		
9382	COLLABORATIVE RADIO RESOURCES ALLOCATIONS TO APPLICATIONS OF MOBILE UNITS			CNT	PAT-Active	US	13/908673	9204446	US-2013-0258984-A1		
9383	COLLABORATIVE RADIO RESOURCES ALLOCATIONS TO APPLICATIONS OF MOBILE UNITS			CNT	PAT-Active	US	14/927460	10149299	US-2016-0050656-A1		
9384	WIRELESS INTERFERENCE MITIGATION			EPT	APP-Pending	EP	138598032		2926483		
9385	WIRELESS INTERFERENCE MITIGATION			PCT	PAT-Active	US	14/440701	9680669	US-2015-0256279-A1		
9386	WIRELESS INTERFERENCE MITIGATION			PCT	PAT-Active	CN	2013800576344	ZL2013800 576344	104769870		
9387	WIRELESS INTERFERENCE MITIGATION			PCT	PAT-Active	US	14/440335	9654313	US-2015-0303958-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9388	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800631534	ZL2013800631534	105027664	Yes	
9389	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	138702428	2941934	2941934	Yes	
9390	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	138702428	2941934	2941934	Yes	
9391	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	138702428	2941934	2941934	Yes	
9392	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	161050170		1217074	Yes	
9393	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	US	14/440338		US-2015-0282026-A1	Yes	
9394	INFORMATION SIGNALLING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138600994		2926484		
9395	INFORMATION SIGNALLING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/440337	10003367	US-2015-0295695-A1		
9396	INFORMATION SIGNALLING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/956039	10439664	US-2018-0316371-A1		
9397	USE OF SCHEDULING REQUEST AND RANDOM ACCESS FOR LTE ADVANCED NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800561156	ZL2013800561156	104756581		
9398	USE OF SCHEDULING REQUEST AND RANDOM ACCESS FOR LTE ADVANCED NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/440430	9621209	US-2015-0289251-A1		
9399	WIRELESS INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/646524	9723508	US-2015-0289280-A1		
9400	NOTIFICATION OF RECEIVER CAPABILITIES	[redacted]	[redacted]	PCT	PAT-Active	CN	201380057626X	ZL201380057626X	104769869		
9401	NOTIFICATION OF RECEIVER CAPABILITIES	[redacted]	[redacted]	PCT	APP-Pending	US	14/440863		US-2015-0304063-A1		
9402	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800561442	ZL2013800561442	104756431	Yes	
9403	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	CN	2017109604157		107682099	Yes	
9404	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	FPD	APP-Pending	HK	181094595		1250093	Yes	
9405	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	138609334		2926489	Yes	
9406	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9407	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9408	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9409	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9410	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-545520		2016-502822	Yes	
9411	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-155608	6579713	2017-229083	Yes	
9412	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	14/440860	10164672	US-2015-0304087-A1	Yes	
9413	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/683549	10218401	US-2017-0353204-A1	Yes	
9414	DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	2013800579588	ZL2013800579588	104770048		
9415	DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/440429	9674847	US-2015-0289282-A1		
9416	MEASUREMENT REPORTING IN D2D COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	138604574		2926588		
9417	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9418	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9419	MEASUREMENT REPORTING IN D2D COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/440444	9763128	US-2015-0271859-A1		
9420	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/580243	9736852	US-2016-0183272-A1		
9421	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	CNT	APP-Pending	US	15/659674		US-2018-0070366-A1		
9422	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	2015107836131	ZL2015107836131	105722185		
9423	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	DIV	APP-Pending	CN	201711129283X		108064068		
9424	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	APP-Pending	EP	151952660		3041295		
9425	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPD	APP-Pending	EP	172010456		3306986		
9426	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	TW	104138137	I578834	201632016		
9427	COMMUNICATION TERMINAL AND METHOD FOR DETERMINING A POWER SCALING FACTOR	[redacted]	[redacted]	NP	PAT-Active	US	14/556863	9655059	US-2015-0208362-A1		
9428	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/575733	9413583	US-2016-0182162-A1		
9429	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	CNT	PAT-Active	US	15/231379	9954626	US-2016-0352439-A1		
9430	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	2015107652585	ZL2015107652585	105721386		
9431	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	EPA	PAT-Active	EP	151947926	3035625	3035625		
9432	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	EPD	APP-Pending	EP	181500554		3334114		
9433	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	EPA	PAT-Active	DE	151947926	########	3035625		
9434	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	EPA	PAT-Active	FR	151947926	3035625	3035625		
9435	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	EPA	PAT-Active	GB	151947926	3035625	3035625		
9436	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	104137529	I590627	201640869		
9437	METHODS AND DEVICES FOR DETERMINING INTERMODULATION DISTORTIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/935416	9608743	US-2016-0134311-A1		
9438	METHODS AND DEVICES FOR DETERMINING INTERMODULATION DISTORTIONS	[redacted]	[redacted]	NP	PAT-Active	CN	2015106449146	ZL2015106449146	105591665		
9439	METHODS AND DEVICES FOR DETERMINING INTERMODULATION DISTORTIONS	[redacted]	[redacted]	NP	APP-Pending	IN	4872/CHE/2015		4872/CHE/2015		
9440	TRANSCEIVER DEVICE AND A METHOD FOR GENERATING A COMPENSATION SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/550277	9680671	US-2015-0180685-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9481	A TRANSCEIVER DEVICE AND A METHOD FOR GENERATINGA COMPENSATION SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201410858431.1	ZL2014108584311	104796170		
9482	A TRANSCEIVER DEVICE AND A METHOD FOR GENERATING A COMPENSATION SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102013147978		102013114797		
9483	METHOD BASEBAND SIGNAL GENERATOR AND COMPUTER PROGRAM FOR PROVIDING A BASEBAND SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/550612	9363117	US-2015-0180690-A1		
9484	METHOD BASEBAND SIGNAL GENERATOR AND COMPUTER PROGRAM FOR PROVIDING A BASEBAND SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201410858272.5	ZL2014108582725	104735805		
9485	METHOD BASEBAND SIGNAL GENERATOR AND COMPUTER PROGRAM FOR PROVIDING A BASEBAND SIGNAL	[redacted]	[redacted]	NP	PAT-Active	DE	102013134833.8	##########			
9486	ACCESS POINT POSITION DETERMINATION BY MOBILE DEVICES CROWD SOURCING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480074293.6	ZL2014800742936	105934685		
9487	ACCESS POINT POSITION DETERMINATION BY MOBILE DEVICES CROWD SOURCING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025390		201647025390		
9488	ACCESS POINT POSITION DETERMINATION BY MOBILE DEVICES CROWD SOURCING	[redacted]	[redacted]	PCT	PAT-Active	US	15/113481	10008725	US-2017-0034657-A1		
9489	COMMUNICATION DEVICE AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/566454	9595988	US-2016-0173154-A1		
9490	COMMUNICATION DEVICE AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201510761357.8	ZL2015107613578	105703799		
9491	COMMUNICATION DEVICE AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	5622/CHE/2015	613575	5622/CHE/2015		
9492	COMMUNICATION TERMINAL AND A METHOD FOR REPORTING A CHANNEL QUALITY	[redacted]	[redacted]	NP	PAT-Active	US	14/593024	9398575	US-2015-0230237-A1		
9493	COMMUNICATION TERMINAL AND A METHOD FOR REPORTING A CHANNEL QUALITY	[redacted]	[redacted]	NP	PAT-Active	DE	102014016599.5	##########	102014016599		
9494	AN APPARATUS FOR PROVIDING A CONTROL SIGNAL FOR A VARIABLE IMPEDANCE MATCHING CIRCUIT AND A METHOD THEREOF	[redacted]	[redacted]	NP	APP-Pending	CN	201510802321867		105721019		
9495	APPARATUS FOR PROVIDING A CONTROL SIGNAL FOR A VARIABLE IMPEDANCE MATCHING CIRCUIT AND A METHOD THEREOF	[redacted]	[redacted]	DIV	APP-Pending	US	16/119207		US-2018-0375538-A1		
9496	AN APPARATUS FOR PROVIDING A CONTROL SIGNAL FOR A VARIABLE IMPEDANCE MATCHING CIRCUIT AND A METHOD THEREOF	[redacted]	[redacted]	NP	APP-Pending	DE	102014119259.1		102014119259		
9497	AN APPARATUS FOR PROVIDING A CONTROL SIGNAL FOR A VARIABLE IMPEDANCE MATCHING CIRCUIT AND A METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	TW	104137719	I593230	201631887		
9498	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	NP	PAT-Active	US	14/594235	9864087	US-2015-0234077-A1		
9499	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	CNT	PAT-Active	US	15/251092	10203435	US-2016-0370487-A1		
9500	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	CNT	APP-Pending	US	16/259349		US-2019-0219720-A1		
9501	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	NP	PAT-Active	CN	201510018488.5	ZL2015100184885	104852774		
9502	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	DIV	PAT-Active	CN	201610824222.4	ZL2016108242224	106374959		
9503	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	DIV	APP-Pending	CN	201811362191.X		109381128		
9504	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	NP	PAT-Active	DE	102014015067.1	##########	102014101906		
9505	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
9506	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	NP	PAT-Active	TW	104100722	I578726	201547221		
9507	CIRCUIT TRANSMISSION SYSTEM AND METHOD FOR DETERMINING PROXIMITY OF AN OBJECT	[redacted]	[redacted]	DIV	PAT-Active	TW	105130018	I646787	201701602		
9508	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING POWER CONSUMPTION OF A COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	14/530893	9693312	US-2016-0127998-A1		
9509	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING POWER CONSUMPTION OF A COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	201510640098.1	ZL2015106400981	105578574		
9510	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING POWER CONSUMPTION OF A COMMUNICATION TERMINAL	[redacted]	[redacted]	EPA	APP-Pending	EP	15188757.8		3015449		
9511	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING POWER CONSUMPTION OF A COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	APP-Pending	IN	4873/CHE/2015		4871/CHE/2015		
9512	METHOD AND RELATED MOBILE DEVICE FOR DETERMINING A REFERENCE SIGNAL RECEIVED POWER	[redacted]	[redacted]	NP	PAT-Active	US	14/661552	9769687	US-2015-0281988-A1		
9513	METHOD AND RELATED MOBILE DEVICE FOR DETERMINING A REFERENCE SIGNAL RECEIVED POWER	[redacted]	[redacted]	NP	PAT-Active	DE	102014104660.6	##########	102014104090		
9514	METHOD AND RELATED MOBILE DEVICE FOR CELL SEARCHING WITH LOW MEMORY REQUIREMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/661439	9414304	US-2015-0282095-A1		
9515	METHOD AND RELATED MOBILE DEVICE FOR CELL SEARCHING WITH LOW MEMORY REQUIREMENT	[redacted]	[redacted]	NP	APP-Pending	DE	102014104090.2		102014104090		
9516	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480009710.8	ZL2014800097108	105075334		
9517	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	FPR	APP-Pending	HK	16105113.5	997103	1217257		
9518	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7023285	10-1718273	10-2015-0113096		
9519	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/142594	9572047	US-2015-0189518-A1		
9520	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480063808.7	ZL2014800638087	105765879		
9521	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	FPR	APP-Closed	HK	16113098.9	638082	1224831		
9522	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014028	10-1779311	10-2016-0078427		
9523	HARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/141265	9331758	US-2014-0293842-A1	Yes	
9524	TIMING SYNCHRONIZATION IN DISCOVERY SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	14/142572	9338062	US-2014-0293988-A1		
9525	TIMING SYNCHRONIZATION IN DISCOVERY SIGNALS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480001018.8	ZL2014800010188	105027525		
9526	TIMING SYNCHRONIZATION IN DISCOVERY SIGNALS	[redacted]	[redacted]	FPR	APP-Closed	HK	16104952.0	106188	1217063		
9527	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/141220	9380590	US-2014-0293890-A1		
9528	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	147763288	2979413	2979413		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9489	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	147763288	2979413	2979413		
9490	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	147763288	2979413	2979413		
9491	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	147763288	#########	2979413		
9492	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	147763288	2979413	2979413		
9493	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	147763288	2979413	2979413		
9494	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	147763288	2979413	2979413		
9495	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	147763288	2979413	2979413		
9496	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	147763288	2979413	2979413		
9497	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	147763288	2979413	2979413		
9498	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	147763288	2979413	2979413		
9499	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	147763288	2979413	2979413		
9500	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	147763288	2979413	2979413		
9501	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	PAT-Active	CN	201480011258X	ZL201480011258X	105027469		
9502	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	FPR	APP-Pending	HK	16104927 2		1216952		
9503	USER EQUIPMENT AND METHODS FOR CELL RESELECTION USING SCALED TIME-TO-TRIGGER AND A3 OFFSET VALUES	[redacted]	[redacted]	CNT	PAT-Active	US	14/845019	9674757	US-2016-0066243-A1		
9504	PATTERN INDICATOR SIGNAL FOR NEW DMRS PATTERN	[redacted]	[redacted]	NP	PAT-Active	US	14/137500	9258104	US-2014-0302887-A1		
9505	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	NP	PAT-Active	US	14/141876	9445338	US-2014-0301290-A1	Yes	
9506	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7024073	10-1784760	10-2015-0119889	Yes	
9507	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800113239		105191370	Yes	
9508	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	16106744 8		1218826	Yes	
9509	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7024056	10-1831253	10-2015-0115003	Yes	
9510	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	NP	PAT-Active	TW	103112550	I596973	201503742	Yes	
9511	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	DIV	PAT-Active	TW	106118697	I632822	201811074	Yes	
9512	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	NP	PAT-Active	US	14/141222	9781556	US-2014-0301289-A1	Yes	
9513	EMERGENCY MOBILE ORIGINATED LOCATION REPORT	[redacted]	[redacted]	EPA	PAT-Active	EP	141941344	2894882	2894882		
9514	EMERGENCY MOBILE ORIGINATED LOCATION REPORT	[redacted]	[redacted]	EPA	PAT-Active	DE	141941344	2894882	2894882		
9515	EMERGENCY MOBILE ORIGINATED LOCATION REPORT	[redacted]	[redacted]	EPA	PAT-Active	NL	141941344	2894882	2894882		
9516	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MM-WAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	APP-Pending	CN	201480061891X		105900487	Yes	
9517	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MM-WAVE CAP ABLE SMALL CELL	[redacted]	[redacted]	EPT	APP-Pending	EP	148694482		3081037	Yes	
9518	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MM-WAVE CAPABLE SMALL CELL	[redacted]	[redacted]	FPR	APP-Pending	HK	161130539		1224877	Yes	
9519	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MMWAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	APP-Pending	IN	201647014939		201647014939	Yes	
9520	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MMWAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7012405	10-1791806	10-2016-0071426	Yes	
9521	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MMWAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	PAT-Active	US	15/026803	10257761	US-2016-0249269-A1	Yes	
9522	METHOD FOR CERTIFICATION OF RECONFIGURABLE RADIO EQUIPMENT WHEN RECONFIGURATION SOFTWARE DEVELOPED BY THIRD PARTY	[redacted]	[redacted]	NP	PAT-Active	US	14/139282	9354910	US-2015-0178112-A1		
9523	METHOD FOR CERTIFICATION OF RECONFIGURABLE RADIO EQUIPMENT WHEN RECONFIGURATION SOFTWARE DEVELOPED BY THIRD PARTY	[redacted]	[redacted]	NP	PAT-Active	CN	2014108582157	ZL201410858215 7	104731637		
9524	METHOD FOR CERTIFICATION OF RECONFIGURABLE RADIO EQUIPMENT WHEN RECONFIGURATION SOFTWARE DEVELOPED BY THIRD PARTY	[redacted]	[redacted]	EPA	APP-Pending	EP	141936609		2887217		
9525	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9526	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
9527	APPARATUS AND METHOD FOR SINGLE-TONE DEVICE DISCOVERY IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/142021	9647818	US-2014-0185550-A1		
9528	APPARATUS AND METHOD FOR SINGLE-TONE DEVICE DISCOVERY IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	15/589255		US-2017-0373815-A1		
9529	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	NP	PAT-Active	US	14/132974	9294714	US-2014-0321343-A1	Yes	
9530	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	CNT	PAT-Active	US	15/076500	10420065	US-2017-0055239-A1	Yes	
9531	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
9532	ENODEB USER EQUIPMENT AND METHOD FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES (as Amended)	[redacted]	[redacted]	EPT	PAT-Active	EP	147887418	2989842	2989842	Yes	
9533	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	EPT	PAT-Active	DE	147887418	#########	2989842	Yes	
9534	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	EPT	PAT-Active	FR	147887418	2989842	2989842	Yes	
9535	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	EPT	PAT-Active	GB	147887418	2989842	2989842	Yes	
9536	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	EPT	PAT-Active	NL	147887418	2989842	2989842	Yes	
9537	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	NP	PAT-Active	US	14/141034	9621845	US-2014-0325078-A1	Yes	
9538	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	EPT	APP-Pending	EP	147881924		2989772	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9539	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Pending	IN	4993/CHENP/2015		4993/CHENP/2015	Yes	
9540	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7028489	10-1825073	10-2015-0121390	Yes	
9541	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7004455		10-2018-0019770	Yes	
9542	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	NP	PAT-Active	TW	103113878	I589159	201513672	Yes	
9543	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	DIV	APP-Pending	TW	106111401		201728165	Yes	
9544	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201580065797X		106797570		
9545	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	17109092.9		1235602		
9546	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004218		201747004218		
9547	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-516327	6419954	2017-529802		
9548	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/141067	9320063	US-2015-0003326-A1	Yes	
9549	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	14/990054	9750017	US-2016-0119967-A1	Yes	
9550	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/688359	10420100	US-2017-0359823-A1	Yes	
9551	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	16/536254			Yes	
9552	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	14817214.1	3014909	3014909	Yes	
9553	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	14817214.1	3014909	3014909	Yes	
9554	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	14817214.1	3014909	3014909	Yes	
9555	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	14817214.1	3014909	3014909	Yes	
9556	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	14817214.1	3014909	3014909	Yes	
9557	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	14817214.1	3014909	3014909	Yes	
9558	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	14817214.1	3014909	3014909	Yes	
9559	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	14817214.1	3014909	3014909	Yes	
9560	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	14817214.1	3014909	3014909	Yes	
9561	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	14817214.1	3014909	3014909	Yes	
9562	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	14817214.1	3014909	3014909	Yes	
9563	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	14817214.1	3014909	3014909	Yes	
9564	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	14817214.1	3014909	3014909	Yes	
9565	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	14817214.1	3014909	3014909	Yes	
9566	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	7142/CHENP/2015		7142/CHENP/2015	Yes	
9567	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-521919	6409871	2016-525305	Yes	
9568	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7033288	10-1855426	10-2016-0093023	Yes	
9569	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7012372		10-2018-0045230	Yes	
9570	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103120032	I552624	201517660	Yes	
9571	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	105119738	I603643	201635825	Yes	
9572	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	NP	PAT-Active	US	14/108121	9307192	US-2014-0320587-A1	Yes	
9573	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	[redacted]	[redacted]	CNT	PAT-Active	US	15/083897	9743380	US-2016-0227166-A1	Yes	
9574	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	[redacted]	[redacted]	CNT	PAT-Active	US	15/682168	10225817	US-2017-0374647-A1	Yes	
9575	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	EPT	APP-Pending	EP	14788589.1		2989790	Yes	
9576	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	EP	16168880.9	3094063	3094063	Yes	
9577	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	AT	16168880.9	3094063	3094063	Yes	
9578	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	BE	16168880.9	3094063	3094063	Yes	
9579	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	CH	16168880.9	3094063	3094063	Yes	
9580	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	DE	16168880.9	3094063	3094063	Yes	
9581	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	EE	16168880.9	3094063	3094063	Yes	
9582	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	ES	16168880.9	3094063	3094063	Yes	
9583	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	FR	16168880.9	3094063	3094063	Yes	
9584	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	GB	16168880.9	3094063	3094063	Yes	
9585	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	GR	16168880.9	3094063	3094063	Yes	
9586	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	HU	16168880.9	3094063	3094063	Yes	
9587	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	IE	16168880.9	3094063	3094063	Yes	
9588	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	NL	16168880.9	3094063	3094063	Yes	
9589	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	ETD	PAT-Active	SK	16168880.9	3094063	3094063	Yes	
9590	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	NP	PAT-Active	TW	105113898	I559776	201607480	Yes	
9591	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	[redacted]	[redacted]	DIV	PAT-Active	TW	105115759	I578796	201631957	Yes	
9592	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	[redacted]	[redacted]	DIV	PAT-Active	TW	106107708	I635751	201720140	Yes	
9593	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/132515	9325937	US-2014-0323128-A1	Yes	
9594	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	[redacted]	[redacted]	NP	PAT-Active	US	14/107400	9307539	US-2014-0323133-A1		
9595	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480031737.9	ZL2014800 372579	105052092		
9596	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	[redacted]	[redacted]	EPT	APP-Pending	EP	14788674.1		2989827		
9597	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	[redacted]	[redacted]	FPR	APP-Pending	HK	16105109.9		1217145		
9598	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201480017266.5	ZL2014800 172665	105324952	Yes	
9599	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	FPR	PAT-Active	HK	16108620.3	1220858	1220858	Yes	
9600	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	[redacted]	[redacted]	NP	PAT-Active	US	14/140823	9414306	US-2014-0371360-A1		
9601	APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/141985	9288434	US-2014-0321272-A1		
9602	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	NP	PAT-Active	US	14/144856	9357474	US-2015-0189575-A1		
9603	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	EP	14194542.8	2903350	2903350		
9604	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	AT	14194542.8	2903350	2903350		
9605	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	BE	14194542.8	2903350	2903350		
9606	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	CH	14194542.8	2903350	2903350		
9607	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	DE	14194542.8	2903350	2903350		
9608	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	EE	14194542.8	2903350	2903350		
9609	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	ES	14194542.8	2903350	2903350		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
9610	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	FR	141945428	2903350	2903350		
9611	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	GB	141945428	2903350	2903350		
9612	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	GR	141945428	2903350	2903350		
9613	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	HU	141945428	2903350	2903350		
9614	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	IE	141945428	2903350	2903350		
9615	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	NL	141945428	2903350	2903350		
9616	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	EPA	PAT-Active	SK	141945428	2903350	2903350		
9617	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	NP	PAT-Active	US	14/108648	9071297	US-2014-0355705-A1	Yes	
9618	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/739815	9553643	US-2016-0006493-A1	Yes	
9619	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	CNT	PAT-Active	US	15/413182	10312981	US-2017-0272136-A1	Yes	
9620	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800232717	ZL2014800 232717	105144647	Yes	
9621	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	PCD	APP-Pending	CN	201710494925X		107302390	Yes	
9622	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	FPD	APP-Pending	HK	181036765		1244119	Yes	
9623	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	EP	148044126	3005636	3005636	Yes	
9624	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	AT	148044126	3005636	3005636	Yes	
9625	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	BE	148044126	3005636	3005636	Yes	
9626	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	CH	148044126	3005636	3005636	Yes	
9627	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	ETD	APP-Pending	EP	171821358		3267720	Yes	
9628	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	DE	148044126	3005636	3005636	Yes	
9629	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	EE	148044126	3005636	3005636	Yes	
9630	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	ES	148044126	3005636	3005636	Yes	
9631	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	FR	148044126	3005636	3005636	Yes	
9632	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	GB	148044126	3005636	3005636	Yes	
9633	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	GR	148044126	3005636	3005636	Yes	
9634	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	HU	148044126	3005636	3005636	Yes	
9635	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	IE	148044126	3005636	3005636	Yes	
9636	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	NL	148044126	3005636	3005636	Yes	
9637	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	EPT	PAT-Active	SK	148044126	3005636	3005636	Yes	
9638	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	FPR	APP-Pending	HK	161059769		1218029	Yes	
9639	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	NP	PAT-Active	US	14/141843	9559761	US-2014-0357228-A1		
9640	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800245844	ZL2014800 245844	105165042		
9641	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	EPT	APP-Pending	EP	148041247		3005758		
9642	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	FPR	APP-Pending	HK	161057798		1217857		
9643	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	NP	PAT-Active	US	14/136554	9794870	US-2015-0004980-A1		
9644	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	NP	PAT-Active	CN	2014102950812	ZL2014102 950812	104254067		
9645	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	EP	141716480	2827649	2827649		
9646	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	AT	141716480	2827649	2827649		
9647	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	BE	141716480	2827649	2827649		
9648	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	CH	141716480	2827649	2827649		
9649	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	DE	141716480	#########	2827649		
9650	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	EE	141716480	2827649	2827649		
9651	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	ES	141716480	2827649	2827649		
9652	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	FR	141716480	2827649	2827649		
9653	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	GB	141716480	2827649	2827649		
9654	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	GR	141716480	2827649	2827649		
9655	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	HU	141716480	2827649	2827649		
9656	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	IE	141716480	2827649	2827649		
9657	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	NL	141716480	2827649	2827649		
9658	USER EQUIPMENT AND METHOD FOR USER EQUIPMENT FEEDBACK OF FLOW-TO-RAT MAPPING PREFERENCES	[redacted]	[redacted]	EPA	PAT-Active	SK	141716480	2827649	2827649		
9659	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	NP	PAT-Active	US	14/140932	9191178	US-2014-0301288-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10497	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	NL	14835165	3031150	3031150		
10498	USER EQUIPMENT REALLOCATION BETWEEN NODES	[redacted]	[redacted]	NP	PAT-Active	US	14/332661	9357513	US-2015-0043404-A1		
10499	USER EQUIPMENT REALLOCATION BETWEEN NODES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039023	ZL2014800 390331	105379366		
10500	USER EQUIPMENT REALLOCATION BETWEEN NODES	[redacted]	[redacted]	EPR	APP-Pending	HK	16130047		1222075		
10501	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/454635	9608736	US-2015-0043398-A1		
10502	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039252	ZL2014800 392533	105393632		
10503	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	14834581		3031287		
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
10508	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	16110189		1222084		
10509	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/318957	9788186	US-2015-0043448-A1		
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
10511	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	APP-Pending	BR	122017000902-8		122017000902-8		
10512	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/186779	10321294	US-2016-0302251-A1		
10513	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	201610581348		106060766		
10514	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	14835021	3031272	3031272		
10515	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	14835021	3031272	3031272		
10516	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	14835021	3031272	3031272		
10517	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	14835021	3031272	3031272		
10518	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EP	1716544 03	3209039	3209039		
10519	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	AT	1716544 03	3209039	3209039		
10520	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	BE	1716544 03	3209039	3209039		
10521	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	CH	1716544 03	3209039	3209039		
10522	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	DE	1716544 03	3209039	3209039		
10523	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	14835021	3031272	3031272		
10524	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	EE	1716544 03	3209039	3209039		
10525	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	ES	1716544 03	3209039	3209039		
10526	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	FR	1716544 03	3209039	3209039		
10527	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GB	1716544 03	3209039	3209039		
10528	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	GR	1716544 03	3209039	3209039		
10529	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	HU	1716544 03	3209039	3209039		
10530	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	IE	1716544 03	3209039	3209039		
10531	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	NL	1716544 03	3209039	3209039		
10532	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	PAT-Active	SK	1716544 03	3209039	3209039		
10533	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	14835021	3031272	3031272		
10534	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	14835021	3031272	3031272		
10535	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	14835021	3031272	3031272		
10536	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	14835021	3031272	3031272		
10537	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	14835021	3031272	3031272		
10538	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	14835021	3031272	3031272		
10539	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	14835021	3031272	3031272		
10540	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	14835021	3031272	3031272		
10541	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	14835021	3031272	3031272		
10542	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	17301484		1228158		
10543	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	7808/CHENP/2015		7808/CHENP/2015		
10544	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-525843	6211698	2016-525808		
10545	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-133179	6316880	2016-174429		
10546	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7000580	10-1819398	10-2016-0018779		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10547	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7020017	10-1819407	10-2016-0091453		
10548	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/318008	9681354	US-2015-0043449-A1		
10549	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	14834152	3031284	3031284		
10550	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	14834152	3031284	3031284		
10551	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	14834152	3031284	3031284		
10552	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	14834152	3031284	3031284		
10553	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	14834152	3031284	3031284		
10554	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	14834152	3031284	3031284		
10555	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	14834152	3031284	3031284		
10556	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	14834152	3031284	3031284		
10557	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	14834152	3031284	3031284		
10558	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	14834152	3031284	3031284		
10559	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	14834152	3031284	3031284		
10560	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	14834152	3031284	3031284		
10561	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	14834152	3031284	3031284		
10562	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	14834152	3031284	3031284		
10563	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	NP	PAT-Active	US	14/318085	9564958	US-2015-0043403-A1	Yes	
10564	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480038449.5	ZL2014800364495	105359569	Yes	
10565	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	EPT	PAT-Active	EP	14833927	3030950	3030950	Yes	
10566	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	EPT	PAT-Active	DE	14833927	[redacted]	3030950	Yes	
10567	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	EPT	PAT-Active	FR	14833927	3030950	3030950	Yes	
10568	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	EPT	PAT-Active	GB	14833927	3030950	3030950	Yes	
10569	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	EPT	PAT-Active	NL	14833927	3030950	3030950	Yes	
10570	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	FPR	PAT-Active	HK	16108964	1221525	1221525	Yes	
10571	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-533462	6168508	2016-527848	Yes	
10572	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7000316	10-1743590	10-2016-0021188	Yes	
10573	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7013997	10-1862527	10-2017-0066182	Yes	
10574	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	NP	PAT-Active	US	14/280363	9374827	US-2015-0334717-A1		
10575	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018827.8		106165467		
10576	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	FPR	APP-Pending	HK	17102891.7		1229595		
10577	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034277		201647034277		
10578	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-507678	6374095	2017-520200		
10579	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7028525	10-1804719	10-2016-0132980		
10580	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	NP	PAT-Active	US	14/286149	9560558	US-2015-0334610-A1		
10581	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018861.7		106233779		
10582	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	17103105.7		1229805		
10583	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034618		201647034618		
10584	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-566251	6339237	2017-517955		
10585	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7028384	10-1863718	10-2016-0133519		
10586	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/293240	9615260	US-2015-0350918-A1		
10587	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580022430.5		106233778		
10588	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	17103545.5		1229994		
10589	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036290		201647036290		
10590	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7030148	10-1853577	10-2016-0138587		
10591	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	NP	PAT-Active	US	14/309477	9485664	US-2015-0373552-A1		
10592	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580025732.9		106465259		
10593	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	17107041.5		1233815		
10594	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036856		201647036856		
10595	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-572276	6483732	2017-517982		
10596	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7031494	10-1858381	10-2016-0144456		
10597	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	NP	PAT-Active	US	14/318825	10015797	US-2015-0079956-A1		
10598	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	PCT	PAT-Active	CN	201480035517.2	ZL2014800395372	105359561		
10599	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	EP	14829110.7	3025533	3025533		
10600	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	AT	14829110.7	3025533	3025533		
10601	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	BE	14829110.7	3025533	3025533		
10602	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	CH	14829110.7	3025533	3025533		
10603	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	DE	14829110.7	3025533	3025533		
10604	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	EE	14829110.7	3025533	3025533		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10605	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	ES	148291107	3025533	3025533		
10606	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	FR	148291107	3025533	3025533		
10607	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	GB	148291107	3025533	3025533		
10608	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	GR	148291107	3025533	3025533		
10609	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	HU	148291107	3025533	3025533		
10610	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	IE	148291107	3025533	3025533		
10611	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	NL	148291107	3025533	3025533		
10612	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	EPT	PAT-Active	SK	148291107	3025533	3025533		
10613	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	FPR	APP-Pending	HK	16108858S		1221102		
10614	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-521924	6163677	2016-530756		
10615	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2015-7034544	10-1765408	10-2016-0005109		
10616	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	[redacted]	[redacted]	NP	PAT-Active	US	14/483620	9301083	US-2015-0195672-A1	Yes	
10617	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	[redacted]	[redacted]	CNT	PAT-Active	US	15/080120	9936026	US-2016-0191680-A1	Yes	
10618	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	[redacted]	[redacted]	CNT	PAT-Active	US	15/872863	10284656	US-2018-0205796-A1	Yes	
10619	TECHNIQUES FOR A DEVICE TRIGGER RECALL/REPLACE PROCEDURE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580002843S		105794311	Yes	
10620	TECHNIQUES FOR A DEVICE TRIGGER RECALL/REPLACE PROCEDURE	[redacted]	[redacted]	EPT	APP-Pending	EP	15733071S		3082868	Yes	
10621	TECHNIQUES FOR A DEVICE TRIGGER RECALL/REPLACE PROCEDURE	[redacted]	[redacted]	FPR	APP-Pending	HK	16113612S		1225555	Yes	
10622	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	14/318452	9480007	US-2015-0звэ919-A1	Yes	
10623	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY	[redacted]	[redacted]	PCT	PAT-Active	CN	201480036544	ZL2014800 365441	105340203	Yes	
10624	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY	[redacted]	[redacted]	FPR	APP-Pending	HK	16109587S		1221563	Yes	
10625	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/314856	9516541	US-2015-0078171-A1		
10626	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	148454549	3047672	3047672		
10627	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	148454549	3047672	3047672		
10628	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	148454549	3047672	3047672		
10629	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	148454549	3047672	3047672		
10630	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	148454549	3047672	3047672		
10631	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	148454549	3047672	3047672		
10632	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	148454549	3047672	3047672		
10633	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	148454549	3047672	3047672		
10634	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	148454549	3047672	3047672		
10635	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	148454549	3047672	3047672		
10636	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	148454549	3047672	3047672		
10637	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	148454549	3047672	3047672		
10638	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	148454549	3047672	3047672		
10639	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	148454549	3047672	3047672		
10640	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/279562	9258747	US-2015-0078335-A1		
10641	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480044658	ZL2014800 442698	105612786		
10642	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	148465529	3047679	3047679		
10643	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	148465529	3047679	3047679		
10644	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	148465529	3047679	3047679		
10645	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	148465529	3047679	3047679		
10646	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	148465529	3047679	3047679		
10647	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	148465529	3047679	3047679		
10648	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	148465529	3047679	3047679		
10649	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	148465529	3047679	3047679		
10650	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	148465529	3047679	3047679		
10651	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	148465529	3047679	3047679		

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10652	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	14846552S	3047679	3047679		
10653	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	14846552S	3047679	3047679		
10654	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	14846552S	3047679	3047679		
10655	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SE	14846552S	3047679	3047679		
10656	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16312385O		1224481		
10657	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/311938	9374151	US-2015-0043420-A1	Yes	
10658	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	CNT	PAT-Active	US	15/186832	10305574	US-2016-0359548-A1	Yes	
10659	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039337S	ZL2014800 393371	105379148	Yes	
10660	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCD	APP-Pending	CN	201610816127X		106411490	Yes	
10661	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	EP	14834710S	3031147	3031147	Yes	
10662	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	EP	17170538S	3229517	3229517	Yes	
10663	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	AT	17170538S	3229517	3229517	Yes	
10664	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	BE	17170538S	3229517	3229517	Yes	
10665	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	CH	17170538S	3229517	3229517	Yes	
10666	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	DE	17170538S	3229517	3229517	Yes	
10667	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	DE	14834710S	########	3031147		
10668	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	EE	17170538S	3229517	3229517	Yes	
10669	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	ES	17170538S	3229517	3229517	Yes	
10670	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	FR	17170538S	3229517	3229517	Yes	
10671	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	GB	17170538S	3229517	3229517	Yes	
10672	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	GR	17170538S	3229517	3229517	Yes	
10673	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	HU	17170538S	3229517	3229517	Yes	
10674	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	IE	17170538S	3229517	3229517	Yes	
10675	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	ETD	PAT-Active	NL	17170538S	3229517	3229517	Yes	
10676	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	FR	14834710S	3031147	3031147		
10677	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	GB	14834710S	3031147	3031147		
10678	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	EPT	PAT-Active	NL	14834710S	3031147	3031147		
10679	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	FPR	APP-Pending	HK	16109978S		1221828	Yes	
10680	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	FPD	APP-Pending	HK	17107083S		1233780	Yes	
10681	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/280795	9326122	US-2015-0045016-A1	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
10683	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/096504	9860732	US-2016-0337835-A1	Yes	
10684	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480038451S	ZL2014800 384616	105359478	Yes	
10685	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCD	APP-Pending	CN	201610751205Z		106162553	Yes	
10686	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	14834706S	3031185	3031185	Yes	
10687	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	ETD	APP-Pending	EP	16192991A		3133848	Yes	
10688	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	14834706S	########	3031185	Yes	
10689	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	FPD	APP-Pending	HK	17308367A		1234938	Yes	
10690	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	14834706S	3031185	3031185	Yes	
10691	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	14834706S	3031185	3031185	Yes	
10692	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	14834706S	3031185	3031185	Yes	
10693	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16108965S		1221564	Yes	
10694	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	FPD	APP-Pending	HK	17302414S		1229121	Yes	
10695	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	7807/CHENP/2015		7807/CHENP/2015	Yes	
10696	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-525844	6130069	2016-531473	Yes	
10697	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted] D	PCD	PAT-Active	JP	2016-164318	6349359	2016-197926	Yes	
10698	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7000399	10-1754837	10-2016-0018723	Yes	
10699	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted] D	PCD	PAT-Active	KR	10-2016-7024230	10-1925195	10-2016-0107354	Yes	
10700	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	103125302	I552641	201521505	Yes	
10701	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	105121810	I610594	201705818	Yes	
10702	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	DIV	PAT-Active	TW	106141135	I657711	201811103	Yes	
10703	EARLY TTE TERMINATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201480045721Z		105580414		
10704	EARLY TTE TERMINATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14845419Z		3047671		
10705	EARLY TTE TERMINATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16111508S		1223482		
10706	EARLY TTE TERMINATION	[redacted]	[redacted]	PCT	APP-Pending	US	14/912582		US-2016-0205601-A1		
10707	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	201480055867		105474719		
10708	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	[redacted]	[redacted]	EPT	APP-Pending	EP	14846321S		3047692		
10709	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	[redacted]	[redacted]	FPR	APP-Pending	HK	16110645O		1222502		
10710	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	[redacted]	[redacted]	PCT	APP-Pending	US	14/912587		US-2016-0205651-A1		
10711	DRX OPERATION FOR UL/DL RECONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	US	14/316188	9264933	US-2015-0078349-A1	Yes	
10712	DRX OPERATION FOR UL/DL RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	BR	1120150033132		1120150033132	Yes	
10713	DRX OPERATION FOR UL/DL RECONFIGURATION	[redacted]	[redacted]	PCD	APP-Pending	BR	1220160114392		1220160114392	Yes	

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[redacted]											
10715	DRX OPERATION FOR UL/DL RECONFIGURATION			CNT	PAT-Active	US	14/991696	9867078	US-2016-0128131-A1	Yes	
10716	DRX OPERATION FOR UL/DL RECONFIGURATION			CNT	PAT-Active	US	15/699425	10306509	US-2017-0332271-A1	Yes	
10717	DRX OPERATION FOR UL/DL RECONFIGURATION			EPT	APP-Pending	EP	14846265.0		3047580	Yes	
10718	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	EP	16170798.0	3101824	3101824	Yes	
[redacted]											
10719	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	AT	16170798.0	3101824	3101824	Yes	
10721	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	BE	16170798.0	3101824	3101824	Yes	
10722	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	CH	16170798.0	3101824	3101824	Yes	
10723	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	DE	16170798.0	3101824	3101824	Yes	
10724	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	EE	16170798.0	3101824	3101824	Yes	
10725	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	ES	16170798.0	3101824	3101824	Yes	
10726	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	FR	16170798.0	3101824	3101824	Yes	
10727	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	GB	16170798.0	3101824	3101824	Yes	
10728	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	GR	16170798.0	3101824	3101824	Yes	
10729	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	HU	16170798.0	3101824	3101824	Yes	
10730	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	IE	16170798.0	3101824	3101824	Yes	
10731	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	NL	16170798.0	3101824	3101824	Yes	
10732	DRX OPERATION FOR UL/DL RECONFIGURATION			ETD	PAT-Active	SK	16170798.0	3101824	3101824	Yes	
10733	DRX OPERATION FOR UL/DL RECONFIGURATION			EPR	APP-Pending	HK	17100636.1		1227188	Yes	
10734	DRX OPERATION FOR UL/DL RECONFIGURATION			PCT	APP-Pending	IN	201647002281		201647002281	Yes	
10735	DRX OPERATION FOR UL/DL RECONFIGURATION			PCD	APP-Pending	IN	201648018694		201648018694	Yes	
10736	DRX OPERATION FOR UL/DL RECONFIGURATION			PCD	APP-Pending	IN	201748039644		201748039644	Yes	
10737	DRX OPERATION FOR UL/DL RECONFIGURATION			PCT	APP-Closed	JP	2016-541968		2016-530840	Yes	
10738	DRX OPERATION FOR UL/DL RECONFIGURATION			PCD	PAT-Active	JP	2016-081269	6247333	2016-181908	Yes	
10739	DRX OPERATION FOR UL/DL RECONFIGURATION			PCD	PAT-Active	JP	2017-221364	6471918	2018-026883	Yes	
10740	DRX OPERATION FOR UL/DL RECONFIGURATION			PCT	PAT-Active	KR	10-2016-7001756	10-1737795	10-2016-0023821	Yes	
10741	DRX OPERATION FOR UL/DL RECONFIGURATION			PCD	PAT-Active	KR	10-2016-7011221	10-1905798	10-2016-0054815	Yes	
10742	DRX OPERATION FOR UL/DL RECONFIGURATION			DIV	PAT-Active	KR	10-2017-7033368	10-1922366	10-2017-0130624	Yes	
10743	DRX OPERATION FOR UL/DL RECONFIGURATION			NP	PAT-Active	TW	105130108	I603646	201528691	Yes	
10744	DRX OPERATION FOR UL/DL RECONFIGURATION			DIV	PAT-Active	TW	105133832	I600337	201632612	Yes	
10745	METHOD AND APPARATUS FOR DRX OPERATION FOR UL/DL RECONFIGURATION			DIV	PAT-Active	TW	106125580	I662856	201811095	Yes	
10746	HIGH-SPEED DIGITAL SIGNAL PROCESSING SYSTEMS			NP	PAT-Active	US	14/575939	9337878			
10747	HIGH-SPEED DIGITAL SIGNAL PROCESSING SYSTEMS			NP	PAT-Active	CN	201510796254.3	ZL2015 10779525.3	105720997		
10748	HIGH -SPEED DIGITAL SIGNAL PROCESSING SYSTEMS			NP	APP-Pending	IN	6045/CHE/2015		6045/CHE/2015		
10749	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM			NP	PAT-Active	US	14/861056	9748536	US-2016-0182026-A1		
10750	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM			NP	PAT-Active	CN	201510802519.6	ZL2015 10825396.8	105721091		
10751	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM			NP	APP-Pending	DE	102014119285.0		102014119285		
10752	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM			NP	APP-Pending	IN	6041/CHE/2015		6041/CHE/2015		
10753	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM			NP	PAT-Active	TW	104137720	I595251	201637385		
10754	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			PCT	PAT-Active	CN	201480030885.2	ZL2014800308852.6	105612769	Yes	
10755	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	EP	14817727.2	3014908	3014908	Yes	
10756	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	AT	14817727.2	3014908	3014908	Yes	
10757	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	BE	14817727.2	3014908	3014908	Yes	
10758	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	CH	14817727.2	3014908	3014908	Yes	
10759	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	DE	14817727.2	3014908	3014908	Yes	
10760	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	EE	14817727.2	3014908	3014908	Yes	
10761	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	ES	14817727.2	3014908	3014908	Yes	
10762	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	FR	14817727.2	3014908	3014908	Yes	
10763	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	GB	14817727.2	3014908	3014908	Yes	
10764	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	GR	14817727.2	3014908	3014908	Yes	
10765	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	HU	14817727.2	3014908	3014908	Yes	
10766	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	IE	14817727.2	3014908	3014908	Yes	
10767	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	NL	14817727.2	3014908	3014908	Yes	
10768	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPT	PAT-Active	SK	14817727.2	3014908	3014908	Yes	
10769	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			EPR	APP-Pending	HK	16111941.9		1223769	Yes	
10770	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK			PCT	PAT-Active	US	14/892158	10070433	US-2016-0135036-A1	Yes	
10771	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY			NP	PAT-Active	US	14/832533	9426836	US-2015-0029936-A1	Yes	
10772	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY			PCT	PAT-Active	CN	201480035496.4	ZL2014800354964	105359492	Yes	
10773	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY			EPT	APP-Pending	EP	14829675.1		3025484	Yes	
10774	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY			EPR	APP-Pending	HK	16108960.1		1221090	Yes	
10775	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY			PCT	PAT-Active	JP	2016-524393	6224239	2016-529775	Yes	
10776	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			NP	PAT-Active	US	14/451654	9388465	US-2015-0045043-A1	Yes	
10777	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			CNT	PAT-Active	US	15/088859	9918238	US-2016-0219445-A1	Yes	
10778	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			PCT	APP-Pending	CN	201480037319.0		105393574	Yes	
10779	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			EPT	APP-Pending	EP	14833746.2		3031229	Yes	
10780	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			EPR	APP-Pending	HK	16109977.0		1222284	Yes	
10781	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			PCT	PAT-Active	JP	2016-533397	6361040	2016-534617	Yes	
10782	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			PCD	APP-Pending	JP	2018-048630		2018-117380	Yes	
10783	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			PCT	PAT-Active	KR	10-2016-7000209	10-1774416	10-2016-0033686	Yes	
10784	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION			PCD	APP-Pending	KR	10-2017-7024217		10-2017-0102386	Yes	
10785	DELIVERY OF TARGETED MEDIA CONTENT			NP	PAT-Active	US	14/487349	9706443	US-2015-0081851-A1	Yes	
10786	DELIVERY OF TARGETED MEDIA CONTENT			CNT	PAT-Active	US	15/613785	10244434	US-2017-0272983-A1	Yes	
10787	DELIVERY OF TARGETED MEDIA CONTENT			PCT	PAT-Active	CN	201480045680.7	ZL2014800456807	105474672	Yes	
10788	DELIVERY OF TARGETED MEDIA CONTENT			PCD	APP-Pending	CN	201910548502.0		110290427	Yes	
10789	DELIVERY OF TARGETED MEDIA CONTENT			EPT	APP-Pending	EP	14846491.2		3047666	Yes	
10790	DELIVERY OF TARGETED MEDIA CONTENT			EPR	APP-Pending	HK	16110646.9		1222503	Yes	
10791	DELIVERY OF TARGETED MEDIA CONTENT			PCT	APP-Pending	IN	201647002283		201647002283	Yes	
10792	DELIVERY OF TARGETED MEDIA CONTENT			PCT	PAT-Active	JP	2016-542883	6250821	2016-536825	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10793	DELIVERY OF TARGETED MEDIA CONTENT	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-224602	6486741	2018-050332	Yes	
10794	DELIVERY OF TARGETED MEDIA CONTENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7003883	10-1787801	10-2016-0034339	Yes	
10795	DELIVERY OF TARGETED MEDIA CONTENT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7028741	10-1914405	10-2017-0118245	Yes	
10796	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/316180	9386478	US-2015-0078348-A1	Yes	
10797	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	CNT	PAT-Active	US	15/202264	10123231	US-2016-0315739-A1	Yes	
10798	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	CNT	APP-Pending	US	16/153584		US-2019-0053093-A1	Yes	
10799	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480045136.2	ZL2014800451362	105453456	Yes	
10800	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	EPT	PAT-Active	EP	14846425.8	3047581	3047581	Yes	
10801	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	EPT	PAT-Active	DE	14846425.8	88888888	3047581	Yes	
10802	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	EPT	PAT-Active	FR	14846425.8	3047581	3047581	Yes	
10803	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	EPT	PAT-Active	GB	14846425.8	3047581	3047581	Yes	
10804	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	EPT	PAT-Active	NL	14846425.8	3047581	3047581	Yes	
10805	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	16110486.2		1222461	Yes	
10806	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480045706.8	ZL2014800457068	105474682		
10807	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	14846265.8	3047674	3047674		
10808	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	14846265.8	3047674	3047674		
10809	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	14846265.8	3047674	3047674		
10810	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	14846265.8	3047674	3047674		
10811	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	14846265.8	3047674	3047674		
10812	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	14846265.8	3047674	3047674		
10813	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	14846265.8	3047674	3047674		
10814	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	14846265.8	3047674	3047674		
10815	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	14846265.8	3047674	3047674		
10816	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	14846265.8	3047674	3047674		
10817	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	14846265.8	3047674	3047674		
10818	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	14846265.8	3047674	3047674		
10819	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	14846265.8	3047674	3047674		
10820	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	14846265.8	3047674	3047674		
10821	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	16110647.8		1222757		
10822	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/317837	9462629	US-2015-0085646-A1		
10823	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480047693.8	ZL2014800476938	105519182		
10824	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	14848360.5	3050352	3050352		
10825	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	AT	14848360.5	3050352	3050352		
10826	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	BE	14848360.5	3050352	3050352		
10827	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	CH	14848360.5	3050352	3050352		
10828	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	14848360.5	3050352	3050352		
10829	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EE	14848360.5	3050352	3050352		
10830	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	ES	14848360.5	3050352	3050352		
10831	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	14848360.5	3050352	3050352		
10832	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	14848360.5	3050352	3050352		
10833	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GR	14848360.5	3050352	3050352		
10834	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	HU	14848360.5	3050352	3050352		
10835	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	IE	14848360.5	3050352	3050352		
10836	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	14848360.5	3050352	3050352		
10837	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	SK	14848360.5	3050352	3050352		
10838	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	16111231.8		1223219		
10839	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	14/316156	9504088	US-2015-0085764-A1		
10840	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	CN	201480046291.8		105474595		
10841	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	EPT	APP-Pending	EP	14847586.6		3050268		
10842	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	FPR	APP-Pending	HK	16110644.1		1222486		
10843	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	NP	PAT-Active	US	14/317384	9258773	US-2015-0087317-A1		
10844	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	CNT	PAT-Active	US	14/988245	9420627	US-2016-0128134-A1		
10845	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	PCT	PAT-Active	CN	201480047745.1	ZL2014800477451	105519228		
10846	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	EP	14847804.3	3064027	3064027		
10847	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	AT	14847804.3	3064027	3064027		
10848	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	BE	14847804.3	3064027	3064027		
10849	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	CH	14847804.3	3064027	3064027		
10850	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	DE	14847804.3	3064027	3064027		
10851	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	EE	14847804.3	3064027	3064027		
10852	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	ES	14847804.3	3064027	3064027		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10853	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	FR	148478043	3064027	3064027		
10854	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	GB	148478043	3064027	3064027		
10855	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	GR	148478043	3064027	3064027		
10856	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	HU	148478043	3064027	3064027		
10857	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	IE	148478043	3064027	3064027		
10858	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	NL	148478043	3064027	3064027		
10859	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	EPT	PAT-Active	SK	148478043	3064027	3064027		
10860	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	FPR	APP-Pending	HK	163117518		1223765		
10861	EMERGENCY CALL HANDLING	[redacted]	[redacted]	NP	PAT-Active	US	14/895469	9615234	US-2015-0111517-A1		
10862	EMERGENCY CALL HANDLING	[redacted]	[redacted]	CNT	PAT-Active	US	15/677775	10178236	US-2017-0208180-A1		
10863	EMERGENCY CALL HANDLING	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800506100		105532025		
10864	EMERGENCY CALL HANDLING	[redacted]	[redacted]	PCD	APP-Pending	CN	201711376602S		308462937		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
10866	EMERGENCY CALL HANDLING	[redacted]	[redacted]	EPT	APP-Pending	EP	14855359		3061275		
10867	EMERGENCY CALL HANDLING	[redacted]	[redacted]	ETD	APP-Pending	EP	17198869		3284034		
10868	EMERGENCY CALL HANDLING	[redacted]	[redacted]	FPR	APP-Pending	HK	163112338		1223221		
10869	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/317900	9560684	US-2015-0085667-A1		
10870	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480046251.1	ZL201480046251.1 462511	105493554		
10871	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	EP	148470339	3050348	3050348		
10872	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	DE	148470339	########	3050348		
10873	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	FR	148470339	3050348	3050348		
10874	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	GB	148470339	3050348	3050348		
10875	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	PAT-Active	NL	148470339	3050348	3050348		
10876	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	161110279		1222970		
10877	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/496152	9572185	US-2015-0085860-A1		
10878	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480046254.5	ZL201480046254.5 462545	105493555		
10879	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	14867564		3050350		
10880	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	161112309		1223218		
10881	HARQ TIMELINES FOR TDD-FDD CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	14/318143	9538565	US-2015-0085713-A1	Yes	
10882	HARQ TIMELINES FOR TDDFDD CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	IN	2016470025C9		2016470025C9	Yes	
10883	HARQ TIMELINES FOR TDDFDD CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-517472	6151445	2016-532342	Yes	
10884	HARQ TIMELINES FOR TDDFDD CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7003003	10-1775295	10-2016-0027987	Yes	
10885	HARQ TIMELINES FOR TDDFDD CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	EU	2016107020	2631671	2016107020	Yes	
10886	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	NP	PAT-Active	US	14/316315	9917786	US-2015-0381502-A1		
10887	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/880013	10333856	US-2018-0152389-A1		
10888	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580027202.8		106464604		
10889	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17107715O		1234232		
10890	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	EPT	PAT-Active	EP	158117697	3162010	3162010		
10891	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	EPT	PAT-Active	DE	158117697	########	3162010		
10892	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	EPT	PAT-Active	NL	158117697	3162010	3162010		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
10894	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-575562	6449347	2017-521940		
10895	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7033128	10-1857798	10-2016-0147003		
10896	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/464857	9668889	US-2016-0088648-A1		
10897	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580043873.3		106688193		
10898	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	1710345.14		1235923		
10899	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-508615		2017-535093		
10900	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201480051861.0		105557064		
10901	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	PCD	APP-Pending	CN	201910788549.6		110480539		
10902	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	EPT	APP-Pending	EP	14858386.9		3061315		
10903	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	FPR	APP-Pending	HK	161115075		1223480		
10904	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480051684.6	ZL201480051684.6 516846	105580403	Yes	
10905	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	FPR	APP-Pending	HK	161123823		1224479	Yes	
10906	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7007342	10-1802680	10-2016-0045131	Yes	
10907	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	NP	PAT-Active	US	14/316829	9615395	US-2015-0146615-A1		
10908	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480057697.4	ZL201480057697.4 576974	105659544		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10908	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	EP	14865094	3075116	3075116		
10910	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	DE	14865094	##########	3075116		
10911	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	FR	14865094	3075116	3075116		
10912	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	GB	14865094	3075116	3075116		
10913	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	EPT	PAT-Active	NL	14865094	3075116	3075116		
10918	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	FPR	APP-Pending	HK	16132713		1224462		
10915	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	NP	PAT-Active	US	14/316175	9572172	US-2015-0117332-A1		
10916	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800531568	ZL201480053164.8	105580477		
10917	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	EP	14858148	3064016	3064016		
10918	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	AT	14858148	3064016	3064016		
10919	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	BE	14858148	3064016	3064016		
10920	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	CH	14858148	3064016	3064016		
10921	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	DE	14858148	3064016	3064016		
10922	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	EE	14858148	3064016	3064016		
10923	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	ES	14858148	3064016	3064016		
10924	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	FR	14858148	3064016	3064016		
10925	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	GB	14858148	3064016	3064016		
10926	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	GR	14858148	3064016	3064016		
10927	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	HU	14858148	3064016	3064016		
10928	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	IE	14858148	3064016	3064016		
10929	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	NL	14858148	3064016	3064016		
10930	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	EPT	PAT-Active	SK	14858148	3064016	3064016		
10931	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	FPR	APP-Pending	HK	16112383		1224480		
10932	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/339716	9479915	US-2015-0111569-A1	Yes	
10933	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/272383	10104239	US-2017-0013486-A1	Yes	
10934	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800518644		105557015	Yes	
10935	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	14855350		3061286	Yes	
10936	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16111506		1223879	Yes	
10937	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800506488		105580287		
10938	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	14856440		3061199		
[redacted]											
10943	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	16112387		1224441		
10944	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUATION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201480079255X		106461748		
10945	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	14896117		3161594		
10946	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUATION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	17104181		1230726		
10947	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647037683		201647037688		
10948	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/301353		US-2017-0164143-A1		
10949	FEEDBACK CONTROL DURING PLANNED GAPS IN DATA STREAMS	[redacted]	[redacted]	NP	PAT-Active	US	14/315201	9590787	US-2015-0381332-A1		
10950	FEEDBACK CONTROL DURING PLANNED GAPS IN DATA STREAMS	[redacted]	[redacted]	PCT	PAT-Active	CN	2015800277643	ZL201580027764.2	106464394		
10951	FEEDBACK CONTROL DURING PLANNED GAPS IN DATA STREAMS	[redacted]	[redacted]	FPR	APP-Pending	HK	17107717		1234221		
10952	TCP TRAFFIC ADAPTATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/318397	9661657	US-2015-0146614-A1		
10953	TCP TRAFFIC ADAPTATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	2014800576953		105684396		
10954	TCP TRAFFIC ADAPTATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	14886134		3075132		
10955	TCP TRAFFIC ADAPTATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	16112838		1224838		
10956	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	NP	PAT-Active	US	14/317456	9730134	US-2015-0078264-A1		
10957	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	PCT	PAT-Active	CN	2014800456277	ZL201480045627.7	105453477		
10958	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	EPT	PAT-Active	EP	14846586	3047600	3047600		
10959	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	EPT	PAT-Active	AT	14846586	3047600	3047600		
10960	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	EPT	PAT-Active	BE	14846586	3047600	3047600		
10961	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	EPT	PAT-Active	CH	14846586	3047600	3047600		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
10962	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	EPT	PAT-Active	DE	148466865	3047600	3047600		
10963	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	EE	148466865	3047600	3047600		
10964	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	ES	148466865	3047600	3047600		
10965	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	FR	148466865	3047600	3047600		
10966	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	GB	148466865	3047600	3047600		
10967	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	GR	148466865	3047600	3047600		
10968	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	HU	148466865	3047600	3047600		
10969	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	IE	148466865	3047600	3047600		
10970	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	NL	148466865	3047600	3047600		
10971	GENERATION OF RANDOM ACCESS PREAMBLES			EPT	PAT-Active	SK	148466865	3047600	3047600		
10972	GENERATION OF RANDOM ACCESS PREAMBLES			FPR	APP-Pending	HK	163105875		1222464		
10973	THROUGHPUT CHARACTERIZATION			PCT	PAT-Active	CN	201480020019735	ZL2014800 201973	105132752		
10974	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	EP	147949820	2995022	2995022		
10975	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	AT	147949820	2995022	2995022		
10976	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	BE	147949820	2995022	2995022		
10977	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	CH	147949820	2995022	2995022		
10978	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	DE	147949820	2995022	2995022		
10979	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	EE	147949820	2995022	2995022		
10980	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	ES	147949820	2995022	2995022		
10981	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	FR	147949820	2995022	2995022		
10982	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	GB	147949820	2995022	2995022		
10983	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	GR	147949820	2995022	2995022		
10984	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	HU	147949820	2995022	2995022		
10985	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	IE	147949820	2995022	2995022		
10986	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	NL	147949820	2995022	2995022		
10987	THROUGHPUT CHARACTERIZATION			EPT	PAT-Active	SK	147949820	2995022	2995022		
10988	THROUGHPUT CHARACTERIZATION			FPR	APP-Pending	HK	161059714		1218193		
10989	THROUGHPUT CHARACTERIZATION			PCT	PAT-Active	US	14/779243	9800486	US-2016-0050133-A1		
10990	SYSTEM AND METHOD FOR GENERATING A DATA DEPENDENT CLOCK FOR A DAC IN A MODULATOR			NP	PAT-Active	US	14/303945	9157258	US-2015-0365113-A1		
10991	SYSTEM AND METHOD FOR GENERATING A DATA DEPENDENT CLOCK FOR A DAC IN A MODULATOR			NP	PAT-Active	CN	201510242935X	ZL2015102 425325	105305967		
10992	SYSTEM AND METHOD FOR GENERATING A DATA DEPENDENT CLOCK FOR A DAC IN A MODULATOR			NP	APP-Pending	DE	102015107198		102015107198		
10993	SYSTEM AND METHOD FOR GENERATING A DATA DEPENDENT CLOCK FOR A DAC IN A MODULATOR			NP	PAT-Active	TW	104114133	I565273	201613315		
10994	PHASE TRACKER FOR A PHASE LOCKED LOOP			NP	PAT-Active	US	14/894718	9584139	US-2016-0087639-A1		
10995	PHASE TRACKER FOR A PHASE LOCKED LOOP			NP	PAT-Active	CN	201510505612X	ZL2015105 056120	105450218		
10996	PHASE TRACKER FOR A PHASE LOCKED LOOP			EPA	PAT-Active	EP	151814787	3001567	3001567		
10997	PHASE TRACKER FOR A PHASE LOCKED LOOP			EPA	PAT-Active	DE	151814787	3001567	3001567		
10998	PHASE TRACKER FOR A PHASE LOCKED LOOP			EPA	PAT-Active	FR	151814787	3001567	3001567		
10999	PHASE TRACKER FOR A PHASE LOCKED LOOP			EPA	PAT-Active	GB	151814787	3001567	3001567		
11000	PHASE TRACKER FOR A PHASE LOCKED LOOP			EPA	PAT-Active	NL	151814787	3001567	3001567		
11001	PHASE TRACKER FOR A PHASE LOCKED LOOP			NP	APP-Pending	IN	4130/CHE/2015		4130/CHE/2015		
11002	PHASE TRACKER FOR A PHASE LOCKED LOOP			NP	PAT-Active	TW	104126884	I575882	201620256		
11003	HIGH-ORDER SIGMA DELTA FOR A DIVIDER-LESS DIGITAL PHASE-LOCKED LOOP			NP	PAT-Active	US	14/317435	9571107	US-2015-0381188-A1		
11004	A HIGH-ORDER SIGMA DELTA FOR A DIVIDER-LESS DIGITAL PHASE-LOCKED LOOP			NP	PAT-Active	CN	201510262513X	ZL2015102 625315	105306046		
11005	HIGH-ORDER SIGMA DELTA FOR A DIVIDER-LESS DIGITAL PHASE-LOCKED LOOP			NP	APP-Pending	DE	102015108075X		102015108075		
11006	DIGITAL-TO-TIME CONVERTER SPUR REDUCTION			NP	PAT-Active	US	14/318825	9768809	US-2015-0381214-A1		
11007	DIGITAL-TO-TIME CONVERTER SPUR REDUCTION			NP	PAT-Active	CN	201510272224X	ZL2015102 722242	105281730		
11008	DIGITAL-TO-TIME CONVERTER SPUR REDUCTION			NP	APP-Pending	DE	102015006783X		102015006783		
11009	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			NP	PAT-Active	US	14/570875	9525383	US-2016-0173032-A1		
11010	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO-ANALOG CONVERTER BASED POWER AMPLIFIER			NP	APP-Pending	CN	201510755645X		105703722		
11011	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			EPA	PAT-Active	EP	151943968	3035526	3035526		
11012	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			EPA	PAT-Active	DE	151943968	########	3035526		
11013	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			EPA	PAT-Active	FR	151943968	3035526	3035526		
11014	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			EPA	PAT-Active	GB	151943968	3035526	3035526		
11015	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER			EPA	PAT-Active	NL	151943968	3035526	3035526		
11016	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO-ANALOG CONVERTER BASED POWER AMPLIFIER			NP	APP-Pending	IN	5817/CHE/2015		5817/CHE/2015		
11017	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			PCT	APP-Pending	CN	201580014516X		106105317		
11018	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	EP	157822800	3135058	3135058		
11019	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	AT	157822800	3135058	3135058		
11020	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	BE	157822800	3135058	3135058		
11021	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	CH	157822800	3135058	3135058		
11022	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	DE	157822800	3135058	3135058		
11023	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	EE	157822800	3135058	3135058		
11024	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	ES	157822800	3135058	3135058		
11025	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	FR	157822800	3135058	3135058		
11026	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	GB	157822800	3135058	3135058		
11027	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	GR	157822800	3135058	3135058		
11028	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	HU	157822800	3135058	3135058		
11029	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	IE	157822800	3135058	3135058		
11030	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	NL	157822800	3135058	3135058		
11031	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			EPT	PAT-Active	SK	157822800	3135058	3135058		
11032	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			FPR	APP-Pending	HK	171024109		1229117		
11033	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			PCT	APP-Pending	IN	201647028945		201647028945		
11034	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION			PCT	PAT-Active	KR	10-2016-7026088	10-1874730	10-2016-0127048		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31035	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	PAT-Active	US	14/578773	9548746	US-2016-0182065-A1		
31036	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	PAT-Active	CN	201510809863271	ZL2015108 096327	105720971		
31037	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	IN	6056/CHE/2015		6056/CHE/2015		
31038	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	PAT-Active	TW	104138148	I587634	201640827		
31039	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580017132S	ZL2015800 171328	106134283		
31040	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	FPR	APP-Pending	HK	17103107S		1229606		
31041	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	NP	PAT-Active	TW	104106836	I565338	201807344		
31042	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	NP	PAT-Active	US	14/535651	9736765	US-2015-0312826-A1		
31043	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580017334Z		106165491		
31044	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	FPR	APP-Pending	HK	17102419S		1229118		
31045	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647028948		201647028948		
31046	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-559926	6321205	2017-516363		
31047	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7024473	10-1823321	10-2016-0117599		
31048	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT SWITCHED FALLBACK (CSFB) TO SHORTEN THE CALL SETUP TIME	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-556873	6278326	2017-513317	Yes	
31049	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT SWITCHED FALLBACK (CSFB) TO SHORTEN THE CALL SETUP TIME	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026807	10-1790586	10-2016-0127792	Yes	
31050	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	14/632291	10003486	US-2015-0312076-A1		
31051	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029073		201647029073		
31052	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-559848	6441377	2017-515361		
31053	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7028192	10-1843174	10-2016-0124223		
31054	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	14890577S		3138333		
31055	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029116		201647029116		
31056	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-502573		2017-513433		
31057	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026662	10-1806903	10-2016-0128360		
31058	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/125561	10314000	US-2017-0223695-A1		
31059	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	NP	PAT-Active	US	14/571053	9713085	US-2015-0312817-A1		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
31061	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	CNT	PAT-Active	US	15/639547	10028184	US-2017-0311215-A1		
31062	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	EP	15785380S	3138316	3138316		
31063	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	AT	15785380S	3138316	3138316		
31064	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	BE	15785380S	3138316	3138316		
31065	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	CH	15785380S	3138316	3138316		
31066	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	ETD	APP-Pending	EP	17185490P		3267726		
31067	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	DE	15785380S	########	3138316		
31068	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	EE	15785380S	3138316	3138316		
31069	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	ES	15785380S	3138316	3138316		
31070	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	FR	15785380S	3138316	3138316		
31071	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	GB	15785380S	3138316	3138316		
31072	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	GR	15785380S	3138316	3138316		
31073	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	FPR	APP-Pending	HK	17106036S		1247765		
31074	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	HU	15785380S	3138316	3138316		
31075	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	IE	15785380S	3138316	3138316		
31076	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	NL	15785380S	3138316	3138316		
31077	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	EPT	PAT-Active	SK	15785380S	3138316	3138316		
31078	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647031464		201647031464		
31079	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-558091	6442734	2017-516381		
31080	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026201	10-1834928	10-2016-0127049		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31081	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7018484	10-1879557	10-2017-0084339		
31082	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580015401	ZL201580015401 7	106134275		
31083	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	FPR	APP-Pending	HK	17102613		1229120		
31084	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029435		201647029435		
31085	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-555743	6382332	2017-517164		
31086	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	PAT-Active	US	15/124853	10129908	US-2017-0034851-A1		
31087	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	PAT-Active	US	14/563670	9794821	US-2015-0312793-A1		
31088	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201580031347		106134249		
31089	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	17103108		1229687		
31090	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029436		201647029436		
31091	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-559617	6275867	2017-511653		
31092	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026030	10-1885449	10-2016-0126009		
31093	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/578961	9560560	US-2015-0312818-A1		
31094	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029459		201647029459		
31095	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-559619	6338223	2017-510267		
31096	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026796	10-1863479	10-2016-0128371		
31097	UE ENB AND METHOD FOR CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	NP	PAT-Active	US	14/572309	9388484	US-2015-0312915-A1	Yes	
31098	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201606445		2017/07389	Yes	
31099	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029467		201647029467	Yes	
31100	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-556859	6388663	2017-510188	Yes	
31101	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026719	10-1886248	10-2016-0127783	Yes	
31102	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/012755	367277	MX/a/2016/012755	Yes	
31103	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31104	STORING A VALUE OF A COUNTER FOR A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/575876	9699669	US-2015-0309853-A1	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
31106	STORING A VALUE OF A COUNTER FOR A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/601786	10313899	US-2017-0257783-A1	Yes	
31107	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CA	2939832		2939832	Yes	
31108	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	15785942		3138318	Yes	
31109	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	17107612		1234242	Yes	
31110	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201505507		2017/07476	Yes	
31111	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029658		201647029658	Yes	
31112	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7025875	10-1881892	10-2016-0124204	Yes	
31113	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7020869		10-2018-0086288	Yes	
31114	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/012346	367208	MX/a/2016/012346	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
31116	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	PAT-Active	EU	2016138443	2657865	2016138443	Yes	
31117	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	PAT-Active	TW	104106837	I565334	201547290	Yes	
31118	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	DIV	APP-Pending	TW	105134082		201724882	Yes	
31119	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	14/696587	9867207	US-2015-0312930-A1		
31120	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	CN	201580014804X	ZL201580014804X	106165515		
31121	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	FPR	APP-Pending	HK	17102888		1229592		
31122	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201647029727		201647029727		
31123	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-555818	6382333	2017-513806		
31124	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7026648	10-1848538	10-2016-0128358		
31125	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	NP	PAT-Active	US	14/555259	10135586	US-2015-0270936-A1	Yes	
31126	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	PAT-Active	AU	2015231953	########	2015231953	Yes	
31127	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	PAT-Active	AU	2018201713	########	2018201711	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
31129	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	APP-Pending	BR	122017003395-6		122017003395-6	Yes	
31130	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	CNT	PAT-Active	US	15/392876	10127508	US-2017-0111150-A1	Yes	
31131	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	PAT-Active	CA	2937797	2937797	2937797	Yes	
31132	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	PAT-Active	CA	2954509	2954509	2954509	Yes	
31133	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	EPT	APP-Pending	EP	15765564		3120491	Yes	
31134	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605871		2017/06212	Yes	
31135	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	APP-Pending	ID	P00201700588		2017/13170	Yes	
31136	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	APP-Pending	IN	201748000315		201748000315	Yes	
31137	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-555482	6388954	2017-506851	Yes	
31138	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-152858		2018-198452	Yes	
31139	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022719	10-1936485	10-2016-0111571	Yes	
31140	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	APP-Pending	MX	MX/A/2016/011306		MX/A/2016/011306	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	

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31143	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	PAT-Active	EU	2016134127	2651582	2016134127	Yes	
31144	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL			PCD	PAT-Active	EU	2017103071	2677859	2017103071	Yes	
31145	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL			NP	PAT-Active	TW	106105379	1578826	201548934	Yes	
31146	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL			DIV	PAT-Active	TW	106102182	1646853	201720205	Yes	
31147	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			NP	PAT-Active	US	14/582612	9654586	US-2015-0312371-A1	Yes	
31148	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			DIV	PAT-Active	US	15/484858	9918184	US-2017-0223480-A1	Yes	
31149	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			PCT	APP-Pending	ID	P00201605463		2017/07329	Yes	
31150	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			PCT	APP-Pending	IN	201647027978		201647027978	Yes	
31151	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			PCT	PAT-Active	JP	2016-572380	6328802	2017-513420	Yes	
31152	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES			PCT	PAT-Active	KR	10-2016-7022565	10-1873369	10-2016-0110483	Yes	
[redacted]											
31154	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			NP	PAT-Active	US	14/582879	9467926	US-2015-0312881-A1	Yes	
31155	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			PCT	APP-Pending	CN	201580054869		106105383	Yes	
31156	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			FPR	APP-Pending	HK	1216124127		1229118	Yes	
31157	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			PCT	APP-Pending	IN	201647029866		201647029866	Yes	
31158	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			PCT	PAT-Active	JP	2016-555755	6339217	2017-517968	Yes	
31159	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK			PCT	PAT-Active	KR	10-2016-7028335	10-1877152	10-2016-0127068	Yes	
31160	RADIO COMMUNICATION DEVICE AND METHOD FOR OPERATION THEREOF			NP	PAT-Active	US	14/571414	9980313	US-2016-0174289-A1		
31161	RADIO COMMUNICATION DEVICE AND METHOD FOR OPERATION THEREOF			NP	PAT-Active	CN	201510755986.8	ZL2015100556868	105704818		
31162	RADIO COMMUNICATION DEVICE AND METHOD FOR OPERATION THEREOF			EPA	APP-Pending	EP	15194833.5		3035745		
[redacted]											
31167	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			NP	PAT-Active	US	14/583283	9743289	US-2015-0327286-A1		
31168	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			PCT	APP-Pending	IN	201647034262		201647034262		
31169	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			PCT	PAT-Active	JP	2016-566757	6411549	2017-520958		
31170	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			PCT	PAT-Active	KR	10-2016-7027743	10-1661945	10-2016-0136304		
31171	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			PCT	APP-Pending	IN	201647034273		201647034273		
31172	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			PCT	PAT-Active	JP	2016-563816	6517237	2017-519391		
31173	DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCE DESIGN FOR DEVICE-TO-DEVICE (D2D) DISCOVERY			CNT	APP-Pending	US	15/791508		US-2018-0109938-A1	Yes	
31174	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			NP	PAT-Active	US	14/580779	9398500	US-2015-0327133-A1		
31175	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			PCT	APP-Pending	CN	201580018848.4		106465258		
31176	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			FPR	APP-Pending	HK	1216070040		1233425		
31177	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			PCT	APP-Pending	IN	201647034556		201647034556		
31178	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			PCT	PAT-Active	JP	2016-563830	6406364	2017-514396		
31179	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			PCT	PAT-Active	KR	10-2016-7027571	10-1844334	10-2016-0131058		
31180	TENTATIVE GRANT FOR EFFICIENT DEVICE-TO- DEVICE COMMUNICATIONS			NP	PAT-Active	US	14/581770	9860909	US-2015-0327296-A1		
31181	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			PCT	APP-Pending	CN	201580018892.5		106465412		
31182	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			FPR	APP-Pending	HK	1216070395		1233817		
31183	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			PCT	PAT-Active	JP	2017-507676	6367470	2017-518003		
31184	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			PCT	PAT-Active	KR	10-2016-7027792	10-1832655	10-2016-0131067		
31185	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			NP	PAT-Active	US	14/582777	9509485	US-2015-0327280-A1		
31186	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			PCT	APP-Pending	IN	201647034275		201647034275		
31187	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			PCT	PAT-Active	JP	2016-563497	6430534	2017-517935		
31188	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			PCT	PAT-Active	KR	10-2016-7027784	10-1830021	10-2016-0132060		
31189	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			NP	APP-Pending	US	14/582580		US-2015-0327201-A1	Yes	
[redacted]											
31191	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	PAT-Active	CA	2965155	2965155	2965155	Yes	
31192	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			EPT	APP-Pending	EP	15785781.9		3141055	Yes	
31193	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Pending	ID	P00201806778		2017/07878	Yes	
31194	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Pending	IN	201647033804		201647033804	Yes	

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31195	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027790	10-1855030	10-2016-0130479	Yes	
31196	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7004567		10-2018-0021915	Yes	
31197	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/013199	368579	MX/a/2016/013199	Yes	
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31199	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016139438	2650485	2016139438	Yes	
31200	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	TW	104110682	I576000	201603629	Yes	
31201	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	DIV	PAT-Active	TW	105133564	I588251	201705791	Yes	
31202	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	DIV	PAT-Active	TW	106120771	I646852	201737784	Yes	
31203	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	NP	APP-Pending	US	14/671728		US-2015-0326302-A1	Yes	
31204	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCT	APP-Pending	BR	112016023504-5		112016023504-5	Yes	
31205	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018693X		106465111	Yes	
31206	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	FPR	APP-Pending	HK	17107317.2		1233827	Yes	
31207	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	EPT	APP-Pending	EP	15786300		3141011	Yes	
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31208	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-507942	6416380	2017-520202	Yes	
31210	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027817	10-1840413	10-2016-0130309	Yes	
31211	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7007378		10-2018-0035921	Yes	
31212	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	[redacted]	[redacted]	PCT	PAT-Active	RU	2016139439	2658659	2016139439	Yes	
31213	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/571025	9603186	US-2015-0327327-A1		
31214	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112016023288-7		112016023288-7		
31215	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018611		106165475		
31216	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201811222950		109348543		
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
31218	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17102889.1		1229593		
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
31220	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-568918	6423003	2017-515416		
31221	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	[redacted]	[redacted]	NP	PAT-Active	US	14/581885	9729175	US-2015-0377103-A1		
31222	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034442		201647034442		
31223	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-564268	6400730	2017-517193		
31224	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027782	10-1821084	10-2016-0132059		
31225	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	AU	2015255767	##########	2015255767	Yes	
31226	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	APP-Pending	BR	112016023588-6		112016023588-6	Yes	
31227	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	APP-Pending	CA	2945207		2945207	Yes	
31228	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	EPT	APP-Pending	EP	15783551		3141023	Yes	
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
31233	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	APP-Pending	ID	PID201806782		2017/07833	Yes	
31234	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034438		201647034438	Yes	
31235	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-567028	6342520	2017-515423	Yes	
31236	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027714	10-1858378	10-2016-0132055	Yes	
31237	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/013085	359234	MX/a/2016/013085	Yes	
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31239	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	RU	2016139444	2649309		Yes	
31240	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	PCT	PAT-Active	US	15/122495	9843958	US-2017-0078904-A1	Yes	
31241	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	[redacted]	[redacted]	CNT	APP-Pending	US	15/827221		US-2018-0091996-A1	Yes	
31242	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018594.6		106465265		
31243	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	FPR	APP-Pending	HK	17107716.9		1234247		
31244	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	EPT	APP-Pending	EP	15788846.2		3141087		
31245	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034464		201647034464		
31246	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7028037	10-1864978	10-2016-0131092		
31247	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	[redacted]	[redacted]	PCT	PAT-Active	US	15/115770	9877236	US-2017-0013515-A1		
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31248	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-563057	6479853	2017-518679		
31250	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027731	10-1988093	10-2016-0132054		
31251	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	NP	PAT-Active	US	14/562730	9538418	US-2015-0327117-A1		
31252	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018695B		106465185		
31253	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	FPR	APP-Pending	HK	17106B709		1233417		
31254	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034459		201647034459		
31255	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-565329	6370923	2017-514407		
31256	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027718	10-1877155	10-2016-0130302		
31257	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/582492	9729283	US-2015-0327275-A1		
31258	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018649B		106165482		
31259	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	17102890B		1229594		
31260	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647034564		201647034564		
31261	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-564616	6456975	2017-520947		
31262	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027746	10-1863880	10-2016-0132058		
31263	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	NP	PAT-Active	US	14/583057	9877256	US-2015-0271729-A1	Yes	
31264	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	AU	2015255871	########	2015255871	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31266	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	CNT	PAT-Active	US	15/822356	10178598	US-2018-0077623-A1	Yes	
31267	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	CA	2937910		2937910	Yes	
31268	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	EPT	APP-Pending	EP	15789818O		3141080	Yes	
31269	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201605411		2017/06331	Yes	
31270	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	IN	201647027456		201647027456	Yes	
31271	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-549356	6374519	2017-505074	Yes	
31272	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7022635	10-1842634	10-2016-0110993	Yes	
31273	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2018-7008074	10-1972553	10-2018-0033601	Yes	
31274	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/010628	362144	MX/a/2016/010628	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31276	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	EU	2016133748	2634838		Yes	
31277	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	NP	PAT-Active	US	14/583027	9467921	US-2015-0327139-A1	Yes	
31278	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	AU	2015256474	########	2015256474	Yes	
31279	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	APP-Pending	BR	112016023648-3		112016023648-3	Yes	
31280	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCD	APP-Pending	BR	122016030831-6		122016030831-6	Yes	
31281	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	CNT	PAT-Active	US	15/260020	9894598	US-2016-0381617-A1	Yes	
31282	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	CA	2945065	2945065	2945065	Yes	
31283	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	CNT	PAT-Active	US	15/820280	10194367	US-2018-0077622-A1	Yes	
31284	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	EPT	APP-Pending	EP	15785478B		3141028	Yes	
31285	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	ETD	APP-Pending	EP	16206330S		3182761	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31286	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	FPD	APP-Pending	HK	171132484		1240445	Yes	
31287	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201606784	ID0000063657		Yes	
31288	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036562		201647036562	Yes	
31289	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-565046	6498698	2017-514405	Yes	
31290	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7027715	10-1843487	10-2016-0130303	Yes	
31291	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7008780		10-2018-0039749	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31293	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	PCT	PAT-Active	RU	2016139434	2644389		Yes	
31294	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	NP	PAT-Active	TW	104110883	I569605	201605283	Yes	
31295	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	[redacted]	[redacted]	DIV	PAT-Active	TW	105137651	I625241	201709768	Yes	
31296	METHOD FOR DETERMINING A CHANNEL ESTIMATE AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/899908	9313002			
31297	METHOD FOR DETERMINING A CHANNEL ESTIMATE AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201510508202.1	ZL201510508202.1	105471773		
31298	METHOD FOR DETERMINING A CHANNEL ESTIMATE AND COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	4196/CHE/2015		4196/CHE/2015		
31299	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA IN ACCORDANCE WITH A RETRANSMISSION PROTOCOL	[redacted]	[redacted]	NP	PAT-Active	US	14/314042	10003990	US-2015-0381321-A1		
31300	APPARATUS AND METHOD FOR PROVIDING OSCILLATOR SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	14/580852	9484854	US-2016-0156310-A1		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
31302	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/577766	9713125	US-2016-0183242-A1	Yes	
31303	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580023522		107113064	Yes	
31304	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS	[redacted]	[redacted]	EPR	APP-Pending	HK	171119258		1238420	Yes	
31305	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747017638		201747017638	Yes	
31306	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14849472.7		3050395	Yes	
31307	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-536515	6285033	2016-531517	Yes	
31308	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-014848		2018-088703	Yes	
31309	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7004997	10-1780609	10-2016-0037981	Yes	
31310	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7025807	10-1903631	10-2017-0107583	Yes	
31311	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/914331	9986447	US-2016-0234702-A1	Yes	
31312	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/858425	10327163	US-2018-0192309-A1	Yes	
31313	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	201480053043.4	ZL201480053043.4	105594266	Yes	
31314	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS	[redacted]	[redacted]	EPR	APP-Pending	HK	161117493		1223764	Yes	
31315	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	14/919843	10009911	US-2016-0255602-A1	Yes	
31316	CIRCUIT SWITCHED FALL BACK IMPROVEMENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/872585	9749905	US-2016-0088218-A1		
31317	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201480047362.6		105493552	Yes	
31318	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS	[redacted]	[redacted]	PCD	APP-Pending	CN	201610856061.7		106899382	Yes	
31319	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS	[redacted]	[redacted]	FPD	APP-Pending	HK	171130985		1239980	Yes	
31320	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14845203.8		3050345	Yes	
31321	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION	[redacted]	[redacted]	EPR	APP-Pending	HK	161117363		1223224	Yes	
31322	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/583595	10200890	US-2016-0381587-A1	Yes	
31323	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	14/697369	10057878	US-2015-0350992-A1	Yes	
31324	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	AU	2015271124	2015271124	2015271124	Yes	
31325	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201607391		2017/08207	Yes	
31326	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036538		201647036538	Yes	
31327	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-570319	6345808	2017-520984	Yes	
31328	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7030142		10-2016-0138536	Yes	
31329	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/014303	361301	MX/a/2016/014303	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31331	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	TW	104117925	I605728	201803628	Yes	
31332	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	NP	PAT-Active	US	14/583272	9609586	US-2015-0350988-A1		
31333	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580021654.5		106233774		
31334	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPR	APP-Pending	HK	17103546.4		1229985		
31335	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036562		201647036562		
31336	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7030598	10-1859859	10-2016-0140894		

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
11337	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/583336	10142854	US-2015-0350989-A1		
11338	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580022856X		106465179		
11339	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	EPR	APP-Pending	HK	17107038		1233816		
11340	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036658		201647036658		
11341	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569993	6392375	2017-519438		
11342	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7030279	10-1872139	10-2016-0138025		
11343	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	NP	PAT-Active	US	14/583347	9860872	US-2015-0351079-A1		
11344	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580021667X		106465178		
11345	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	EPR	APP-Pending	HK	17107083		1233424		
11346	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	EPT	APP-Pending	EP	15803696?		3152955		
11347	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647036728		201647036728		
11348	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569858	6345807	2017-519436		
11349	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	NP	PAT-Active	US	14/318351	9888376	US-2015-0195706-A1	Yes	
11350	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	PCT	APP-Pending	CN	201480066235J		105794308	Yes	
11351	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	EPR	APP-Pending	HK	16134845D		1226565	Yes	
11352	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017112		201647017112	Yes	
11353	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-561589	6280658	2017-503451	Yes	
11354	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	NP	PAT-Active	US	14/318076	9510314	US-2015-0195805-A1	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
11356	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCD	APP-Pending	BR	122016021063-4		122016021063-4	Yes	
11357	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCD	APP-Pending	CN	201610615533X		106231628	Yes	
11358	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	EP	148773344	3092842	3092842	Yes	
11359	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	AT	148773344	3092842	3092842	Yes	
11360	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	BE	148773344	3092842	3092842	Yes	
11361	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	CH	148773344	3092842	3092842	Yes	
11362	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	DE	148773344	3092842	3092842	Yes	
11363	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	EE	148773344	3092842	3092842	Yes	
11364	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	ES	148773344	3092842	3092842	Yes	
11365	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	FR	148773344	3092842	3092842	Yes	
11366	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	GB	148773344	3092842	3092842	Yes	
11367	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	GR	148773344	3092842	3092842	Yes	
11368	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	HU	148773344	3092842	3092842	Yes	
11369	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	IE	148773344	3092842	3092842	Yes	
11370	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	NL	148773344	3092842	3092842	Yes	
11371	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPT	PAT-Active	SE	148773344	3092842	3092842	Yes	
11372	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	EPD	APP-Pending	HK	17109348		1229992	Yes	
11373	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017146		201647017146	Yes	
11374	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCD	APP-Pending	IN	201648022088		201648022088	Yes	
11375	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-534729	6221087	2017-507508	Yes	
11376	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCD	PAT-Active	JP	2016-141403	6272954	2017-085543	Yes	
11377	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014910	10-1807447	10-2016-0083075	Yes	
11378	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2016-7020781	10-1807449	10-2016-0095388	Yes	
11379	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	NP	PAT-Active	TW	103142203	I544817	201538069	Yes	
11380	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	DIV	PAT-Active	TW	105116278	I620451	201701688	Yes	
11381	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	14/496519	9425834	US-2016-0098251-A1		
11382	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	CN	201510523410X	ZL2015105234108	105471487		
11383	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	DIV	PAT-Active	US	15/243132	10103758	US-2017-0047955-A1		
11384	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	CNT	APP-Pending	US	16/134210		US-2019-0260404-A1		
11385	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	NP	PAT-Active	US	14/340936	9635530	US-2015-0109965-A1		

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
11386	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	EPT	APP-Pending	EP	14856525		3061312		
11387	METHOD AND DEVICE FOR ITERATIVE DECODING A DATA TRANSFER STRUCTURE	[redacted]	[redacted]	NP	PAT-Active	CN	201510963872	ZL2015103638729	105323035		
11388	METHOD AND DEVICE FOR ITERATIVE DECODING A DATA TRANSFER STRUCTURE	[redacted]	[redacted]	NP	APP-Pending	DE	102015133660		102015110602		
11389	CONTROLLING SUBSCRIBER IDENTITY MODULE (SIM) ACTIVE STATE IN A MULTIPLE SIMs RADIO	[redacted]	[redacted]	NP	PAT-Active	US	14/517868	9461685	US-2016-0112084-A1		
11390	CONTROLLING SUBSCRIBER IDENTITY MODULE (SIM) ACTIVE STATE IN A MULTIPLE SIMs RADIO	[redacted]	[redacted]	NP	PAT-Active	CN	201510599665	ZL2015105996691	105530024		
11391	CONTROLLING SUBSCRIBER IDENTITY MODULE (SIM) ACTIVE STATE IN A MULTIPLE SIMs RADIO	[redacted]	[redacted]	NP	PAT-Active	TW	104130292	I599245	201633816		
11392	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A DATA TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/472396	9718667	US-2016-0066335-A1		
11393	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A DATA TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	CN	201510834671	ZL2015108346713	105392158		
11394	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A DATA TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	DE	102015113039	[redacted]	102015113039		
11395	WIRELESS FIDELITY (WI-FI) CLEAR CHANNEL ASSESMENT (CCA) DETECTION AND TRANSMISSION DECISION MAKING IN A PORTABLE DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/757815	9673921	US-2017-0187473-A1		
11396	WIRELESS FIDELITY CLEAR CHANNEL ASSESMENT DETECTION AND TRANSMISSION DECISION MAKING IN A PORTABLE DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201511063564		107026698		
11397	APPARATUS METHOD AND SYSTEM OF CONTROLLING COMMUNICATIONS OF A MULTI-RADIO DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/472404	9532370	US-2016-0066339-A1		
11398	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	14/573164	9590713	US-2015-0373732-A1		
11399	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	PCT	PAT-Active	CN	201580026825	ZL2015800268253	105416106		
11400	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	EPR	APP-Pending	HK	17107709		1234227		
11401	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647037426		201647037426		
11402	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-572688	6392377	2017-521925		
11403	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7032605		10-2016-0147887		
11404	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/668366	10064054	US-2015-0373678-A1		
11405	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	PAT-Active	BR	112016026729-0	112016026729-0	112016026729-0		
11406	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647037427		201647037427		
11407	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	14/581938	9680678	US-2015-0373682-A1		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
11409	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580026840		106465472		
11410	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	EPR	APP-Pending	HK	17107712		1234248		
11411	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647037565		201647037565		
11412	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7032505		10-2016-0146899		
11413	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/575666	9603164	US-2016-0007373-A1		
11414	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/463406	10085280	US-2017-0223727-A1		
11415	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201580027643	ZL2015800276438	105416117		
11416	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPR	APP-Pending	HK	17106445		1233071		
11417	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	15815875	3164958	3164958		
11418	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	AT	15815875	3164958	3164958		
11419	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	BE	15815875	3164958	3164958		
11420	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	CH	15815875	3164958	3164958		
11421	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	DE	15815875	[redacted]	3164958		
11422	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EE	15815875	3164958	3164958		
11423	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	ES	15815875	3164958	3164958		
11424	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	FR	15815875	3164958	3164958		
11425	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GB	15815875	3164958	3164958		
11426	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	GR	15815875	3164958	3164958		
11427	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	HU	15815875	3164958	3164958		
11428	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	IE	15815875	3164958	3164958		
11429	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	NL	15815875	3164958	3164958		
11430	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	EPT	PAT-Active	SK	15815875	3164958	3164958		
11431	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647039055		201647039055		
11432	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7033913		10-2016-0148684		
11433	SYSTEM AND METHOD ON MEASUREMENT REPORT FOR LTE UNLICENSED SYSTEM	[redacted]	[redacted]	PSP	APP-Closed	US	62/020316				

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31434	METHOD APPARATUS AND SYSTEM FOR USING USER EQUIPMENT AS SMALL EVOLVED NODEB FOR SMALL CELL	[redacted]	[redacted]	PCT	APP-Pending	CN	201480081882		106688276		
31435	METHOD APPARATUS AND SYSTEM FOR USING USER EQUIPMENT AS SMALL EVOLVED NODEB FOR SMALL CELL	[redacted]	[redacted]	EPR	APP-Pending	HK	1710952		1235975		
31436	METHOD APPARATUS AND SYSTEM FOR USING A USER EQUIPMENT AS A SMALL EVOLVED NODEB FOR A SMALL CELL	[redacted]	[redacted]	EPT	APP-Pending	EP	1490815		3207781		
31437	METHOD APPARATUS AND SYSTEM FOR USING A USER EQUIPMENT AS A SMALL EVOLVED NODEB FOR A SMALL CELL	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-51888	6406483	2017-530640		
31438	METHOD APPARATUS AND SYSTEM FOR USING A USER EQUIPMENT AS A SMALL EVOLVED NODEB FOR A SMALL CELL	[redacted]	[redacted]	PCT	PAT-Active	US	15/511571	10244083	US-2017-0302763-A1		
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31440	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580028860		106465234	Yes	
31441	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	EPR	APP-Pending	HK	17106869		1233416	Yes	
31442	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	15814016		3162124	Yes	
31443	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647038		201647038378	Yes	
31444	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-51805	6449453	2017-521978	Yes	
31445	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7033		10-2017-0002515	Yes	
31446	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/112116	9900828	US-2016-0345243-A1	Yes	
31447	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/816472	10021628	US-2018-0092570-A1	Yes	
31448	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580028883X		106537857		
31449	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	EPR	APP-Pending	HK	1710850		1234919		
31450	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	APP-Pending	IN	201647038375		201647038375		
31451	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-568802	6415603	2017-525178		
31452	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7033691		10-2016-0145193		
31453	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	PAT-Active	US	15/300817	10111240	US-2017-0105227-A1		
31454	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/670233	10079822	US-2016-0344726-A1	Yes	
31455	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580027401		106471834	Yes	
31456	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	EPR	APP-Pending	HK	1710764		1234246	Yes	
31457	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	APP-Pending	IN	201647038378		201647038378	Yes	
31458	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-572496	6386098	2017-519442	Yes	
31459	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7033695	10-1915373	10-2017-0002532	Yes	
31460	SYSTEMS AND METHODS FOR ADJUSTING WIRELESS SCAN RATES	[redacted]	[redacted]	NP	PAT-Active	US	14/498361	9654915	US-2016-0094939-A1		
31461	SYSTEMS AND METHODS FOR ADJUSTING WIRELESS SCAN RATES	[redacted]	[redacted]	CNT	APP-Pending	US	15/591831		US-2017-0374500-A1		
31462	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	PCT	PAT-Active	CN	201480038481	ZL2014800 384813	105359440		
31463	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	EP	148347768	3031152	3031152		
31464	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	AT	148347768	3031152	3031152		
31465	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	BE	148347768	3031152	3031152		
31466	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	CH	148347768	3031152	3031152		
31467	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	DE	148347768	3031152	3031152		
31468	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	EE	148347768	3031152	3031152		
31469	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	ES	148347768	3031152	3031152		
31470	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	FR	148347768	3031152	3031152		
31471	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	GB	148347768	3031152	3031152		
31472	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	GR	148347768	3031152	3031152		
31473	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	HU	148347768	3031152	3031152		
31474	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	IE	148347768	3031152	3031152		
31475	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	NL	148347768	3031152	3031152		
31476	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPT	PAT-Active	SE	148347768	3031152	3031152		
31477	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	EPR	PAT-Active	HK	1610896	1221562	1221562		
31478	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	PCT	PAT-Active	US	14/903575	10050692	US-2016-0173262-A1		
31479	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580036455		106576301		
31480	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	EPR	APP-Pending	HK	1710952		1235975		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31481	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004217		201747004217		
31482	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005195		10-2017-0036757		
31483	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	15/505542		US-2017-0280369-A1		
31484	POWER SAVING TECHNIQUES FOR eMBMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15874181		3238465		
31485	CONTENT ACCESS AUTHENTICATION FOR DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	NP	PAT-Active	US	14/887714	9497180	US-2015-0113604-A1	Yes	
31486	CONTENT ACCESS AUTHENTICATION FOR DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	CNT	PAT-Active	US	15/335307	9980136	US-2017-0303121-A1	Yes	
31487	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	14/491639	9674852	US-2015-0117183-A1	Yes	
31488	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	PAT-Active	US	15/614208	10015807	US-2017-0273095-A1	Yes	
31489	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	PAT-Active	US	16/008015	10397935	US-2018-0288778-A1	Yes	
31490	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	14/571877	9385217	US-2016-0173209-A1		
31491	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	CN	201510755644	ZL2015107556446	105703784		
31492	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	[redacted]	[redacted]	NP	APP-Pending	IN	5820/CHE/2015		5820/CHE/2015		
31493	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	NP	PAT-Active	US	14/835031	9571120	US-2016-0094235-A1		
31494	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	NP	PAT-Active	CN	201510526698	ZL2015105266985	105471434		
31495	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	DIV	APP-Pending	CN	201810123628		108390674		
31496	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	NP	APP-Pending	DE	102016113922		102016113922		
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
31498	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	NP	APP-Pending	IN	4197/CHE/2015		4197/CHE/2015		
31499	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	[redacted]	[redacted]	NP	PAT-Active	TW	104127019	I590593	201631901		
31500	NETWORK MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	CN	201480039186	ZL2014800391862	105393638		
31501	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	14835421	3031295	3031295		
31502	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	AT	14835421	3031295	3031295		
31503	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	BE	14835421	3031295	3031295		
31504	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	CH	14835421	3031295	3031295		
31505	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	14835421	3031295	3031295		
31506	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EE	14835421	3031295	3031295		
31507	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	ES	14835421	3031295	3031295		
31508	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	14835421	3031295	3031295		
31509	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	14835421	3031295	3031295		
31510	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GR	14835421	3031295	3031295		
31511	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	HU	14835421	3031295	3031295		
31512	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	IE	14835421	3031295	3031295		
31513	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	14835421	3031295	3031295		
31514	NETWORK MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	SK	14835421	3031295	3031295		
31515	NETWORK MANAGEMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	16109374		1222261		
31516	NETWORK MANAGEMENT	[redacted]	[redacted]	PCT	PAT-Active	US	14/903578	10159002	US-2016-0156440-A1		
31517	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480051770	ZL2014800 519702	105684529		
31518	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16112899		1224873		
31519	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201480053141	ZL2014800 531418	105580464		
31520	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	14858306	3064007	3064007		
31521	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	AT	14858306	3064007	3064007		
31522	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	BE	14858306	3064007	3064007		
31523	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	CH	14858306	3064007	3064007		
31524	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	14858306	3064007	3064007		
31525	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EE	14858306	3064007	3064007		
31526	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	ES	14858306	3064007	3064007		
31527	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	14858306	3064007	3064007		
31528	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	14858306	3064007	3064007		
31529	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GR	14858306	3064007	3064007		
31530	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	HU	14858306	3064007	3064007		
31531	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	IE	14858306	3064007	3064007		
31532	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	14858306	3064007	3064007		
31533	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	SK	14858306	3064007	3064007		
31534	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16111505		1223478		
31535	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/023063	10147939	US-2016-0238855-A1		
31536	CONTENT DISTRIBUTION	[redacted]	[redacted]	NP	PAT-Active	US	14/486029	9912985	US-2016-0094872-A1		
31537	CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580048550		106576192		
31538	CONTENT DISTRIBUTION	[redacted]	[redacted]	FPR	APP-Pending	HK	17103935		1235945		
31539	CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	APP-Pending	EP	15763693		3198862		
31540	CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7005161	10-1843395	10-2017-0038223		
31541	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	NP	PAT-Active	US	14/485002	10375709	US-2015-0117425-A1	Yes	
31542	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	CNT	APP-Pending	US	16/444616		US-2019-0306868-A1	Yes	
31543	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	PCT	APP-Pending	CN	201480053124		105580480	Yes	
31544	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	EPT	APP-Pending	EP	14858479		3063992	Yes	
31545	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	FPR	APP-Pending	HK	16112386		1224482	Yes	
31546	SYMBOL CONSTELLATION DESIGN	[redacted]	[redacted]	NP	PAT-Active	US	14/573994	9584351	US-2016-0182267-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31547	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	EP	15801301S	3235206	3235206		
31548	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	AT	15801301S	3235206	3235206		
31549	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	BE	15801301S	3235206	3235206		
31550	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	CH	15801301S	3235206	3235206		
31551	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	DE	15801301S	3235206	3235206		
31552	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	EE	15801301S	3235206	3235206		
31553	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	ES	15801301S	3235206	3235206		
31554	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	FR	15801301S	3235206	3235206		
31555	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	GB	15801301S	3235206	3235206		
31556	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	GR	15801301S	3235206	3235206		
31557	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	HU	15801301S	3235206	3235206		
31558	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	IE	15801301S	3235206	3235206		
31559	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	NL	15801301S	3235206	3235206		
31560	CLEARING OF GUARD INTERVAL INTIME DOMAIN BY DISTORTION OF DATA SUBCARRIERS IN FREQUENCY DOMAIN	[redacted]		EPT	PAT-Active	SK	15801301S	3235206	3235206		
31561	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		NP	PAT-Active	US	14/495517	9538431	US-2016-0088533-A1		
31562	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		CNT	PAT-Active	US	15/384537	10136368	US-2017-0295525-A1		
31563	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PCT	APP-Pending	CN	201580043851?		106664621		
31564	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PCD	APP-Pending	CN	201710998256?		107734581		
31565	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PPD	APP-Pending	HK	18106869?		1250116		
31566	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PPR	APP-Pending	HK	17309361?		1235961		
31567	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PCT	APP-Pending	IN	201747004344		201747004344		
31568	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]		PCT	PAT-Active	KR	10-2017-7004888	10-1966668	10-2017-0034403		
31569	POWER ADAPTION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]		PCT	APP-Pending	CN	201580043864?		106664662		
31570	POWER ADAPTION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]		PPR	APP-Pending	HK	17309357?		1235960		
31571	POWER ADAPTATION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]		EPT	PAT-Active	EP	15750862?	3198952	3198952		
31572	POWER ADAPTATION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]		EPT	PAT-Active	DE	15750862?	########	3198952		
31573	POWER ADAPTATION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]		PCT	APP-Pending	KR	10-2017-7004836		10-2017-0038849		
31574	PRINCIPAL EIGEN BEAM QUANTIZATION FOR MIMO SYSTEMS	[redacted]		NP	PAT-Active	US	14/796820	9906280	US-2016-0013838-A1		
31575	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PCT	APP-Pending	CN	201580029250?		106664601	Yes	
31576	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PPR	APP-Pending	HK	17109362?		1235962	Yes	
31577	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	EP	15818190?	3167648	3167648	Yes	
31578	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	AT	15818190?	3167648	3167648	Yes	
31579	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	BE	15818190?	3167648	3167648	Yes	
31580	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	CH	15818190?	3167648	3167648	Yes	
31581	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	DE	15818190?	########	3167648	Yes	
31582	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	EE	15818190?	3167648	3167648	Yes	
31583	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	ES	15818190?	3167648	3167648	Yes	
31584	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	FR	15818190?	3167648	3167648	Yes	
31585	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	GB	15818190?	3167648	3167648	Yes	
31586	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	GR	15818190?	3167648	3167648	Yes	
31587	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	HU	15818190?	3167648	3167648	Yes	
31588	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	IE	15818190?	3167648	3167648	Yes	
31589	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	NL	15818190?	3167648	3167648	Yes	
31590	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		EPT	PAT-Active	SK	15818190?	3167648	3167648	Yes	
31591	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PCT	APP-Pending	IN	201647039390		201647039390	Yes	
31592	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PCT	PAT-Active	JP	2016-569424	6364668	2017-520166	Yes	
31593	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PCT	APP-Pending	KR	10-2016-7034263		10-2017-0003648	Yes	
31594	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]		PCT	PAT-Active	US	15/121705	10045257	US-2016-0366613-A1	Yes	
31595	EVOLVED NODE-B AND METHODS FOR SUPPORTING CO-EXISTENCE WITH WI-FI NETWORKS IN AN UNLICENSED FREQUENCY BAND	[redacted]		NP	PAT-Active	US	14/475008	9801207	US-2015-0146645-A1		
31596	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		NP	PAT-Active	US	14/498276	9681487	US-2015-0146647-A1	Yes	
31597	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PCT	APP-Pending	BR	112016009418-2		112016009418	Yes	
31598	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		CNT	PAT-Active	US	15/492844	10375727	US-2017-0273106-A1	Yes	
31599	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		CNT	APP-Pending	US	16/408378		US 2019-0373632 A1	Yes	
31600	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PCT	APP-Pending	CN	201480058034?		105684374	Yes	
31601	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		EPT	APP-Pending	EP	14866769?		3075124	Yes	
31602	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PPR	APP-Pending	HK	16112807?		1224835	Yes	
31603	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PCT	APP-Pending	ID	P00201602838		2017/00547	Yes	
31604	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PCT	APP-Pending	IN	201647014123		201647014123	Yes	
31605	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]		PCT	PAT-Active	RU	2016116704	2633392		Yes	
31606	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]		PCT	APP-Pending	CN	201580042815?		106797809		
31607	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]		PPR	APP-Pending	HK	17109452?		1235969		
31608	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]		NP	APP-Pending	IN	4554/CHE/2014		4554/CHE/2014		
31609	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]		PCT	APP-Pending	US	15/325398		US-2017-0202848-A1		
31610	RADIO LINK MONITORING	[redacted]		NP	PAT-Active	US	14/498993	9974095	US-2015-0146562-A1	Yes	
31611	RADIO LINK MONITORING	[redacted]		PCT	PAT-Active	AU	2014355109	########	2014355109	Yes	
31612	RADIO LINK MONITORING	[redacted]		PCT	APP-Pending	BR	112016009420-4		112016009420	Yes	
31613	RADIO LINK MONITORING	[redacted]		CNT	PAT-Active	US	15/886736	10477575	US-2018-0150450-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31614	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480057693.5	ZL2014800576989	105659658	Yes	
31615	RADIO LINK MONITORING	[redacted]	[redacted]	FPR	APP-Pending	HK	16113715.1		1224496	Yes	
31616	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647014209		201647014209	Yes	
31617	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-526111	6350037	2016-538766	Yes	
31618	RADIO LINK MONITORING	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7029125	10-1873845	10-2017-0118239	Yes	
31619	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	PAT-Active	MX	MX/a/2016/013875	363211		Yes	
31620	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	PAT-Active	RU	2016116705	2635081	2016116705	Yes	
31621	RADIO LINK MONITORING	[redacted]	[redacted]	PCD	APP-Closed	RU	2017136548		2017136548	Yes	
31622	RADIO LINK MONITORING	[redacted]	[redacted]	DIV	PAT-Active	RU	2017137397	2682528		Yes	
31623	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	NP	PAT-Active	US	14/492039	9906983	US-2015-0195743-A1	Yes	
31624	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	AU	2015203907	[redacted]	2015203907	Yes	
31625	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	BR	112016012901-6		112016012901-6	Yes	
31626	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	CNT	PAT-Active	US	14/871499	9820187	US-2016-0021570-A1	Yes	
31627	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	CNT	APP-Pending	US	15/724283		US-2018-0027450-A1	Yes	
31628	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	CN	201580028423.6	ZL2015800028423	105794259	Yes	
31629	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	EP	15733124.0	3092845	3092845	Yes	
31630	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	AT	15733124.0	3092845	3092845	Yes	
31631	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	BE	15733124.0	3092845	3092845	Yes	
31632	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	CH	15733124.0	3092845	3092845	Yes	
31633	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	DE	15733124.0	[redacted]	3092845	Yes	
31634	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	EE	15733124.0	3092845	3092845	Yes	
31635	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	ES	15733124.0	3092845	3092845	Yes	
31636	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	FR	15733124.0	3092845	3092845	Yes	
31637	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	GB	15733124.0	3092845	3092845	Yes	
31638	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	GR	15733124.0	3092845	3092845	Yes	
31639	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	HU	15733124.0	3092845	3092845	Yes	
31640	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	IE	15733124.0	3092845	3092845	Yes	
31641	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	NL	15733124.0	3092845	3092845	Yes	
31642	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	EPT	PAT-Active	SK	15733124.0	3092845	3092845	Yes	
31643	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	FPR	APP-Pending	HK	16113701.5		1225558	Yes	
31644	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201604316		2017/06955	Yes	
31645	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017143		201647017143	Yes	
31646	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-538661	6250816	2017-503406	Yes	
31647	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-224422	6485871	2018-050331	Yes	
31648	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014937	10-1797885	10-2016-0086356	Yes	
31649	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7032230	10-1962735	10-2017-0126084	Yes	
31650	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	RU	2016122307	2631674		Yes	
31651	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCD	PAT-Active	RU	2017131268	2663810		Yes	
31652	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	NP	PAT-Active	US	14/492039	9894583	US-2015-0195799-A1	Yes	
31653	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	CNT	APP-Pending	US	15/864352		US-2018-0132154-A1	Yes	
31654	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	CN	201580029343.1	ZL2015800029343	105981448	Yes	
31655	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	EPT	APP-Pending	EP	15733263.6		3092851	Yes	
[redacted]											
31658	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	FPR	APP-Pending	HK	17106167		1226897	Yes	
31661	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017728		201647017728	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31682	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7015007	10-1805521	10-2016-0082693	Yes	
31683	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2017-7034678		10-2017-0137943	Yes	
31684	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	NP	PAT-Active	US	14/495725	9480029	US-2015-0195786-A1	Yes	
31685	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	PAT-Active	US	15/276081	10148259	US-2017-0013571-A1	Yes	
31686	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	CNT	APP-Pending	US	16/162972		US 2019-0107278 A1	Yes	
31687	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201480053337		105794283	Yes	
31688	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCD	APP-Pending	CN	201811351793X		110062851	Yes	
31689	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	APP-Pending	EP	14876706S		3092856	Yes	
[redacted]											
31675	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	EPR	APP-Pending	HK	161136999		1225869	Yes	
31676	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-535032	6404934	2017-508391	Yes	
31677	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-171200		2019-017092	Yes	
31678	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014681	10-1873131	10-2016-0082536	Yes	
31679	SYSTEM AND METHOD FOR CONTROLLING A LICENSED SHARED ACCESS RADIO	[redacted]	[redacted]	NP	PAT-Active	US	14/538575	9532376	US-2016-0135220-A1		
31680	SYSTEM AND METHOD FOR CONTROLLING A LICENSED SHARED ACCESS RADIO	[redacted]	[redacted]	CNT	PAT-Active	US	15/342584	9801225	US-2017-0055303-A1		
31681	SYSTEM AND METHOD FOR CONTROLLING A LICENSED SHARED ACCESS RADIO	[redacted]	[redacted]	PCT	APP-Pending	CN	201580055174		107079512		
31682	SYSTEM AND METHOD FOR CONTROLLING A LICENSED SHARED ACCESS RADIO	[redacted]	[redacted]	EPR	APP-Pending	HK	18160426S		1241195		
31683	APPARATUSES SYSTEMS AND METHOD FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580029591X		106416312	Yes	
31684	APPARATUSES SYSTEMS AND METHOD FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPR	APP-Pending	HK	17107082S		1233829	Yes	
31685	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	15738217?	3165017	3165017	Yes	
31686	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	15738217?	3165017	3165017		
31687	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	15738217?	3165017	3165017		
31688	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	15738217?	3165017	3165017		
31689	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	15738217?	3165017	3165017		
31690	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-570302	6381605	2017-520178	Yes	
31691	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7033648	10-1937008	10-2016-0147979	Yes	
31692	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/126560		US-2017-0086165-A1	Yes	
31693	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	NP	PAT-Active	US	14/497016	10206226	US-2015-0146599-A1		
31694	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480057765?	ZL201480057765.7	105659692		
31695	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	EP	14865220?	3078237	3078237		
31696	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	AT	14865220?	3078237	3078237		
31697	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	BE	14865220?	3078237	3078237		
31698	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	CH	14865220?	3078237	3078237		
31699	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	DE	14865220?	3078237	3078237		
31700	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	EE	14865220?	3078237	3078237		
31701	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	ES	14865220?	3078237	3078237		
31702	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	FR	14865220?	3078237	3078237		
31703	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	GB	14865220?	3078237	3078237		
31704	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	GR	14865220?	3078237	3078237		
31705	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	HU	14865220?	3078237	3078237		
31706	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	IE	14865220?	3078237	3078237		
31707	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	NL	14865220?	3078237	3078237		
31708	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	SE	14865220?	3078237	3078237		
31709	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPR	APP-Pending	HK	16312714?		1224494		
31710	COORDINATION TECHNIQUES FOR DISCONTINUOUS RECEPTION (DRX) OPERATIONS IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480058989X	ZL201480058989X	105684499		
31711	COORDINATION TECHNIQUES FOR DISCONTINUOUS RECEPTION (DRX) OPERATIONS IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPR	APP-Pending	HK	16112598?		1224488		
31712	COORDINATION TECHNIQUES FOR DISCONTINUOUS RECEPTION (DRX) OPERATIONS IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	US	15/026548	10231263	US-2016-0249405-A1		
31713	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	US	14/496970	9467269	US-2015-0195818-A1	Yes	
31714	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112016012910-5		112016012910-5	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31715	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/241361	10015036	US-2016-0373287-A1	Yes	
31716	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CA	2931649	2931649	2931649	Yes	
31717	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580002822		106233687	Yes	
31718	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EP	157332461	3092761	3092761	Yes	
31719	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	AT	157332461	3092761	3092761	Yes	
31720	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	BE	157332461	3092761	3092761	Yes	
31721	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	CH	157332461	3092761	3092761	Yes	
31722	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	DE	157332461	########	3092761	Yes	
31723	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	EE	157332461	3092761	3092761	Yes	
31724	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	ES	157332461	3092761	3092761	Yes	
31725	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	FR	157332461	3092761	3092761	Yes	
31726	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GB	157332461	3092761	3092761	Yes	
31727	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	GR	157332461	3092761	3092761	Yes	
31728	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	HU	157332461	3092761	3092761	Yes	
31729	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	IE	157332461	3092761	3092761	Yes	
31730	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	NL	157332461	3092761	3092761	Yes	
31731	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	PAT-Active	SK	157332461	3092761	3092761	Yes	
31732	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPR	APP-Pending	HK	17103480		1229574	Yes	
31733	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017729		201647017729	Yes	
31734	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-543110	6321183	2017-503417	Yes	
31735	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-072460		2018-152856	Yes	
31736	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014955	10-1928632	10-2016-0083921	Yes	
31737	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	MX	MX/A/2016/008343		MX/A/2016/008343	Yes	
31738	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016122272	2653483	2016122272	Yes	
31739	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCD	PAT-Active	RU	2016141393	2643355		Yes	
31740	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	DIV	PAT-Active	RU	2018101307	2677865		Yes	
31741	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	TW	104100267	I590688	201547308	Yes	
31742	APPARATUS FOR USER EQUIPMENT AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	PAT-Active	TW	105135955	I636698	201717685	Yes	
31743	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157331653		3092727	Yes	
31744	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017723		201647017723	Yes	
31745	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	NP	PAT-Active	TW	104100268	I552616	201541984	Yes	
31746	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	DIV	PAT-Active	TW	105119740	I630832	201635822	Yes	
31747	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	NP	PAT-Active	US	14/498517	9787376	US-2015-0195020-A1		
31748	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	EPT	APP-Pending	EP	157332624		3092724		
31749	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-543153	6325113	2017-507523		
31750	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014961	10-1777533	10-2016-0083083		
31751	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	14/484189	10003972	US-2015-0195712-A1		
31752	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201580002824	2015800028245	105794270		
31753	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	EPR	APP-Pending	HK	16113697		1225556		
31754	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-543684	6180644	2017-505572		
31755	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014656	10-1803751	10-2016-0083958		
31756	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	NP	APP-Pending	US	14/488502		US-2015-0195819-A1	Yes	
31757	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112016012916-4		112016012916-4	Yes	
31758	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/457367		US 2019-0364545 A1	Yes	
31759	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CA	2931654		2931654	Yes	

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31759	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580092954.3	ZL2015800 0295.49	105794167	Yes	
31761	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157332982		3092762	Yes	
31762	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16112805.2		1224834	Yes	
31763	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201703756		2017/06695	Yes	
31764	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017817		201647017817	Yes	
31765	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-534978	6576564	2017-509173	Yes	
31766	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014976	10-1896154	10-2016-0083924	Yes	
31767	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2016122515	2637495		Yes	
31768	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCD	PAT-Active	RU	2017100324	2649371		Yes	
31769	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCD	PAT-Active	RU	2018105329	2684411		Yes	
31770	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	TW	104100272	I556671	201543933	Yes	
31771	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	DIV	PAT-Active	TW	105125457	I610588	201705795	Yes	
31772	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	DIV	PAT-Active	TW	106136966	I664871	201808047	Yes	
31773	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201580028419		105794262		
31774	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	[redacted]	[redacted]	EPT	APP-Pending	EP	157332370		3092848		
31775	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	16113700.6		1223557		
31776	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	NP	PAT-Active	US	14/583853	10075988	US-2015-0195867-A1	Yes	
31777	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	CNT	PAT-Active	US	15/396477	10225880	US-2017-0111956-A1	Yes	
31778	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580028408		105865263	Yes	
31779	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCD	APP-Pending	CN	201910462456.2		110213837	Yes	
31780	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	FPR	APP-Pending	HK	17107008.8		1233427	Yes	
31781	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	EP	157333139	3092854	3092854	Yes	
31782	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	AT	157333139	3092854	3092854	Yes	
31783	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	BE	157333139	3092854	3092854	Yes	
31784	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	CH	157333139	3092854	3092854	Yes	
31785	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	ETD	PAT-Active	EP	181813247	3402302	3402302	Yes	
31786	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	ETD	PAT-Active	DE	181813247	88888888	3402302		
31787	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	ETD	PAT-Active	FR	181813247	3402302	3402302		
31788	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	ETD	PAT-Active	GB	181813247	3402302	3402302		
31789	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	ETD	PAT-Active	NL	181813247	3402302	3402302		
31790	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	DE	157333139	88888888	3092854	Yes	
31791	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	EE	157333139	3092854	3092854	Yes	
31792	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	ES	157333139	3092854	3092854	Yes	
31793	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	FR	157333139	3092854	3092854	Yes	
31794	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	GB	157333139	3092854	3092854	Yes	
31795	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	GR	157333139	3092854	3092854	Yes	
31796	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	HU	157333139	3092854	3092854	Yes	
31797	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	IE	157333139	3092854	3092854	Yes	
31798	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	NL	157333139	3092854	3092854	Yes	
31799	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	PAT-Active	SK	157333139	3092854	3092854	Yes	
31800	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUALCONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647017982		201647017982	Yes	
31801	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-538035	6370608	2016-540448	Yes	
31802	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014978	10-1943172	10-2016-0083989	Yes	
31803	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	14/499178	9629143	US-2015-0195820-A1		
31804	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580029534		105981315		

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31805	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	EP	15733273S	3092728	3092728		
31806	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	DE	15733273S	3092728	3092728		
31807	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	FR	15733273S	3092728	3092728		
31808	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	GB	15733273S	3092728	3092728		
31809	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	EPT	PAT-Active	NL	15733273S	3092728	3092728		
31810	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	FPR	APP-Pending	HK	17101820S		1228608		
31811	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-535130	6263828	2017-508316		
31812	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014957	10-1883211	10-2016-0083082		
31813	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	NP	PAT-Active	US	14/582376	9386275	US-2015-0195480-A1	Yes	
31814	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	CNT	PAT-Active	US	15/180510	9794515	US-2016-0295166-A1	Yes	
31815	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	CNT	PAT-Active	US	15/710589	10165226	US-2018-0013980-A1	Yes	
31816	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	PAT-Active	CN	201580002834S	ZL2015800028348	105794204	Yes	
31817	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCD	APP-Pending	CN	201910628409S		110417753	Yes	
31818	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	EPT	APP-Pending	EP	15733222		3092793	Yes	
31819	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	FPR	APP-Pending	HK	16113702S		1225539	Yes	
31820	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	NP	PAT-Active	US	14/583036	10476930	US-2015-0195328-A1	Yes	
31821	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	CNT	APP-Pending	US	16/408101		US 2020-0137137 A1	Yes	
31822	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	PCT	PAT-Active	CN	201580002839S	ZL2015800028391	105794160	Yes	
31823	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	PCD	APP-Pending	CN	201910623569S		110417752	Yes	
31824	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	EPT	APP-Pending	EP	15733188S		3092754	Yes	
31825	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	FPR	APP-Pending	HK	16113698Q		1225532	Yes	
31826	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-538658	6316967	2017-505024	Yes	
31827	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7014895	10-2062675	10-2016-0106563	Yes	
31828	STRUCTURED SUPER-POSITIONING CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	NP	PAT-Active	US	14/498427	10200982	US-2016-0095090-A1		
31829	STRUCTURED SUPER-POSITION CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580044657S		107852392		
31830	STRUCTURED SUPER-POSITION CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	FPR	APP-Pending	HK	18111303S		1251981		
31831	STRUCTURED SUPER-POSITION CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-508629	6415695	2017-535094		
31832	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/500119	9787742	US-2016-0094605-A1		
31833	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580044658		106575320		
31834	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	17109933S		1239958		
31835	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	15846151?	3202179	3202179		
31836	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	15846151?	########	3202179		
31837	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	15846151?	3202179	3202179		
31838	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	15846151?	3202179	3202179		
31839	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	15846151?	3202179	3202179		
31840	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747005178		201747005178		
31841	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-512033	6449443	2017-535100		
31842	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7004936		10-2017-0034418		
31843	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	[redacted]	[redacted]	NP	PAT-Active	US	14/489874	9456405	US-2015-0119911-A1	Yes	
31844	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	[redacted]	[redacted]	CNT	PAT-Active	US	15/264556	9973344	US-2017-0134967-A1	Yes	
31845	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	[redacted]	[redacted]	CNT	APP-Pending	US	15/935402		US-2018-0213418-A1	Yes	
31846	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	NP	PAT-Active	US	14/481356	9763210	US-2015-0119910-A1		
31847	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	CNT	PAT-Active	US	15/701090	10420053	US-2018-0027516-A1		
31848	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	CNT	APP-Pending	US	16/538823		US 2020-0037278 A1		
31849	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	NP	PAT-Active	US	14/479825	10142064	US-2015-0078224-A1		
31850	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	PCT	PAT-Active	CN	201480045640Z	ZL2014800456402	105493418		
31851	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	EP	148451743	3047579	3047579		
31852	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	AT	148451743	3047579	3047579		
31853	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	BE	148451743	3047579	3047579		
31854	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	CH	148451743	3047579	3047579		
31855	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	DE	148451743	3047579	3047579		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31856	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	EE	148451743	3047579	3047579		
31857	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	ES	148451743	3047579	3047579		
31858	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	FR	148451743	3047579	3047579		
31859	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	GB	148451743	3047579	3047579		
31860	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	GR	148451743	3047579	3047579		
31861	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	HU	148451743	3047579	3047579		
31862	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	IE	148451743	3047579	3047579		
31863	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	NL	148451743	3047579	3047579		
31864	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPT	PAT-Active	SK	148451743	3047579	3047579		
31865	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	FPR	APP-Pending	HK	16113029.8		1222954		
31866	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	[redacted]	[redacted]	NP	PAT-Active	US	14/575448	9572130	US-2016-0183218-A1		
31867	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	[redacted]	[redacted]	EPT	APP-Pending	EP	15870655.8		3235153		
31868	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	NP	PAT-Active	US	14/895704	9832787	US-2015-0117187-A1		
31869	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	PCT	PAT-Active	CN	201480053042X	ZL201480053042X	105580417		
31870	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	EPT	PAT-Active	EP	14859283.5	3063980	3063980		
31871	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	EPT	PAT-Active	DE	148592835	3063980	3063980		
31872	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	EPT	PAT-Active	NL	148592835	3063980	3063980		
31873	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	FPR	APP-Pending	HK	16111504.8		1223477		
31874	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/513041	9936628	US-2015-0117408-A1		
31875	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	15/418483		US-2017-0127762-A1		
31876	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201480051972.1		105580328		
31877	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	APP-Pending	CN	201711127669		107889176		
31878	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPD	APP-Pending	HK	18111846.3		1252536		
31879	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	14856618.3		3063965		
31880	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	16112384.2		1224452		
31881	WIFI VIRTUAL CARRIER SENSE FOR LTE/WIFI CO-CHANNEL COORDINATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201480057764.2		105659660		
31882	WIFI VIRTUAL CARRIER SENSE FOR LTE/WIFI CO-CHANNEL COORDINATION	[redacted]	[redacted]	EPT	APP-Pending	EP	14866388.3		3075186		
31883	WIFI VIRTUAL CARRIER SENSE FOR LTE/WIFI CO-CHANNEL COORDINATION	[redacted]	[redacted]	FPR	APP-Pending	HK	16112712.4		1224493		
31884	METHODS DEVICES AND COMPUTER READABLE MEDIA FOR DYNAMIC SCHEDULING	[redacted]	[redacted]	NP	PAT-Active	US	14/897934	9467260	US-2016-0094322-A1		
31885	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EP	148591456	3063982	3063982	Yes	
31886	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	AT	148591456	3063982	3063982	Yes	
31887	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	BE	148591456	3063982	3063982	Yes	
31888	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	CH	148591456	3063982	3063982	Yes	
31889	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	ETD	APP-Pending	EP	18188657.4		3419317	Yes	
31890	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	DE	148591456	3063982	3063982	Yes	
31891	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	EE	148591456	3063982	3063982	Yes	
31892	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	ES	148591456	3063982	3063982	Yes	
31893	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	FR	148591456	3063982	3063982	Yes	
31894	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GB	148591456	3063982	3063982	Yes	
31895	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	GR	148591456	3063982	3063982	Yes	
31896	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	HU	148591456	3063982	3063982	Yes	
31897	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	IE	148591456	3063982	3063982	Yes	
31898	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	NL	148591456	3063982	3063982	Yes	
31899	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	PAT-Active	SK	148591456	3063982	3063982	Yes	
31900	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	US	14/917154	10015805	US-2016-0234847-A1	Yes	
31901	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/994154		US-2018-0317237-A1	Yes	
31902	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/486791		US 2019-0364575 A1	Yes	
31903	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	PAT-Active	CN	201480051968.5	ZL201480051968.5	105556934		
31904	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	EP	14858660.1	3063883	3063883		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31905	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	AT	148588601	3063883	3063883		
31906	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	BE	148588601	3063883	3063883		
31907	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	CH	148588601	3063883	3063883		
31908	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	DE	148588601	3063883	3063883		
31909	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	EE	148588601	3063883	3063883		
31910	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	ES	148588601	3063883	3063883		
31911	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	FR	148588601	3063883	3063883		
31912	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	GB	148588601	3063883	3063883		
31913	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	GR	148588601	3063883	3063883		
31914	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	HU	148588601	3063883	3063883		
31915	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	IE	148588601	3063883	3063883		
31916	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	NL	148588601	3063883	3063883		
31917	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	PAT-Active	SE	148588601	3063883	3063883		
31918	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPR	APP-Pending	HK	161112354		1223223		
31919	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480053377X	ZL2014800 533771	105594140	Yes	
31920	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	APP-Pending	CN	201711036406?		107645748	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
31922	SIGNALLING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	14858830		3063882	Yes	
31923	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPR	APP-Pending	HK	16111750		1223748	Yes	
31924	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-544365	6253788	2016-531533	Yes	
31925	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2018-7005270	10-1969268	10-2018-0036804	Yes	
31926	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/026174	9992781	US-2016-0219541-A1	Yes	
31927	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/717546	10136447	US-2018-0020459-A1	Yes	
31928	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	CN	201480051969X	ZL2014800 519969X	105557052	Yes	
31929	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CTD	APP-Pending	EP	15156077?		3346740	Yes	
31930	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	16111237?		1223225	Yes	
31931	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647004844		201647004844	Yes	
31932	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-516873	6162330	2016-536818	Yes	
31933	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	PAT-Active	JP	2017-116474	6457596	2017-200210	Yes	
31934	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7008440	10-1855018	10-2016-0048852	Yes	
31935	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/026753	9826539	US-2016-0255615-A1	Yes	
31936	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/730287	9999063	US-2018-0035441-A1	Yes	
31937	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/962574	10251187	US-2018-0227932-A1	Yes	
31938	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A CELL RESELECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/859379	9930588	US-2016-0050597-A1		
31939	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A CELL RESELECTION	[redacted]	[redacted]	NP	APP-Pending	CN	201510393742X		105376822		
31940	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A CELL RESELECTION	[redacted]	[redacted]	NP	APP-Pending	DE	102015110138?		102015110138		
31941	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	14/551256	9397685	US-2016-0149584-A1		
31942	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	CN	201510690895?	ZL2015106 908950	105634459		
31943	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	PAT-Active	EP	15190314?	3024141	3024141		
31944	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	PAT-Active	DE	15190314?	3024141	3024141		
31945	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	PAT-Active	FR	15190314?	3024141	3024141		
31946	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	PAT-Active	GB	15190314?	3024141	3024141		
31947	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	PAT-Active	NL	15190314?	3024141	3024141		
31948	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	NP	APP-Pending	IN	5322/CHE/2015		5322/CHE/2015		
31949	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	TW	104134548	I578708	201631891		
31950	INTERPOLATOR SYSTEMS AND METHODS	[redacted]	[redacted]	DIV	PAT-Active	TW	105143052	I637599	201731215		
31951	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/856781	9450622	US-2016-0182103-A1		
31952	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201510815596?	ZL2015108 155950	105721366		
31953	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015119625?		102015119625		
31954	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	6053/CHE/2015		6053/CHE/2015		
31955	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104138140	I578691	201631888		
31956	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	[redacted]	[redacted]	PCT	PAT-Active	CN	201480045628?	ZL2014800 456281	105612752		
31957	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	[redacted]	[redacted]	FPR	APP-Pending	HK	16111338?		1223755		
31958	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	[redacted]	[redacted]	PCT	PAT-Active	US	15/022484	10003994	US-2016-0234809-A1		
31959	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	14/670789	9872233	US-2015-0351115-A1		
31960	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	PCT	PAT-Active	CN	201580022443?	ZL2015800 224433	106756186		
31961	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	EP	15802823?	3149993	3149993		
31962	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	AT	15802823?	3149993	3149993		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
31963	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	BE	158028233	3149993	3149993		
31964	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	CH	158028233	3149993	3149993		
31965	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	DE	158028233	########	3149993		
31966	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	EE	158028233	3149993	3149993		
31967	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	ES	158028233	3149993	3149993		
31968	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	FR	158028233	3149993	3149993		
31969	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	GB	158028233	3149993	3149993		
31970	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	GR	158028233	3149993	3149993		
31971	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	HU	158028233	3149993	3149993		
31972	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	IE	158028233	3149993	3149993		
31973	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	NL	158028233	3149993	3149993		
31974	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	EPT	PAT-Active	SE	158028233	3149993	3149993		
31975	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17103487.0		1229981		
31976	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-568415	6400732	2017-516418		
31977	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7030305	10-1850800	10-2016-0138556		
31978	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	NP	PAT-Active	US	14/704195	10070364	US-2016-0021584-A1		
31979	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	EPT	APP-Pending	EP	158241927		3172934		
31980	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	PCT	APP-Pending	IN	201647039643		201647039643		
31981	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569815	6362279	2017-528635		
31982	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7035205		10-2017-0007433		
31983	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580022568		106797284		
31984	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17109216.0		1235578		
31985	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/669906	9801228	US-2016-0323426-A1		
31986	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112016029906-0		112016029906-0		
31987	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580032293.4		106717105		
31988	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	17109594.2		1235980		
31989	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	201647040899		201647040899		
31990	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-521063	6353483	2017-521028		
31991	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7035844		10-2017-0007469		
31992	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580035906		106664639		
31993	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	FPR	APP-Pending	HK	17105506.0		1235971		
31994	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	EPT	APP-Pending	EP	15826440.8		3175648		
31995	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	APP-Pending	IN	201647039808		201647039808		
31996	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-569801	6371672	2017-520981		
31997	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7036456		10-2017-0012430		
31998	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	PAT-Active	US	15/115941	10080180	US-2017-0135024-A1		
31999	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	NP	PAT-Active	US	14/669243	9668095	US-2016-0037301-A1		
32000	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	BR	112016030229-0		112016030229-0		
32001	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	CNT	PAT-Active	US	15/591253	10264397	US-2017-0374517-A1		
32002	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580036192.4		106538004		
32003	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCD	APP-Pending	CN	201710995705.5		107734454		
32004	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	FPD	APP-Pending	HK	18109467.5		1250115		
32005	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	FPR	APP-Pending	HK	17107687.5		1234288		
32006	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	EPT	APP-Pending	EP	15827719.8		3175660		
32007	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Pending	IN	201647039826		201647039826		
32008	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-575556	6567573	2017-528804		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32009	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7036677	10-1790919	10-2017-0013333		
32010	APPARATUS COMPUTER-READABLE MEDIUM ANDMETHOD TO DETERMINE A USER EQUIPMENTLOCATION IN A CELLULAR NETWORK USINGSIGNALS FROM A WIRELESS LOCAL AREA NETWORK(WLAN)	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7029529	10-1935332	10-2017-0118257		
32011	METHOD FOR TRANSMITTING A PLURALITY OF UPLINK MESSAGES AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/670619	9621307	US-2016-0285591-A1		
32012	METHOD FOR TRANSMITTING A PLURALITY OF UPLINK MESSAGES AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	102016103212		102016103223		
32013	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/844044	9698837	US-2016-0112080-A1		
32014	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201510587490.6	ZL2015105874906	105530210		
32015	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102014113136.4		102014113136		
32016	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	4547/CHE/2015		4547/CHE/2015		
32017	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	NP	PAT-Active	US	14/570586	9276704			
32018	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	NP	PAT-Active	CN	201510781139.9	ZL2015107811399	105704074		
32019	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	EPA	PAT-Active	EP	15194403.0	3035622	3035622		
32020	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	EPA	PAT-Active	DE	15194403.0	3035622	3035622		
32021	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	EPA	PAT-Active	FR	15194403.0	3035622	3035622		
32022	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	EPA	PAT-Active	GB	15194403.0	3035622	3035622		
32023	MAXIMUM LIKELIHOOD SEQUENCE DETECTION IN THE PHASE DOMAIN	[redacted]	[redacted]	NP	PAT-Active	TW	104137183	I593258	201631939		
32024	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	CN	201580037162.5	ZL2015800371625	105637812		
32025	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	EPR	APP-Pending	HK	17107682.8		1234219		
32026	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	15828920.7		3178173		
32027	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7001628	10-1915417	10-2017-0020889		
32028	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	US	15/324574	10213704	US-2017-0215187-A1		
32029	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112017002541-8		112017002581-8	Yes	
32030	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CA	2954996		2954996	Yes	
32031	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580036782.7		106538022	Yes	
32032	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	CN	201810413324.6		108337737	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
32034	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	EPR	APP-Pending	HK	17108507.0		1234344	Yes	
32035	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15830501.1		3178281	Yes	
32036	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747001200		201747001200	Yes	
32037	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-505675	6532935	2017-523728	Yes	
32038	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7001314		10-2017-0019440	Yes	
32039	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	RU	2017103935	2678467	2017103925	Yes	
32040	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	PAT-Active	CN	201580037127.3	ZL2015800371273	106537849		
32041	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERSENCOUNTER PROBLEMS	[redacted]	[redacted]	EPR	APP-Pending	HK	17107636.8		1234228		
32042	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747001349		201747001349		
32043	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-509672	6370993	2017-532813		
32044	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7001680		10-2017-0023106		
32045	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	NP	APP-Pending	US	14/671998		US-2016-0044552-A1	Yes	
32046	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	BR	112017007543-8		112017002543-6	Yes	
32047	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	15830050.9		3178286	Yes	
32048	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	IN	201747000861		201747000861	Yes	
32049	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-502990	6458965	2017-523705	Yes	
32050	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7001169		10-2017-0018055	Yes	
32051	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/666662	9693278	US-2016-0044539-A1		
32052	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	CNT	PAT-Active	US	15/631947	10390261	US-2017-0289849-A1		
32053	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	15831948.3		3180941		
32054	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	EPR	APP-Pending	HK	17113538.3		1230847		
32055	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-508846	6386161	2017-523734		
32056	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	PCD	APP-Closed	JP	2017-124861		2017-201808		
32057	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580036470.6		106489246		
32058	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	EPR	APP-Pending	HK	17107639.3		1234229		
32059	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7001634	10-1926282	10-2017-0023101		

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32066	FDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/324441		US-2017-0223725-A1		
32061	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580037186S		106537842	Yes	
32062	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	1710754.15		1234230	Yes	
32063	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	15830463.4	3178199	3178199	Yes	
32064	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	AT	15830463.4	3178199	3178199	Yes	
32065	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	BE	15830463.4	3178199	3178199	Yes	
32066	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	CH	15830463.4	3178199	3178199	Yes	
32067	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	15830463.4	3178199	3178199	Yes	
32068	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EE	15830463.4	3178199	3178199	Yes	
32069	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	ES	15830463.4	3178199	3178199	Yes	
32070	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	15830463.4	3178199	3178199	Yes	
32071	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	15830463.4	3178199	3178199	Yes	
32072	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GR	15830463.4	3178199	3178199	Yes	
32073	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	HU	15830463.4	3178199	3178199	Yes	
32074	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	IE	15830463.4	3178199	3178199	Yes	
32075	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	15830463.4	3178199	3178199	Yes	
32076	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	SK	15830463.4	3178199	3178199	Yes	
32077	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	201747001438		201747001438	Yes	
32078	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7001641		10-2017-0021304	Yes	
32079	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/323505		US-2017-0150399-A1	Yes	
32080	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580038650S		106664549		
32081	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	FPR	APP-Pending	HK	1710950867		1235599		
32082	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	EPT	APP-Pending	EP	15813973		3189930		
	[redacted]										
32087	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7001448		10-2017-0018064		
32088	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	PCT	PAT-Active	US	15/326419	9813899	US-2017-0215065-A1		
32089	APPARATUS METHOD AND SYSTEM OF CONTROLLING COMMUNICATIONS OF A MULTI-RADIO DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/484672	9568658	US-2016-0088572-A1		
32090	RANDOM ACCESS PROCEDURE FOR HANDOVER	[redacted]	[redacted]	NP	PAT-Active	US	14/582364	9936534	US-2016-0192359-A1	Yes	
32091	RANDOM ACCESS PROCEDURE FOR HANDOVER	[redacted]	[redacted]	CNT	APP-Pending	US	15/877268		US-2019-0029048-A1	Yes	
32092	RANDOM ACCESS PROCEDURE FOR HANDOVER	[redacted]	[redacted]	PCT	APP-Pending	CN	201580066221X		107027383	Yes	
32093	RANDOM ACCESS PROCEDURE FOR HANDOVER	[redacted]	[redacted]	FPR	APP-Pending	HK	1711119212		1238466	Yes	
32094	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580003239?		106063330		
32095	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	APP-Pending	EP	15743786S		3100517		
32096	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	FPR	APP-Pending	HK	1710194?3		1228650		
32097	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-561997	6342514	2017-512034		
32098	CONTEXT-AWARE RESOURCE MANAGEMENT FOR VIDEO STREAMING SERVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/540312	9807592	US-2016-0142902-A1		
32099	CONTEXT-AWARE RESOURCE MANAGEMENT FOR VIDEO STREAMING SERVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	15859272S		3219106		
32100	NETWORK ASSISTED MMWAVE BEAM SYNCHRONIZATION AND ALIGNMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580059445S		107078782		
32101	NETWORK ASSISTED MMWAVE BEAM SYNCHRONIZATION AND ALIGNMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	18103132		1242853		
32102	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	NP	PAT-Active	US	14/563930	9602953	US-2016-0165606-A1		
32103	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	APP-Pending	CN	201580027882S		106416819		
32104	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	FPR	APP-Pending	HK	1710864.04		1233108		
32105	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	EPT	APP-Pending	EP	15867285?		3231251		
32106	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	APP-Pending	IN	201647039382		201647039382		
32107	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-571712	6423015	2017-525189		
32108	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7034238		10-2017-0006837		
32109	AN APPARATUS AND A METHOD FOR PREDICTING A FUTURE STATE OF AN ELECTRONIC COMPONENT	[redacted]	[redacted]	NP	APP-Pending	DE	102015118?943		102015118?894		
32110	APPARATUS AND A METHOD FOR PREDICTING A FUTURE STATE OF AN ELECTRONIC COMPONENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/751208		US-2018-0231601-A1		
32111	ACTIVE DIGITAL MODULATED SPUR CANCELLATION IN LTE - CA RF TRANSCEIVERS	[redacted]	[redacted]	NP	APP-Pending	DE	102015110273?		102015110273		
32112	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580003027?8		107867477		
32113	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	15/575867	10230473	US-2018-0159585-A1		
32114	NOISE-SHAPING CIRCUIT DIGITAL-TO-TIME CONVERTER ANALOG-TO-DIGITAL CONVERTER DIGITAL-TO-ANALOG CONVERTER FREQUENCY SYNTHESIZER TRANSMITTER RECEIVER TRANSCEIVER METHOD FOR SHAPING NOISE IN AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/856854	9590647	US-2016-0182072-A1		
32115	NOISE-SHAPING CIRCUIT DIGITAL-TO-TIME CONVERTER METHOD FOR SHAPING NOISE	[redacted]	[redacted]	NP	PAT-Active	CN	201510811660?4	ZL2015108116034	105721365		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32116	NOISE-SHAPING CIRCUIT DIGITAL TO TIME CONVERTER ANALOG TO DIGITAL CONVERTER DIGITAL TO ANALOG CONVERTER FREQUENCY SYNTHESIZER TRANSMITTER RECEIVER TRANSCEIVER METHOD FOR SHAPING NOISE IN AN INPUT SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	6094/CHE/2015		6094/CHE/2015		
32117	NOISE-SHAPING CIRCUIT DIGITAL-TO-TIME CONVERTER ANALOG-TO-DIGITAL CONVERTER DIGITAL-TO-ANALOG CONVERTER FREQUENCY SYNTHESIZER TRANSMITTER RECEIVER TRANSCEIVER METHOD FOR SHAPING NOISE IN AN INPUT SIGNAL	[redacted]	[redacted]	NP	PAT-Active	TW	104138141	I587636	201637362		
32118	SYSTEMS AND METHODS FOR SKEWING DC/DC CONVERTER PHASES TO MITIGATE SPURS	[redacted]	[redacted]	NP	PAT-Active	US	14/572075	9502964	US-2016-0172966-A1		
32119	SYSTEMS AND METHODS FOR SKEWING DC/DC CONVERTER PHASES TO MITIGATE SPURS	[redacted]	[redacted]	NP	PAT-Active	CN	201510754356.3	ZL2015107541563	105703613		
32120	SYSTEMS AND METHOD FOR SKEWING DC/DC CONVERTER PHASES TO MITIGATE SPURS	[redacted]	[redacted]	EPA	APP-Pending	EP	15193984.0		3035512		
32121	SYSTEMS AND METHODS FOR SKEWING DC/DC CONVERTER PHASES TO MITIGATE SPURS	[redacted]	[redacted]	NP	PAT-Active	TW	104137185	I590572	201637331		
32122	METHODS AND DEVICES FOR MULTI-DEVICE LINK AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	14/670967	10164871	US-2016-0285746-A1		
32123	METHODS AND DEVICES FOR MULTI-DEVICE LINK AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	TW	105105305	I610547	201642624		
32124	ANTENNA SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/671470	10109914	US-2016-0285159-A1		
32125	ANTENNA SYSTEM	[redacted]	[redacted]	NP	APP-Pending	CN	201610108470.9		106025513		
32126	ANTENNA SYSTEM	[redacted]	[redacted]	EPA	APP-Pending	EP	16157031.2		3073563		
32127	ANTENNA SYSTEM	[redacted]	[redacted]	NP	APP-Pending	IN	201614004357		201614004357		
32128	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	201580026257		106575993	Yes	
32129	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	EPR	APP-Pending	HK	17109504.1		1235970	Yes	
32130	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	EPT	APP-Pending	EP	15736888.7		3192324	Yes	
32131	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	APP-Pending	IN	201747003198		201747003198	Yes	
32132	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-506659	6435693	2017-529754	Yes	
32133	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7003529		10-2017-0028984	Yes	
32134	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	NP	PAT-Active	TW	104125645	I606710	201611560	Yes	
32135	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	PAT-Active	US	15/501407	10064242	US-2017-0238361-A1	Yes	
32136	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	NP	PAT-Active	US	14/578171	9663173	US-2016-0073326-A1		
32137	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580041765.2		106575290		
32138	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	EPR	APP-Pending	HK	17109365.9		1235964		
32139	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15838284.4		3189693		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
32142	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-510841	6479564	2017-527214		
32143	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7002936		10-2017-0029548		
32144	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	14/573132	9439069	US-2016-0183086-A1		
32145	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580061396.5		107113609		
32146	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	[redacted]	[redacted]	EPR	APP-Pending	HK	18102315.8		1243270		
32147	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/548702	9894553	US-2016-0150437-A1	Yes	
32148	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580055394.3		107079936	Yes	
32149	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	EPR	APP-Pending	HK	18101913.3		1242888	Yes	
32150	SYSTEMS APPARATUSES AND METHODS FOR MANAGING USER EQUIPMENT MOBILITY INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	14/592259	9913180	US-2016-0173398-A1		
32151	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR TRANSITION BETWEEN UNLICENSED AND LICENSED FREQUENCY BANDS	[redacted]	[redacted]	NP	PAT-Active	US	14/575589	9930652	US-2016-0183220-A1		
32152	SYSTEMS METHODS AND DEVICES FOR LTE WI-FI AND BLUETOOTH COEXISTENCE	[redacted]	[redacted]	NP	PAT-Active	US	14/579403	9730014	US-2016-0183282-A1		
32153	SOFT BUFFER MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/579974	9577793	US-2016-0088635-A1		
32154	RESOURCE ALLOCATION	[redacted]	[redacted]	NP	PAT-Active	US	14/581570	9603140	US-2016-0088593-A1		
32155	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER SPUR DITHERING	[redacted]	[redacted]	NP	PAT-Active	US	14/577885	9800435	US-2016-0182262-A1		
32156	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	NP	PAT-Active	CN	201510799808.5	ZL2015107998085	105721367		
32157	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	EPA	PAT-Active	EP	15194820.5	3035565	3035565		
32158	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	EPA	PAT-Active	DE	15194820.5	3035565	3035565		
32159	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	EPA	PAT-Active	FR	15194820.5	3035565	3035565		
32160	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	EPA	PAT-Active	GB	15194820.5	3035565	3035565		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32161	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER SPUR DITHERING	[redacted]	[redacted]	NP	APP-Pending	IN	6053/CHE/2015		6053/CHE/2015		
32162	APPARATUS AND METHOD FOR DIGITAL-TO-TIME CONVERTER CIRCUIT SPUR DITHERING	[redacted]	[redacted]	NP	PAT-Active	TW	104137718	I599205	201637497		
32163	DIGITAL TO ANALOG CONVERTER CELL FOR SIGNED OPERATION	[redacted]	[redacted]	NP	PAT-Active	US	14/571531	9379883	US-2016-0173269-A1		
32164	DIGITAL TO ANALOG CONVERTER CELL FOR SIGNED OPERATION	[redacted]	[redacted]	NP	PAT-Active	CN	201510760258767	ZL2015107602567	105703779		
32165	DIGITAL TO ANALOG CONVERTER CELL FOR SIGNED OPERATION	[redacted]	[redacted]	EPA	APP-Pending	EP	15193990?		3035557		
32166	DIGITAL TO ANALOG CONVERTER CELL FOR SIGNED OPERATION	[redacted]	[redacted]	NP	APP-Pending	IN	5989/CHE/2015		5989/CHE/2015		
32167	DIGITAL TO ANALOG CONVERTER CELL FOR SIGNED OPERATION	[redacted]	[redacted]	NP	PAT-Active	TW	104137348	I578712	201637371		
32168	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	14/863640	9571135	US-2016-0277065-A1		
32169	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	NP	PAT-Active	CN	201610095232?	ZL2016101003329	105991096		
32170	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	EP	161545793	3070839	3070839		
32171	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	DE	161545793	3070839	3070839		
32172	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	FR	161545793	3070839	3070839		
32173	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	GB	161545793	3070839	3070839		
32174	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	NL	161545793	3070839	3070839		
32175	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	[redacted]	[redacted]	NP	APP-Pending	IN	201644002685		201644002685		
32176	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	NP	PAT-Active	US	14/686506	10165472	US-2016-0100336-A1		
32177	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580045940?		106605429		
32178	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	FPR	APP-Pending	HK	17105440?		1235966		
32179	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	EPT	APP-Pending	EP	15796035?		3202182		
32180	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747005897		201747005897		
32181	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-510838	6437634	2017-531367		
32182	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005969		10-2017-0038805		
32183	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	PAT-Active	RU	2017106810	2658333			
32184	METHOD AND APPARATUS FOR CORRECTING INCONVENIENT POWER AMPLIFIER LOAD CHARACTERISTICS IN AN ENVELOPE TRACKING BASED SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/565617	9425742	US-2016-0173030-A1		
32185	METHOD AND APPARATUS FOR CORRECTING INCONVENIENT POWER AMPLIFIER LOAD CHARACTERISTICS IN AN ENVELOPE TRACKING BASED SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	201510760332?8	ZL2015107632586	105703719		
32186	METHOD AND APPARATUS FOR CORRECTING INCONVENIENT POWER AMPLIFIER LOAD CHARACTERISTICS IN AN ENVELOPE TRACKING BASED SYSTEM	[redacted]	[redacted]	EPA	APP-Pending	EP	153939543		3032738		
[redacted]											
[redacted]											
[redacted]											
[redacted]											
32191	METHOD AND APPARATUS FOR CORRECTING INCONVENIENT POWER AMPLIFIER LOAD CHARACTERISTICS IN AN ENVELOPE TRACKING BASED SYSTEM	[redacted]	[redacted]	NP	APP-Pending	IN	5631/CHE/2015		5631/CHE/2015		
32192	METHOD AND APPARATUS FOR CORRECTING INCONVENIENT POWER AMPLIFIER LOAD CHARACTERISTICS IN AN ENVELOPE TRACKING BASED SYSTEM	[redacted]	[redacted]	NP	PAT-Active	TW	104136519	I575866	201633697		
32193	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	NP	PAT-Active	US	14/643239	9800141	US-2016-0268889-A1		
32194	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	NP	PAT-Active	CN	201610075267?	ZL2016100752675	105978331		
32195	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	EPA	PAT-Active	EP	161523279	3068045	3068045		
32196	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	EPA	PAT-Active	DE	161523279	3068045	3068045		
32197	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	EPA	PAT-Active	FR	161523279	3068045	3068045		
32198	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	EPA	PAT-Active	GB	161523279	3068045	3068045		
32199	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	EPA	PAT-Active	NL	161523279	3068045	3068045		
32200	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	[redacted]	[redacted]	NP	APP-Pending	IN	7077/CHE/2015		7077/CHE/2015		
32201	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580047026?		107005932	Yes	
32202	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18100937?		1241638	Yes	
32203	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	158469825		3202182	Yes	
32204	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747005910		201747005910	Yes	
32205	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-512052	6386168	2017-527217	Yes	
32206	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005748		10-2017-0043305	Yes	
32207	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	15/508331	10271257	US-2017-0311217-A1	Yes	
32208	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580062858?		106575991	Yes	
32209	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17309509?		1233924	Yes	
32210	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158416677		3195496	Yes	
32211	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747003760		201747003760	Yes	
32212	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-506910	6404453	2017-532814	Yes	
32213	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005723		10-2017-0050608	Yes	
32214	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/503477	10362525	US-2017-0230898-A1	Yes	
32215	SYSTEM AND METHOD OF MTC DEVICE OPERATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/711847	9961657	US-2016-0095076-A1	Yes	
32216	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	NP	PAT-Active	US	14/704427	9516220	US-2016-0100099-A1	Yes	
32217	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Pending	BR	112017004323-8		112017004323-8	Yes	
32218	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	CNT	PAT-Active	US	15/365746	9832369	US-2017-0085782-A1	Yes	
32219	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	CNT	PAT-Active	US	15/803106	10148868	US-2018-0063563-A1	Yes	
32220	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	CNT	APP-Pending	US	16/152295		US-2019-0037131-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32221	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	EPT	APP-Pending	EP	15751255		3202137	Yes	
32222	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Pending	IN	201747005915		201747005915	Yes	
32223	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-511998	6859764	2017-536713	Yes	
32224	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-116662		2018-186518	Yes	
32225	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7006065	10-1936984	10-2017-0049512	Yes	
32226	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2019-7000238		10-2019-0006069	Yes	
32227	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	NP	PAT-Active	TW	106128848	1590664	201533776	Yes	
32228	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	DIV	PAT-Active	TW	106112611	1630825	201782847	Yes	
32229	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	NP	PAT-Active	US	14/710975	9955356	US-2016-0094986-A1	Yes	
32230	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580004544.01		106664529	Yes	
32231	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	FPR	APP-Pending	HK	17309508.7		1235976	Yes	
32232	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	EPT	PAT-Active	EP	15844681.5	3198778	3198778	Yes	
32233	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	EPT	PAT-Active	DE	15844681.5	88888888	3198778	Yes	
32234	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	EPT	PAT-Active	FR	15844681.5	3198778	3198778	Yes	
32235	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	EPT	PAT-Active	GB	15844681.5	3198778	3198778	Yes	
32236	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	EPT	PAT-Active	NL	15844681.5	3198778	3198778	Yes	
32237	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7004805		10-2017-0037994	Yes	
32238	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	NP	PAT-Active	US	14/671803	9713117	US-2016-0295080-A1	Yes	
32239	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580004405.74		106662634	Yes	
32240	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	FPR	APP-Pending	HK	17109358.8		1235863	Yes	
32241	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	EPT	APP-Pending	EP	15757399.5		3188897	Yes	
32242	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580004405.89		106664518	Yes	
32243	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	FPR	APP-Pending	HK	17109266.9		1235607	Yes	
32244	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	EPT	APP-Pending	EP	15757400.9		3188894	Yes	
32245	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7004898		10-2017-0036736	Yes	
32246	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580045512.3		106605453		
32247	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17109507.8		1235975		
32248	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15846164.2		3198957		
32249	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/505387	10154431	US-2017-0279942-A1		
32250	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580045555.1		106717067		
32251	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	FPR	APP-Pending	HK	17109506.9		1235972		
32252	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	EPT	APP-Pending	EP	15846146.9		3198886		
32253	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005024		10-2017-0036743		
32254	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	US	15/506013	10306550	US-2017-0245208-A1		
32255	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/671315	9888471	US-2016-0295512-A1	Yes	
32256	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112017003431-0		112017003431-0	Yes	
32257	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	15/899595		US-2018-0184423-A1	Yes	
32258	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580046042.8		106576358	Yes	
32259	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17109354.2		1235959	Yes	
32260	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	EP	15747332.3	3198968	3198968	Yes	
32261	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	DE	15747332.3	3198968	3198968	Yes	
32262	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	FR	15747332.3	3198968	3198968	Yes	
32263	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	GB	15747332.3	3198968	3198968	Yes	
32264	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	EPT	PAT-Active	NL	15747332.3	3198968	3198968	Yes	
32265	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	ID	P00201700954		2017/13343	Yes	
32266	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004228		201747004228	Yes	
32267	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-516401	6449450	2017-530634	Yes	
32268	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCD	APP-Pending	KR	10-2018-7017835		10-2018-0085095	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
32270	CONSTRUCTION OF DATA TRANSMISSION PATTERNS FOR D2DCOMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	TW	104127171	I589175	201613415	Yes	
32271	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	APP-Pending	BR	112017003265-1		112017003265-1	Yes	
32272	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	PAT-Active	CN	201580044805.5	ZL2015800440805	106575996	Yes	
32273	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	FPR	APP-Pending	HK	17109481.7		1235922	Yes	
32274	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	EPT	APP-Pending	EP	15843194.0		3198747	Yes	
32275	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004572		201747004572	Yes	
32276	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7004980	10-1838055	10-2017-0035694	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32277	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	NP	PAT-Active	TW	104127493	I597996	201813413	Yes	
32278	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	DIV	PAT-Active	TW	106121105	I661742	201737755	Yes	
32279	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	APP-Pending	US	15/501152		US-2017-0230951-A1	Yes	
32280	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/668655	9425875	US-2016-0286280-A1	Yes	
32281	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	BR	112017003222-8		112017003222-8	Yes	
32282	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/216378	10156408	US-2016-0329938-A1	Yes	
32283	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Pending	US	16/031438		US-2018-0351607-A1	Yes	
32284	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	15747316S		3198780	Yes	
32285	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004581		201747004581	Yes	
32286	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Pending	JP	2018-113080		2018-180928	Yes	
32287	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005064		10-2017-0034430	Yes	
32288	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	MX	MX/A/2017/001940		MX/A/2017/001940	Yes	
32289	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	PAT-Active	RU	2017105769	2658341		Yes	
32290	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCD	PAT-Active	RU	2018118837	2689312	2018118837	Yes	
32291	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/723284	9965465	US-2016-0100382-A1		
32292	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EP	157483660	3202073	3202073		
32293	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	AT	157483660	3202073	3202073		
32294	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	BE	157483660	3202073	3202073		
32295	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	CH	157483660	3202073	3202073		
32296	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	DE	157483660	3202073	3202073		
32297	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	EE	157483660	3202073	3202073		
32298	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	ES	157483660	3202073	3202073		
32299	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	FR	157483660	3202073	3202073		
32300	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GB	157483660	3202073	3202073		
32301	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	GR	157483660	3202073	3202073		
32302	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	HU	157483660	3202073	3202073		
32303	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	IE	157483660	3202073	3202073		
32304	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	NL	157483660	3202073	3202073		
32305	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	EPT	PAT-Active	SE	157483660	3202073	3202073		
32306	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005883		10-2017-0039269		
32307	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	APP-Pending	BR	112017003859-5		112017003859-5	Yes	
32308	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	PAT-Active	CA	2958300	2958300	2958300	Yes	
32309	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580054431O		107005875	Yes	
32310	INCREASED CARRIER MONITORING	[redacted]	[redacted]	EPR	APP-Pending	HK	18300946S		1241639	Yes	
32311	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	APP-Pending	IN	201747005185		201747005185	Yes	
32312	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-508077	6481952	2017-530902	Yes	
32313	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7006957		10-2017-0036738	Yes	
32314	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	PAT-Active	RU	2017105871	2674437	2017105871	Yes	
32315	INCREASED CARRIER MONITORING	[redacted]	[redacted]	NP	PAT-Active	TW	104127733	I623237	201803815	Yes	
32316	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	PAT-Active	US	15/512822	10237680	US-2017-0251511-A1	Yes	
32317	INCREASED CARRIER MONITORING	[redacted]	[redacted]	CNT	APP-Pending	US	16/222904		US-2019-0141469-A1	Yes	
32318	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	BR	112017003463-8		112017003463-8	Yes	
32319	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580045183I		106797323	Yes	
32320	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	EPR	APP-Pending	HK	17309087S		1235566	Yes	
32321	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157587193		3198797	Yes	
32322	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747004582		201747004582	Yes	
32323	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-508667	6478134	2017-532822	Yes	
32324	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7006352		10-2017-0037623	Yes	
32325	VIRTUALIZED NETWORK FUNCTION MANAGER	[redacted]	[redacted]	NP	PAT-Active	TW	104127163	I590615	201633745	Yes	
32326	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/510998		US-2017-0257276-A1	Yes	
32327	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/408231		US-2019-0334777-A1	Yes	
32328	METHOD FOR MITIGATING INTERFERENCE AND INTERFERENCE MITIGATING RECEIVER	[redacted]	[redacted]	NP	APP-Pending	DE	102015110211		102015110211		
32329	METHOD FOR MITIGATING INTERFERENCE AND INTERFERENCE MITIGATING RECEIVER	[redacted]	[redacted]	PCT	APP-Pending	CN	201580030095S		107667478		
32330	METHOD FOR MITIGATING INTERFERENCE AND INTERFERENCE MITIGATING RECEIVER	[redacted]	[redacted]	PCT	APP-Pending	US	15/738468		US-2019-0319685-A1		
32331	MECHANISMS FOR CO-EXISTENCE OF LTE-U NETWORK WITH ITSELF AND WITH OTHER TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201480057753G		105659659		
32332	MECHANISMS FOR CO-EXISTENCE OF LTE-U NETWORK WITH ITSELF AND WITH OTHER TECHNOLOGIES	[redacted]	[redacted]	EPT	APP-Pending	EP	14865451O		3075187		
32333	MECHANISMS FOR CO-EXISTENCE OF LTE-U NETWORK WITH ITSELF AND WITH OTHER TECHNOLOGIES	[redacted]	[redacted]	EPR	APP-Pending	HK	16312896T		1224879		
32334	MECHANISMS FOR CO-EXISTENCE OF LTE-U NETWORK WITH ITSELF AND WITH OTHER TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	US	14/917931		US-2016-0269978-A1		
32335	APPARATUS SYSTEM AND METHOD OF DIFFERENTIATING BETWEEN AN IMS CONNECTION AND A NON-IMS CONNECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/864976	10015203	US-2016-0127422-A1		
32336	APPARATUS SYSTEM AND METHOD OF DIFFERENTIATING BETWEEN AN IMS CONNECTION AND A NON-IMS CONNECTION	[redacted]	[redacted]	NP	APP-Pending	CN	201510633188S		105577636		
32337	APPARATUS SYSTEM AND METHOD OF DIFFERENTIATING BETWEEN AN IMS CONNECTION AND A NON-IMS CONNECTION	[redacted]	[redacted]	NP	APP-Pending	DE	102015012569		102015012569		
32338	VOLUNTARY ACCESS BARRING	[redacted]	[redacted]	EPT	APP-Pending	EP	15807742O		3238465		
[redacted]	[redacted]										
32381	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/580024	9775151	US-2016-0020891-A1	Yes	

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
12342	SYSTEM AND METHOD FOR TDD COMMUNICATIONS			PCT	PAT-Active	CN	201580033559	ZL2015800 3355559	106471759	Yes	
12343	SYSTEM AND METHOD FOR TDD COMMUNICATIONS			FPR	APP-Pending	HK	17107141		1234220	Yes	
12344	SYSTEM AND METHOD FOR TDD COMMUNICATIONS			PCT	PAT-Active	JP	2016-570086	6291673	2017-528934	Yes	
12345	SYSTEM AND METHOD FOR TDD COMMUNICATIONS			PCT	APP-Pending	KR	10-2016-7035185		10-2017-0007432	Yes	
12346	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			NP	PAT-Active	US	14/671829	10070357	US-2016-0295036-A1	Yes	
12347	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			PCT	APP-Pending	CN	201580044017X		106576228	Yes	
12348	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			FPR	APP-Pending	HK	17109443.5		1235967	Yes	
12349	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	EP	15762865.7	3198941	3198941	Yes	
12350	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	AT	15762865.2	3198941	3198941	Yes	
12351	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	BE	15762865.2	3198941	3198941	Yes	
12352	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	CH	15762865.2	3198941	3198941	Yes	
12353	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	DE	15762865.7	602015000	3198941	Yes	
12354	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	EE	15762865.2	3198941	3198941	Yes	
12355	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	ES	15762865.2	3198941	3198941	Yes	
12356	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	FR	15762865.2	3198941	3198941	Yes	
12357	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	GB	15762865.2	3198941	3198941	Yes	
12358	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	GR	15762865.2	3198941	3198941	Yes	
12359	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	HU	15762865.2	3198941	3198941	Yes	
12360	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	IE	15762865.2	3198941	3198941	Yes	
12361	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	NL	15762865.2	3198941	3198941	Yes	
12362	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			EPT	PAT-Active	SK	15762865.2	3198941	3198941	Yes	
12363	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			PCT	APP-Pending	IN	201747005221		201747005221	Yes	
12364	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			PCT	PAT-Active	JP	2017-516297	6386176	2017-529801	Yes	
12365	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE			PCT	APP-Pending	KR	10-2017-7004966		10-2017-0036739	Yes	
12366	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE			NP	PAT-Active	US	14/718043	9867056	US-2016-0100404-A1		
12367	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE			CNT	PAT-Active	US	15/854824	10341876	US-2018-0317094-A1		
12368	COVERAGE CONSTRAINED DEVICES AND PAGING METHOD			NP	PAT-Active	US	14/706152	9768788	US-2016-0100380-A1		
12369	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			NP	PAT-Active	US	14/668663	10129774	US-2016-0105809-A1	Yes	
12370	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	PAT-Active	AU	2015328644	2015328644	2015328644	Yes	
12371	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	APP-Pending	BR	112017004390-4		112017004390-4	Yes	
12372	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	APP-Pending	CN	201580074250		106715324	Yes	
12373	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			FPR	APP-Pending	HK	17105660.4		1235937	Yes	
12374	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			EPT	APP-Pending	EP	15747698.7		3205053	Yes	
12375	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	APP-Pending	IN	201747006461		201747005461	Yes	
12376	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	PAT-Active	JP	2017-515902	6403879	2017-536722	Yes	
12377	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	PAT-Active	KR	10-2017-7005560	10-1973874	10-2017-0046095	Yes	
12378	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			PCT	PAT-Active	RU	2017107800	2666841		Yes	
12379	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			NP	PAT-Active	TW	104129203	I577208	201625027	Yes	
12380	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS			DIV	PAT-Active	TW	106144235	I607660	201731316	Yes	
12381	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			NP	PAT-Active	US	14/701380	10110652	US-2016-0105478-A1		
12382	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			PCT	APP-Pending	CN	201580066724		107079177		
12383	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			FPR	APP-Pending	HK	18100923.2		1241618		
12384	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			PCT	APP-Pending	IN	201747006464		201747006464		
12385	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			PCT	PAT-Active	JP	2017-530657	6358638	2017-535098		
12386	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			PCT	APP-Pending	KR	10-2017-7008780		10-2017-0044334		
12387	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION			NP	PAT-Active	TW	104125158	I591959	201626774		
12388	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			PCD	APP-Pending	CN	201610293035		108501085		
[redacted]											
12390	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	EP	14856919.7	3064012	3064012		
12391	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	AT	14856919.7	3064012	3064012		
12392	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	BE	14856919.7	3064012	3064012		
12393	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	CH	14856919.7	3064012	3064012		
12394	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	DE	14856919.7	602014045	3064012		
12395	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	EE	14856919.7	3064012	3064012		
12396	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	ES	14856919.7	3064012	3064012		
12397	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	FR	14856919.7	3064012	3064012		
12398	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	GB	14856919.7	3064012	3064012		
12399	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	GR	14856919.7	3064012	3064012		
12400	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	HU	14856919.7	3064012	3064012		
12401	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	IE	14856919.7	3064012	3064012		
12402	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	NL	14856919.7	3064012	3064012		
12403	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			EPT	PAT-Active	SK	14856919.7	3064012	3064012		
12404	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			PCT	PAT-Active	US	15/026788	9867206	US-2016-0255640-A1		
12405	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			CNT	PAT-Active	US	15/862181	10075966	US-2018-0199352-A1		
12406	DATA THROUGHPUT FOR CELL-EDGE USERS IN A LTE NETWORK USING DOWN-LINK REPEATERS AND UP-LINK MARO RELAYS			NP	PAT-Active	US	13/324595	8918697	US-2012-0159279-A1		
12407	RELAY NODE AND METHOD FOR RELAY NODE OPERATION WITH IMPROVED DATA THROUGHPUT FOR CELL-EDGE USERS			CNT	PAT-Active	US	14/565181	9300460	US-2015-0163023-A1		
12408	DATA THROUGHPUT FOR CELL-EDGE USERS IN A LTE NETWORK USING DOWN-LINK REPEATERS AND UP-LINK MARO RELAYS			CNT	PAT-Active	US	15/067302	9578766	US-2016-0269969-A1		
12409	RELAY NODE OPERATION WITH IMPROVED DATA THROUGHPUT			CNT	PAT-Active	US	15/618214	10334503	US-2017-0375152-A1		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
											214; P74947PCT - 12/13/2011 - PCT/US2011
12410	IMPROVING DATA THROUGHPUT FOR CELL-EDGE USERS IN AN LTE NETWORK	[redacted]	[redacted]	CNT	PAT-Active	US	15/823656	10390283	US-2018-0092023-A1		
12411	DATA THROUGHPUT FOR CELL-EDGE USERS IN AN LTE NETWORK	[redacted]	[redacted]	CNT	APP-Pending	US	16/513938				
12412	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580048043X		107079329		
12413	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	FPR	APP-Pending	HK	181018455		1242501		
12414	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	EPT	PAT-Active	EP	158508911	3207738	3207738		
12415	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	EPT	PAT-Active	DE	158508911	3207738	3207738		
12416	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	EPT	PAT-Active	FR	158508911	3207738	3207738		
12417	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	EPT	PAT-Active	GB	158508911	3207738	3207738		
12418	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	EPT	PAT-Active	NL	158508911	3207738	3207738		
12419	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7007075		10-2017-0044674		
12420	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800518583		107006058		
12421	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC)DEVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	181004228		1241193		
12422	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	IN	201747008632		201747008632		
12423	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC)DEVICES	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-514633	6481908	2017-535115		
12424	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7007768		10-2017-0044705		
12425	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/514444		US-2017-0251516-A1		
12426	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	NP	PAT-Active	US	14/705669	9699800	US-2016-0119939-A1		
12427	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	PCT	APP-Pending	CN	201580050033X		107079346		
12428	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	FPR	APP-Pending	HK	181018954		1242885		
12429	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	EPT	APP-Pending	EP	157753120		3210412		
12430	SYSTEMS METHODS AND APPARATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	PCT	APP-Pending	IN	201747008633		201747008633		
12431	SYSTEMS METHODS AND APPARATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7007755		10-2017-0045281		
12432	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	[redacted]	[redacted]	NP	PAT-Active	TW	104129008	I600297	201616837		
12433	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800494875		106797609	Yes	
12434	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOPMILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	FPR	APP-Pending	HK	171095899		1235979	Yes	
12435	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	EPT	APP-Pending	EP	157903949		3210435	Yes	
12436	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7007695		10-2017-0044695	Yes	
12437	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE-TO-DEVICE (D2D) DISCOVERY MESSAGES	[redacted]	[redacted]	PCT	APP-Pending	CN	2015800440165		107079495		
12438	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE-TO-DEVICE (D2D) DISCOVERY MESSAGES	[redacted]	[redacted]	FPR	APP-Pending	HK	181018963		1242886		
12439	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE-TO-DEVICE (D2D) DISCOVERY MESSAGES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7005053		10-2017-0036744		
12440	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE-TO-DEVICE (D2D) DISCOVERY MESSAGES	[redacted]	[redacted]	PCT	APP-Pending	US	15/505887		US-2017-0280482-A1		
12441	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE	[redacted]	[redacted]	NP	APP-Pending	US	14/671994		US-2016-0286430-A1		
12442	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE	[redacted]	[redacted]	NP	APP-Pending	CN	2016101097889		106028399		
12443	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE	[redacted]	[redacted]	NP	APP-Pending	IN	201644005678		201644005678		
12444	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE	[redacted]	[redacted]	NP	PAT-Active	TW	105105649	I620450	201644294		
12445	POWER CONSERVATION VIA GNSS-WIRELESS ACTIVITY SYNCHRONIZATION	[redacted]	[redacted]	NP	PAT-Active	US	14/721938	10168433	US-2016-0349378-A1		
12446	DISCRETE FILTER HAVING A TAP SELECTION CIRCUIT	[redacted]	[redacted]	DIV	PAT-Active	US	11/488566	7412471	US-2006-0259532-A1		
12447	SQUARE ROOT RAISED COSINE SYMMETRIC FILTER FOR MOBILE TELECOMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Closed	US	09/429058	6731706			
12448	SQUARE ROOT RAISED COSINE SYMMETRIC FILTER FOR MOBILE TELECOMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	10/793978	9178494	US-2004-0172433-A1		
12449	INTER-CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	13/556126	8971901	US-2013-0090120-A1		
12450	APPARATUS FOR AN ENHANCED NODE B FOR INTER-CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	14/621775	9635676	US-2015-0237637-A1		
12451	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	CN	2012800461280	ZL2012800461280			
12452	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EP	127414548	2735190	2735190		
12453	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	AT	127414548	2735190	2735190		
12454	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	BE	127414548	2735190	2735190		
12455	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	CH	127414548	2735190	2735190		
12456	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	DE	127414548	2735190	2735190		
12457	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	EE	127414548	2735190	2735190		
12458	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	ES	127414548	2735190	2735190		
12459	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	FR	127414548	2735190	2735190		
12460	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GB	127414548	2735190	2735190		
12461	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	GR	127414548	2735190	2735190		
12462	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	HU	127414548	2735190	2735190		
12463	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	IE	127414548	2735190	2735190		
12464	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	NL	127414548	2735190	2735190		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32465	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	EPT	PAT-Active	SK	127414546	2735190	2735190		
32466	INTER-CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2014-522933	6068663	2014-525036		
32467	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	PAT-Active	US	13/536131	9883431	US-2013-0005839-A1		
32468	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	PAT-Active	EP	12741453O	2735194	2735194		
32469	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	NP	PAT-Active	US	14/706020	9913306	US-2016-0330778-A1		
32470	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	NP	APP-Pending	CN	201610197652.2		106131894		
32471	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	EPA	PAT-Active	EP	161641279	3091784	3091784		
32472	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	EPA	PAT-Active	DE	161641279	3091784	3091784		
32473	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	EPA	PAT-Active	FR	161641279	3091784	3091784		
32474	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	EPA	PAT-Active	GB	161641279	3091784	3091784		
32475	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	EPA	PAT-Active	NL	161641279	3091784	3091784		
32476	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	[redacted]	[redacted]	NP	APP-Pending	IN	201644011835		201644011835		
32477	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	NP	PAT-Active	US	14/693853	10075864	US-2016-0007350-A1	Yes	
32478	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	EPT	APP-Pending	EP	158155523		3163924	Yes	
32479	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-572695	6426207	2017-517985	Yes	
32480	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2016-7033401	10-1695504	10-2016-0147029	Yes	
32481	SYSTEM AND METHOD TO ADDRESS RESOURCE COLLISION FOR ASYMMETRIC REGION ALLOCATION	[redacted]	[redacted]	NP	PAT-Active	US	14/692510	9687822	US-2016-0128055-A1	Yes	
32482	SYSTEM AND METHOD TO ADDRESS RESOURCE COLLISION FOR ASYMMETRIC REGION ALLOCATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157848278		3216153	Yes	
32483	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL IN MACHINE-TYPE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	157982802		3216160		
32484	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL IN MACHINE-TYPE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/520981	10296372	US-2018-0026759-A1		
32485	USER EQUIPMENT AND METHODS FOR CSI MEASUREMENTS WITH REDUCED BANDWIDTH SUPPORT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580056684.3		107005297		
32486	USER EQUIPMENT AND METHODS FOR CSI MEASUREMENTS WITH REDUCED BANDWIDTH SUPPORT	[redacted]	[redacted]	EPR	APP-Pending	HK	18100424.5		1241151		
32487	D2D COMMUNICATION DEVICES AND METHOD OF TRANSMISSION FOR OVERLAPPED D2D RESOURCE POOLS	[redacted]	[redacted]	NP	PAT-Active	US	14/659340	9888508	US-2016-0135239-A1	Yes	
32488	D2D COMMUNICATION DEVICES AND METHOD OF TRANSMISSION FOR OVERLAPPED D2D RESOURCE POOLS	[redacted]	[redacted]	EPT	APP-Pending	EP	158568923		3116294	Yes	
32489	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	NP	PAT-Active	US	14/670638	9838957	US-2016-0135120-A1		
32490	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580055418.5		106797607		
32491	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	EPR	APP-Pending	HK	17109444.4		1233958		
32492	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	EPT	APP-Pending	EP	158580779		3216275		
32493	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-540547	6449471	2017-537568		
32494	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7010649		10-2017-0057396		
32495	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/747085	10104705	US-2016-0128110-A1		
32496	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580058134		107079511		
32497	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE	[redacted]	[redacted]	EPR	APP-Pending	HK	18100922.3		1241637		
32498	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	PCT	APP-Pending	CN	201580057459		107078853	Yes	
32499	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	EPR	APP-Pending	HK	18100425.5		1241158	Yes	
32500	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	EPT	APP-Pending	EP	15857380.6		3216149	Yes	
32501	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	PCT	APP-Pending	IN	201747013588		201747013588	Yes	
32502	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-543297		2017-538371	Yes	
32503	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7010682		10-2017-0062492	Yes	
32504	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	PCT	PAT-Active	US	15/517430	10172127	US-2017-0303248-A1	Yes	
32505	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	[redacted]	[redacted]	CNT	APP-Closed	US	16/192371		US 2020-0305131 A1	Yes	
32506	USER EQUIPMENT AND METHOD FOR COMMUNICATING ON CELLS CONFIGURED FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	APP-Pending	EP	158567588		3216136	Yes	
32507	COMPUTING APPARATUS WITH CROSS-SUBFRAME SCHEDULING	[redacted]	[redacted]	NP	PAT-Active	US	14/711701	9800387	US-2016-0134403-A1	Yes	
32508	COMPUTING APPARATUS WITH CROSS-SUBFRAME SCHEDULING	[redacted]	[redacted]	EPT	APP-Pending	EP	15784838.3		3216154	Yes	
32509	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE	[redacted]	[redacted]	NP	PAT-Active	US	14/753158	9648582	US-2016-0135141-A1	Yes	
32510	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580065974		107258105	Yes	
32511	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE	[redacted]	[redacted]	EPR	APP-Pending	HK	18104867		1246557	Yes	
32512	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR CHANNEL QUALITY INDICATOR (CQI) FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	14/670692	9450682	US-2016-0142123-A1	Yes	
32513	AN APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580056257.3		107079047		
32514	AN APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION	[redacted]	[redacted]	EPR	APP-Pending	HK	18100427.3		1241169		
32515	SYSTEMS APPARATUSES AND METHODS FOR PROCESSING RANDOM ACCESS RESPONSE MESSAGES FOR COVERAGE CONSTRAINED DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/698105	9730249	US-2016-0143059-A1		
32516	SYSTEMS APPARATUSES AND METHODS FOR PROCESSING RANDOM ACCESS RESPONSE MESSAGES FOR COVERAGE CONSTRAINED DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580056788.0		107079598		
32517	SYSTEMS APPARATUSES AND METHODS FOR PROCESSING RANDOM ACCESS RESPONSE MESSAGES FOR COVERAGE CONSTRAINED DEVICES	[redacted]	[redacted]	EPR	APP-Pending	HK	18100831.4		1241696		
32518	LISTEN BEFORE TALK (LBT) DESIGN FOR UPLINK LICENSED ASSISTED ACCESS (LAA) OPERATION IN UNLICENSED BAND	[redacted]	[redacted]	PCT	APP-Pending	CN	201580056359.3		107079898		
32519	LISTEN BEFORE TALK (LBT) DESIGN FOR UPLINK LICENSED ASSISTED ACCESS (LAA) OPERATION IN UNLICENSED BAND	[redacted]	[redacted]	EPR	APP-Pending	HK	18100428.2		1241196		
32520	LISTEN BEFORE TALK (LBT) DESIGN FOR UPLINK LICENSED ASSISTED ACCESS (LAA) OPERATION IN UNLICENSED BAND	[redacted]	[redacted]	EPT	APP-Pending	EP	158015843		3222102		
32521	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/704848	9635574	US-2016-0142926-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32522	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	BR	112017009702-8		112017009702-8	Yes	
32523	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	15/452153	9800395	US-2017-0180106-A1	Yes	
32524	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	15/694617	9942023	US-2018-0013537-A1	Yes	
32525	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	15/902845	10200182	US-2018-0183562-A1	Yes	
32526	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	CNT	PAT-Active	US	16/103773	10348478	US-2019-0007184-A1	Yes	
32527	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580056763.0		107210872	Yes	
32528	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCD	APP-Pending	CN	201710778766.8		107592192	Yes	
32529	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	FPD	APP-Pending	HK	18108574.7		1249298	Yes	
32530	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	18103243.9		1248858	Yes	
32531	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	15791685.2		3221992	Yes	
32532	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	EPD	APP-Pending	EP	17189069.2		3267615	Yes	
32533	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	201747013678		201747013678	Yes	
32534	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-526913		2017-535205	Yes	
32535	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7011923	10-1968287	10-2017-0063914	Yes	
32536	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCD	PAT-Active	KR	10-2017-7024697	10-1995588	10-2017-0104642	Yes	
32537	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	NP	PAT-Active	TW	104133705	I587713	201628428	Yes	
32538	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	DIV	PAT-Active	TW	106109558	I630830	201735680	Yes	
32539	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/670496	9560571	US-2016-0286454-A1		
32540	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201610109075.2		105828413		
32541	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	16154714.8	3073785	3073785		
32542	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	16154714.8	3073785	3073785		
32543	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	16154714.8	3073785	3073785		
32544	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	16154714.8	3073785	3073785		
32545	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	201644004678		201644004678		
32546	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	TW	105105648	I600340	201642700		
32547	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	NP	PAT-Active	US	14/993157	10044533	US-2016-0248512-A1		
32548	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	NP	PAT-Active	CN	201610044519.9	ZL2016100445199	105915474		
32549	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	NP	APP-Pending	DE	102015102605.8		102015102605		
32550	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	EPA	PAT-Active	EP	16151580.4	3062447	3062447		
32551	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	EPA	PAT-Active	DE	16151580.4	########	3062447		
32552	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	EPA	PAT-Active	FR	16151580.4	3062447	3062447		
32553	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	EPA	PAT-Active	GB	16151580.4	3062447	3062447		
32554	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	NP	APP-Pending	IN	7140/CHE/2015		7140/CHE/2015		
32555	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	[redacted]	[redacted]	NP	PAT-Active	TW	105101721	I600306	201639323		
32556	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/656811	9277515			
32557	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201610082824.7	ZL2016100828247	105979575		
32558	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	16152326.1	3068090	3068090		
32559	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	16152326.1	3068090	3068090		
32560	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	16152326.1	3068090	3068090		
32561	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	16152326.1	3068090	3068090		
32562	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	201644003285		201644003285		
32563	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	TW	105103334	I608746	201640932		
32564	APPARATUS AND A METHOD FOR PROVIDING OSCILLATOR SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	15/045783	9467158	US-2016-0285469-A1		
32565	AVOIDING INTERFERENCE BETWEEN TWO DTCS DUE TO VCC RIPPLES BY INDEPENDENT DITHERING	[redacted]	[redacted]	NP	PAT-Active	CN	201610109171.7	ZL2016101091717	105027074		
32566	AN APPARATUS AND A METHOD FOR PROVIDING OSCILLATOR SIGNALS	[redacted]	[redacted]	NP	APP-Pending	DE	102015104672.5		102015104672		
32567	AVOIDING INTERFERENCE BETWEEN TWO DTCS DUE TO VCC RIPPLES BY INDEPENDENT DITHERING	[redacted]	[redacted]	NP	APP-Pending	IN	201644002840		201644002840		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32568	DIGITAL-TO-ANALOG CONVERTER CIRCUIT AN APPARATUS FOR PROVIDING A RADIO FREQUENCY TRANSMIT SIGNAL AND A METHOD OF DIGITAL-TO-ANALOG CONVERSION	[redacted]	[redacted]	NP	PAT-Active	US	15/088143	9490834	US-2016-0285470-A1		
32569	A DIGITAL-TO-ANALOG CONVERTER CIRCUIT AN APPARATUS FOR PROVIDING A RADIO FREQUENCY TRANSMIT SIGNAL AND A METHOD OF DIGITAL-TO-ANALOG CONVERSION	[redacted]	[redacted]	NP	APP-Pending	CN	201610100523		106027056		
32570	A DIGITAL-TO-ANALOG CONVERTER CIRCUIT AN APPARATUS FORPROVIDING A RADIO FREQUENCY TRANSMIT SIGNAL AND A METHOD OF DIGITAL-TO-ANALOG CONVERSION	[redacted]	[redacted]	NP	PAT-Active	DE	102015104814	[redacted]	102015104814		
32571	A DIGITAL-TO-ANALOG CONVERTER CIRCUIT AN APPARATUS FOR PROVIDING A RADIO FREQUENCY TRANSMIT SIGNAL AND A METHOD OF DIGITAL-TO-ANALOG CONVERSION	[redacted]	[redacted]	NP	APP-Pending	IN	201648004191		201644004191		
32572	HIGH LINEARITY PUSH-PULL COMMON-GATE AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	US	14/625793	9537457	US-2016-0248390-A1		
32573	HIGH LINEARITY PUSH-PULL COMMON-GATE AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	CN	201610092207	ZL2016100 3220076	105915185		
32574	HIGH LINEARITY PUSH-PULL COMMON-GATE AMPLIFIER	[redacted]	[redacted]	NP	APP-Pending	IN	7075/CHE/2015		7075/CHE/2015		
32575	ENVELOPE TRACKING IN CONNECTION WITH SIMULTANEOUS TRANSMISSION IN ONE OR MORE FREQUENCY BANDS	[redacted]	[redacted]	NP	PAT-Active	US	14/568313	9461590	US-2016-0173031-A1		
32576	ENVELOPE TRACKING IN CONNECTION WITH SIMULTANEOUS TRANSMISSION IN ONE OR MORE FREQUENCY BANDS	[redacted]	[redacted]	NP	PAT-Active	CN	201510752582	ZL2015107 3525823	105703716		
32577	ENVELOPE TRACKING IN CONNECTION WITH SIMULTANEOUS TRANSMISSION IN ONE OR MORE FREQUENCY BANDS	[redacted]	[redacted]	EPA	APP-Pending	EP	15193968		3032739		
32578	ENVELOPE TRACKING IN CONNECTION WITH SIMULTANEOUS TRANSMISSION IN ONE OR MORE FREQUENCY BANDS	[redacted]	[redacted]	NP	APP-Pending	IN	5813/CHE/2015		5813/CHE/2015		
32579	ENVELOPE TRACKING IN CONNECTION WITH SIMULTANEOUS TRANSMISSION IN ONE OR MORE FREQUENCY BANDS	[redacted]	[redacted]	NP	PAT-Active	TW	104136880	I578715	201633858		
32580	TERMINAL DEVICE AND MOBILE RADIO COMMUNICATION BY TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	14/661074		US-2016-0278072-A1		
32581	TERMINAL DEVICE AND MOBILE RADIO COMMUNICATION BY TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201610091446		105992371		
32582	MAPPING DATA PRIORITY TO CHANNEL QUALITY IN UPLINK CARRIER AGGREGATION	[redacted]	[redacted]	EPA	PAT-Active	EP	161536776	3070871	3070871		
32583	MAPPING DATA PRIORITY TO CHANNEL QUALITY IN UPLINK CARRIER AGGREGATION	[redacted]	[redacted]	EPA	PAT-Active	DE	161536776	3070871	3070871		
32584	MAPPING DATA PRIORITY TO CHANNEL QUALITY IN UPLINK CARRIER AGGREGATION	[redacted]	[redacted]	EPA	PAT-Active	FR	161536776	3070871	3070871		
32585	MAPPING DATA PRIORITY TO CHANNEL QUALITY IN UPLINK CARRIER AGGREGATION	[redacted]	[redacted]	EPA	PAT-Active	GB	161536776	3070871	3070871		
32586	MAPPING DATA PRIORITY TO CHANNEL QUALITY IN UPLINK CARRIER AGGREGATION	[redacted]	[redacted]	EPA	PAT-Active	NL	161536776	3070871	3070871		
32587	TERMINAL DEVICE AND MOBILE RADIO COMMUNICATION BY TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	201644000577		201644000577		
32588	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FORCONTROLLING A MOBILE COMMUNICATIONS DEVICE RECEIVER	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080421		107667561		
32589	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FORCONTROLLING A MOBILE COMMUNICATIONS DEVICE RECEIVER	[redacted]	[redacted]	PCT	APP-Pending	DE	112015008651		112015008651		
32590	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE RECEIVER	[redacted]	[redacted]	PCT	PAT-Active	US	15/738605	10462783	US-2018-0187884-A1		
32591	INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080367		107615668		
32592	INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112016002872		112016002872		
32593	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	NP	PAT-Active	US	14/993311	10063346	US-2016-0277148-A1		
32594	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	NP	APP-Pending	CN	201610086718		105991252		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
32595	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	EPA	PAT-Active	EP	161536430	3070865	3070865		
32597	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	EPA	PAT-Active	DE	161536420	3070865	3070865		
32598	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	EPA	PAT-Active	FR	161536420	3070865	3070865		
32599	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	EPA	PAT-Active	GB	161536420	3070865	3070865		
32600	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	EPA	PAT-Active	NL	161536420	3070865	3070865		
32601	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	NP	APP-Pending	IN	201644000904		201644000904		
32602	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	[redacted]	[redacted]	NP	PAT-Active	TW	105103608	I608491	201642275		
32603	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	NP	PAT-Active	US	14/580713	9491634	US-2016-0183267-A1		
32604	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	NP	PAT-Active	CN	201510818821	ZL2015108 I68210	105722002		
32605	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	EPA	PAT-Active	DE	151955069	3043503	3043503		
32606	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	EPA	PAT-Active	EP	151955069	3043503	3043503		
32607	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	EPA	PAT-Active	FR	151955069	3043503	3043503		
32608	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	EPA	PAT-Active	GB	151955069	3043503	3043503		
32609	SIGNAL BUFFERING FOR LICENSED SHARED ACCESS (LSA) TECHNOLOGY	[redacted]	[redacted]	NP	APP-Pending	IN	6138/CHE/2015		6138/CHE/2015		
32610	METHOD OF USING LICENSED SHARED ACCESS (LSA) TECHNOLOGY AT A RECEIVER DEVICE OR BY A LSA LICENSEE RECEIVER DEVICE AND A RECEIVER DEVICE	[redacted]	[redacted]	NP	PAT-Active	TW	104138143	I589167	201631995		
32611	METHODS AND DEVICES FOR CONTROLLING SPEECH QUALITY	[redacted]	[redacted]	NP	PAT-Active	US	15/087338	10211552	US-2016-0286375-A1		
32612	METHODS AND DEVICES FOR CONTROLLING SPEECH QUALITY	[redacted]	[redacted]	NP	APP-Pending	CN	201610015836		106027480		
32613	METHODS AND DEVICES FOR CONTROLLING SPEECH QUALITY	[redacted]	[redacted]	NP	APP-Pending	DE	102015104807		102015104807		
32614	METHODS AND DEVICES FOR CONTROLLING SPEECH QUALITY	[redacted]	[redacted]	NP	APP-Pending	IN	201644002686		201644002686		
32615	METHODS AND DEVICES FOR CONTROLLING SPEECH QUALITY	[redacted]	[redacted]	NP	PAT-Active	TW	105104967	I623216	201644239		
32616	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY ASHIFT TIME TO PROVIDE A SHIFTED SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015110275		102015110275		
32617	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080315		107667475		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32618	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL			PCT	PAT-Active	US	15/811851	10432173	US-2018-0167056-A1		
32619	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL			CNT	APP-Pending	US	16/543756		US 2020-0044626 A1		
32620	RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL			NP	PAT-Active	US	15/346935	9698840	US-2016-0285487-A1		
32621	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPO-NENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL			NP	PAT-Active	CN	201610096702X	ZL2016100 9670X3	106027083		
32622	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL			NP	APP-Pending	DE	102015104816		102015104813		
32623	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL			NP	APP-Pending	IN	201644004190		201644004190		
32624	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL			NP	PAT-Active	TW	105105515	I603591	201642594		
32625	APPARATUS AND A METHOD FOR PROCESSING A SIGNAL DEPENDING ON A RECEIVED RADIO FREQUENCY SIGNAL			NP	PAT-Active	US	15/345786	10068594	US-2016-0285587-A1		
32626	AN APPARATUS AND A METHOD FOR PROCESSING A SIGNAL DEPENDING ON A RECEIVED RADIO FREQUENCY SIGNAL			NP	PAT-Active	CN	201610101968X	ZL2016101 0196X7	106027073		
32627	AN APPARATUS AND A METHOD FOR PROCESSING A SIGNAL DEPENDING ON A RECEIVED RADIO FREQUENCY SIGNAL			NP	APP-Pending	DE	102015104809		102015104809		
32628	AN APPARATUS AND A METHOD FOR PROCESSING A SIGNAL DEPENDING ON A RECEIVED RADIO FREQUENCY SIGNAL			NP	APP-Pending	IN	201644003847		201644003847		
32629	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM MOBILE DEVICE AND BASE STATION			PCT	PAT-Active	CN	200680020321X	ZL2006800 20321X	101313501	Yes	
32630	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM			PCT	PAT-Active	US	11/908253	7957341	US-2008-0279476-A1	Yes	
32631	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM			CNT	PAT-Active	US	13/154331	8526411	US-2011-0235580-A1	Yes	
32632	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM			CNT	PAT-Active	US	14/017245	9326262	US-2014-0003403-A1	Yes	
32633	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM			CNT	PAT-Active	US	14/992903	10045319	US-2016-0128016-A1	Yes	
32634	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM			CNT	APP-Pending	US	16/036752		US-2018-0324734-A1	Yes	
32635	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM			NP	APP-Pending	DE	102015110358		102015110358		
32636	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM			PCT	APP-Pending	CN	201580030604X		107736057		
32637	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM			PCT	PAT-Active	US	15/572644	10368303	US-2018-0150363-A1		
32638	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM			CNT	APP-Pending	US	16/508405		US 2020-0008135 A1		
32639	REFERENCE SIGNAL POWER MEASUREMENT FILTERING			PCT	APP-Pending	CN	201580080842X		107615675		
32640	REFERENCE SIGNAL POWER MEASUREMENT FILTERING			PCT	APP-Pending	DE	112015006488		112015006488		
32641	REFERENCE SIGNAL POWER MEASUREMENT FILTERING			PCT	APP-Pending	US	15/736453		US-2019-0342812-A1		
32642	CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION			PCT	APP-Pending	CN	201580057571Z		107148795		
32643	CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION			EPR	APP-Pending	HK	18101364S		1242080		
32644	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			NP	PAT-Active	US	14/695806	9357736	US-2016-0143017-A1	Yes	
32645	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			CNT	PAT-Active	US	15/210977	10256876	US-2016-0352395-A1	Yes	
32646	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			EPT	PAT-Active	EP	158600882	3221982	3221982	Yes	
32647	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			EPT	PAT-Active	DE	158600882	########	3221982	Yes	
32648	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			EPT	PAT-Active	FR	158600882	3221982	3221982	Yes	
32649	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			EPT	PAT-Active	GB	158600882	3221982	3221982	Yes	
32650	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK			EPT	PAT-Active	NL	158600882	3221982	3221982	Yes	
32651	INTERACTIVE VIDEO CONFERENCING			NP	PAT-Active	US	14/807294	10021346	US-2016-0165185-A1	Yes	
32652	INTERACTIVE VIDEO CONFERENCING			CNT	APP-Pending	US	15/668150		US-2017-0332042-A1	Yes	
32653	INTERACTIVE VIDEO CONFERENCING			PCT	APP-Pending	CN	201580058961X		107113397	Yes	
32654	INTERACTIVE VIDEO CONFERENCING			EPR	APP-Pending	HK	1251019187		1242874	Yes	
32655	INTERACTIVE VIDEO CONFERENCING			EPT	APP-Pending	EP	15795433.3		3228086	Yes	
32656	INTERACTIVE VIDEO CONFERENCING			PCT	APP-Pending	IN	201747015750		201747015750	Yes	
32657	INTERACTIVE VIDEO CONFERENCING			PCT	APP-Pending	KR	10-2017-7012608		10-2017-0091592	Yes	
32658	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			NP	PAT-Active	US	14/678441	9715192	US-2016-0299599-A1		
32659	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			NP	PAT-Active	CN	201610108403X	ZL2016101 084037	106028359		
32660	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			EPA	PAT-Active	EP	161560214	3073791	3073791		
32661	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			EPA	PAT-Active	DE	161560214	3073791	3073791		
32662	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			EPA	PAT-Active	FR	161560214	3073791	3073791		
32663	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			EPA	PAT-Active	GB	161560214	3073791	3073791		
32664	DEVICE AND METHOD FOR PROCESSING AUDIO DATA			NP	APP-Pending	IN	201644004359		201644004359		
32665	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			NP	PAT-Active	US	14/668274	10027354	US-2016-0285481-A1		
32666	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			NP	APP-Pending	CN	201610104171X		106027132		
32667	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			EPA	PAT-Active	EP	161539010	3073572	3073572		
32668	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			EPA	PAT-Active	DE	161539010	########	3073572		
32669	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			EPA	PAT-Active	FR	161539010	3073572	3073572		
32670	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			EPA	PAT-Active	GB	161539010	3073572	3073572		
32671	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			EPA	PAT-Active	NL	161539010	3073572	3073572		
32672	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS			NP	APP-Pending	IN	201644002696		201644002696		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32673	A METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015116246		102015116246		
32674	A METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	15/750257	10408515	US-2016-0262384-A1		
32675	METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	[redacted]	[redacted]	CNT	APP-Pending	US	16/516281		US 2020-0014379 A1		
32676	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/729511	9942846	US-2016-0192389-A1	Yes	
32677	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580063263X		107113689	Yes	
32678	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	EPR	APP-Pending	HK	17111281S		1237575	Yes	
32679	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15875884?		3241386	Yes	
32680	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7014587		10-2017-0098877	Yes	
32681	REFERENCE SIGNAL PRESENCE DETECTON BASED LICENSE ASSISTED ACCESS AND REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	NP	PAT-Active	US	14/747663	9900134	US-2016-0173249-A1	Yes	
32682	REFERENCE SIGNAL PRESENCE DETECTON BASED LICENSE ASSISTED ACCESS AND REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	PCT	APP-Pending	CN	201580063240		107258099	Yes	
32683	REFERENCE SIGNAL PRESENCE DETECTON BASED LICENSE ASSISTED ACCESS AND REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	EPR	APP-Pending	HK	18310467?		1246558	Yes	
32684	JOINT PROCESSING OF TRANSPORT BLOCKS ON MULTIPLE COMPONENT CARRIERS FOR CA (CARRIER AGGREGATION) AND LAA (LICENSE ASSISTED ACCESS)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580063623		107005383	Yes	
32685	JOINT PROCESSING OF TRANSPORT BLOCKS ON MULTIPLE COMPONENT CARRIERS FOR CA (CARRIER AGGREGATION) AND LAA (LICENSE ASSISTED ACCESS)	[redacted]	[redacted]	EPR	APP-Pending	HK	17110958O		1237154	Yes	
32686	JOINT PROCESSING OF TRANSPORT BLOCKS ON MULTIPLE COMPONENT CARRIERS FOR CA (CARRIER AGGREGATION) AND LAA (LICENSE ASSISTED ACCESS)	[redacted]	[redacted]	EPT	APP-Pending	EP	15815985?		3238359	Yes	
32687	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	15/077197	9974024	US-2016-0316434-A1		
32688	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND METH-OD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	201610147904S	ZL2016101 4759046	105068031		
32689	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015106201		102015106201		
32690	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	APP-Pending	IN	201644009142		201644009142		
32691	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	NP	PAT-Active	US	14/671788	9503842	US-2016-0286340-A1	Yes	
32692	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680012263		107409273	Yes	
32693	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPR	APP-Pending	HK	18305023O		1249061	Yes	
32694	USER EQUIPMENT PORT CONTROL PROTOCOL SERVER AND METHODS FOR SIGNALING DEVICE AND APPLICATION FEEDBACK	[redacted]	[redacted]	NP	PAT-Active	US	14/659655	9554305	US-2015-0195750-A1		
32695	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	PAT-Active	AU	2015218697	[redacted]	2015218697		
32696	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	APP-Pending	BR	112016017052-0				
32697	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	EP	157525577	3111699	3111699		
32698	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	AT	157525577	3111699	3111699		
32699	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	BE	157525577	3111699	3111699		
32700	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	CH	157525577	3111699	3111699		
32701	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	DE	157525577	3111699	3111699		
32702	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	EE	157525577	3111699	3111699		
32703	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	ES	157525577	3111699	3111699		
32704	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	FR	157525577	3111699	3111699		
32705	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	GB	157525577	3111699	3111699		
32706	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	GR	157525577	3111699	3111699		
32707	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	HU	157525577	3111699	3111699		
32708	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	IE	157525577	3111699	3111699		
32709	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	NL	157525577	3111699	3111699		
32710	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPT	PAT-Active	SK	157525577	3111699	3111699		
32711	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	APP-Pending	IN	201647025241		201647025241		
32712	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-548078	6388952	2017-508365		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
32714	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	PAT-Active	RU	2016130277	2646598	2016130277		
32715	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	PAT-Active	US	15/114718	10299172	US-2016-0345210-A1		
32716	AT COMMAND FOR SECURE ESM INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	14/701570	9730062	US-2016-0323739-A1	Yes	
32717	AT COMMAND FOR SECURE ESM INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/628246	9924360	US-2017-0289802-A1	Yes	
32718	AT COMMAND FOR SECURE ESM INFORMATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/884545	10165445	US-2018-0152844-A1	Yes	
32719	ELECTRONIC DEVICES AND METHOD OF CONTROLLING AN ELECTRONIC DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	14/623574		US-2016-0239057-A1		
32720	METHODS AND DEVICES FOR PROVIDING A ROBUST DATA COMMUNICATION BETWEEN A CLIENT AND A SERVER	[redacted]	[redacted]	NP	APP-Pending	DE	102015109951		102015109951		
32721	METHODS AND DEVICES FOR PROVIDING A ROBUST DATA COMMUNICATION BETWEEN A CLIENT AND A SERVER	[redacted]	[redacted]	PCT	APP-Pending	CN	201680029547		107846177		
32722	METHODS AND DEVICES FOR PROVIDING A ROBUST DATA COMMUNICATION BETWEEN A CLIENT AND A SERVER	[redacted]	[redacted]	PCT	APP-Pending	US	15/738060		US-2018-0234287-A1		
32723	USER EQUIPMENT AND BASE STATION FOR DYNAMIC CSI-RS AND CSI-IM TRANSMISSION IN LTE SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/707242	10034277	US-2016-0212733-A1	Yes	
32724	USER EQUIPMENT AND BASE STATION CONFIGURED FOR APERIODIC CSI REFERENCES SIGNALS(CSI-RS) WITH APERIODIC REPORT TRIGGERING	[redacted]	[redacted]	CNT	APP-Pending	US	16/032704		US-2018-0014559-A1	Yes	
32725	USER EQUIPMENT AND BASE STATION FOR DYNAMIC CSI-RS AND CSI-IM TRANSMISSION IN LTE SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	158782789		3285748	Yes	
32726	LTE-A SYSTEMS AND METHOD OF DRE BASED POSITIONING	[redacted]	[redacted]	NP	PAT-Active	US	14/662886	9986373	US-2016-0205499-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32727	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580067984.0		107005856		
32728	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	[redacted]	[redacted]	FPR	APP-Pending	HK	18100955.3		1241641		
32729	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	[redacted]	[redacted]	EPT	APP-Pending	EP	15825715.4		3245808		
32730	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	NP	PAT-Active	US	14/751499	9917558	US-2016-0205004-A1	Yes	
32731	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	BR	112017012228-6		112017012228-6	Yes	
32732	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	CNT	APP-Pending	US	15/887915		US-2018-0183692-A1	Yes	
32733	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580066451.8		107005836	Yes	
32734	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	FPR	APP-Pending	HK	18100953.5		1241598	Yes	
32735	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	EPT	APP-Pending	EP	15878276.5		3245769	Yes	
32736	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	IN	201747020460		201747020460	Yes	
32737	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7016037		10-2017-0104449	Yes	
32738	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/751436	9699153	US-2016-0212108-A1		
32739	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/608772	10469478	US-2018-0013737-A1		
32740	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/516804		US 2020-0014672 A1		
32741	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580067810.1		107005841		
32742	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18100956.2		1241642		
32743	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	EP	15791093.6	3248437	3248437		
32744	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	AT	15791093.6	3248437	3248437		
32745	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	BE	15791093.6	3248437	3248437		
32746	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	CH	15791093.6	3248437	3248437		
32747	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	DE	15791093.6	########	3248437		
32748	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	EE	15791093.6	3248437	3248437		
32749	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	ES	15791093.6	3248437	3248437		
32750	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	FR	15791093.6	3248437	3248437		
32751	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	GB	15791093.6	3248437	3248437		
32752	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	GR	15791093.6	3248437	3248437		
32753	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	HU	15791093.6	3248437	3248437		
32754	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	IS	15791093.6	3248437	3248437		
32755	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	NL	15791093.6	3248437	3248437		
32756	SYSTEMS METHODS AND DEVICES FOR DIRECT DEVICE TO DEVICE COMMUNICATION USING ENCAPSULATION	[redacted]	[redacted]	EPT	PAT-Active	SK	15791093.6	3248437	3248437		
32757	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	NP	PAT-Active	US	14/812833	9992806	US-2016-0212780-A1	Yes	
32758	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	PCT	APP-Pending	BR	112017011833-5		112017011833-5	Yes	
32759	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580069285.5		107113593	Yes	
32760	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	FPR	APP-Pending	HK	18100983.5		1241655	Yes	
32761	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	PCT	APP-Pending	IN	201747020587		201747020587	Yes	
32762	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7018257		10-2017-0104450	Yes	
32763	USER EQUIPMENT AND CODEBOOK SEARCH METHOD FOR 4TX DUAL CODEBOOK (RAN1)	[redacted]	[redacted]	PCT	PAT-Active	US	15/575216	10205498	US-2018-0167115-A1		
32764	Robust SNIR Estimation	[redacted]	[redacted]	NP	PAT-Active	DE	102015012176.6	########	102015012176		
32765	RLS-DCD ADAPTATION HARDWARE ACCELERATOR FOR INTERFERENCE CANCELLATION IN FULL-DUPLEX WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/861421	9935615	US-2017-0085252-A1		
32766	RLS-DCD ADAPTATION HARDWARE ACCELERATOR IN FULL-DUPLEX WIRELESS SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	CN	201610670816.0		106549746		
32767	RLS-DCD ADAPTATION HARDWARE ACCELERATOR FOR INTERFERENCE CANCELLATION IN FULL-DUPLEX WIRELESS SYSTEMS	[redacted]	[redacted]	EPA	APP-Pending	EP	16826520.1		3187777		
32768	RLS-DCD ADAPTATION HARDWARE ACCELERATOR FOR INTERFERENCE CANCELLATION IN FULL-DUPLEX WIRELESS SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	IN	201644024277		201644024277		
32769	METHODS AND DEVICES FOR POWER SAVING	[redacted]	[redacted]	NP	PAT-Active	DE	102015012492.7	########	102015012492		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
32771	POWER OPTIMIZATION FOR CHANNEL STATE REPORTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	APP-Pending	DE	102015009779.2		102015009779		
32772	POWER OPTIMIZATION FOR CHANNEL STATE REPORTS IN A WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/745995		US-2018-0213482-A1		
32773	DEVICE AND METHOD FOR MITIGATING LOWPASS FILTER GROUP DELAY	[redacted]	[redacted]	NP	PAT-Active	DE	102015115760.8	########	102015115760		
32774	DEVICE AND METHOD FOR MITIGATING LOWPASS FILTER GROUP DELAY	[redacted]	[redacted]	PCT	PAT-Active	US	15/760450	10404492	US-2018-0262369-A1		
32775	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	14/751149		US-2016-0381610-A1		
32776	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201610357156.8		106301177		
32777	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	EPA	APP-Pending	EP	16171187.6		3113543		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
32782	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	201644015800		201644015800		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
12783	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	[redacted]	[redacted]	NP	PAT-Active	KR	10-2016-0064375	10-1823039	10-2017-0001573		
[redacted]											
12785	METHOD AND DEVICE FOR DETERMINING CHANNEL STATE INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680029971.6		107660327		
12786	METHOD AND DEVICE FOR DETERMINING CHANNEL STATE INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/758086		US-2018-0234155-A1		
12787	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/748293	10184732	US-2016-0380721-A1		
12788	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680030023.6		107667507		
12789	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	DE	112016002838.5		112016002838		
12790	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	IN	201847002228		201847002228		
12791	METHOD AND DEVICE FOR DETECTING A TRANSMISSION FROM AN INTERFERING RADIO CELL	[redacted]	[redacted]	NP	APP-Pending	DE	102015103389.3		102015103389		
12792	METHOD AND DEVICE FOR DETECTING A TRANSMISSION FROM AN INTERFERING RADIO CELL	[redacted]	[redacted]	PCT	PAT-Active	CN	201580030849.0	ZL201580030849.0	107771379		
12793	METHOD AND DEVICE FOR DETECTING A TRANSMISSION FROM AN INTERFERING RADIO CELL	[redacted]	[redacted]	PCT	PAT-Active	US	15/738599	10419146	US-2018-0175959-A1		
[redacted]											
12795	METHODS AND DEVICES FOR CHANNEL ESTIMATION FOR MOBILE SYSTEMS OF INSUFFICIENT CYCLIC PREFIX LENGTH	[redacted]	[redacted]	PCT	APP-Pending	CN	201680021802.8		107580770		
12796	METHODS AND DEVICES FOR CHANNEL ESTIMATION FOR MOBILE SYSTEMS OF INSUFFICIENT CYCLIC PREFIX LENGTH	[redacted]	[redacted]	PCT	PAT-Active	US	15/565557	10110401	US-2018-0123837-A1		
12797	COMMUNICATION DEVICE AND METHOD FOR STORING DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	201580028885.3		107646179		
12798	COMMUNICATION DEVICE AND METHOD FOR STORING DATA	[redacted]	[redacted]	PCT	APP-Pending	DE	112015002914.6		112015002914		
12799	COMMUNICATION DEVICE AND METHOD FOR STORING DATA	[redacted]	[redacted]	PCT	APP-Pending	US	15/738617		US-2018-0183547-A1		
12800	PSEUDO CLOSED LOOP POWER CONTROL FOR WIRELESS SYSTEMS WITH MULTI TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	DE	102015101860.5	########	102015101860		
12801	MULTI-TRANSMISSION CAPABLE DATA TRANSMISSION SYSTEM AND METHOD OF OPERATING THE SAME	[redacted]	[redacted]	PCT	APP-Pending	CN	201580030112.9		107646203		
12802	MULTI-TRANSMISSION CAPABLE DATA TRANSMISSION SYSTEM AND METHOD OF OPERATING THE SAME	[redacted]	[redacted]	PCT	APP-Pending	US	15/736416		US 2020-0037293 A1		
12803	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	14/751181	9537530	US-2016-0380666-A1		
12804	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	CNT	PAT-Active	US	15/393309	9866264	US-2017-0111079-A1		
12805	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	CN	201610340821.9	ZL201610340821.9	105301459		
12806	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	EP	16171842.4	3110024	3110024		
12807	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	DE	16171842.4	########	3110024		
12808	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	FR	16171842.4	3110024	3110024		
12809	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	GB	16171842.4	3110024	3110024		
12810	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	EPA	PAT-Active	NL	16171842.4	3110024	3110024		
12811	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	APP-Pending	IN	201644015802		201644015802		
12812	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	KR	10-2016-0064293	10-1654980	10-2017-0001572		
12813	ARCHITECTURE AND CONTROL OF ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	US	14/751579	9722713	US-2016-0380706-A1		
12814	ARCHITECTURE AND CONTROL OF ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	CN	201610355823.5	ZL201610355823.5	105301460		
12815	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	EPA	PAT-Active	EP	16171882.0	3110018	3110018		
12816	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	EPA	PAT-Active	DE	16171882.0	3110018	3110018		
12817	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	EPA	PAT-Active	FR	16171882.0	3110018	3110018		
12818	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	EPA	PAT-Active	GB	16171882.0	3110018	3110018		
12819	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	EPA	PAT-Active	NL	16171882.0	3110018	3110018		
12820	Architecture and Control of Analog Self-Interference Cancellation	[redacted]	[redacted]	NP	APP-Pending	IN	201644015801		201644015801		
12821	ENHANCED LISTEN-BEFORE-TALK (LBT) FOR UNLICENSED BAND OPERATION WITH CELL SPLITTING	[redacted]	[redacted]	NP	PAT-Active	US	14/740563	9615275	US-2016-0219448-A1		
12822	ENHANCED LISTEN-BEFORE-TALK (LBT) FOR UNLICENSED BAND OPERATION WITH CELL SPLITTING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580071296.9		107113883		
12823	ENHANCED LISTEN-BEFORE-TALK (LBT) FOR UNLICENSED BAND OPERATION WITH CELL SPLITTING	[redacted]	[redacted]	FPR	APP-Pending	HK	18100919.8		1241634		
12824	DEVICES AND METHODS FOR EPOCH MONITORING IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/748803	10070478	US-2016-0219557-A1	Yes	
12825	DEVICES AND METHODS FOR EPOCH MONITORING IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15879234.1		3248312	Yes	
12826	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/751054	9686064	US-2016-0212734-A1	Yes	
12827	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	PAT-Active	US	15/624324	10419178	US-2018-0034610-A1	Yes	
12828	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/536818		US 2020-0036494 A1		
12829	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15879233.3		3248316	Yes	
12830	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580029535.1		107113771	Yes	
12831	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	[redacted]	[redacted]	FPR	APP-Pending	HK	18101979.9		1242895	Yes	
12832	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	[redacted]	[redacted]	EPT	APP-Pending	EP	15823900.4		3250937	Yes	
12833	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7017456		10-2017-0107434	Yes	
12834	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Pending	US	15/539896		US-2018-0011163-A1	Yes	
12835	LAA (LICENSE ASSISTED ACCESS) BURST CONTROL INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580071297.3		107113884	Yes	
12836	LAA (LICENSE ASSISTED ACCESS) BURST CONTROL INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18100919.8		1241633	Yes	
12837	LAA (LICENSE ASSISTED ACCESS) BURST CONTROL INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15820949.9		3251458	Yes	
12838	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580069485.2		107113566	Yes	

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32838	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	FPR	APP-Pending	HK	18101993S		1243267	Yes	
32840	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	EPT	APP-Pending	EP	15880633		3251235	Yes	
32841	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7017362		10-2017-0107975	Yes	
32842	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	PCT	PAT-Active	US	15/524842	10383080	US-2017-0374638-A1	Yes	
32843	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	[redacted]	[redacted]	CNT	APP-Pending	US	16/407148		US 2019-0387491 A1	Yes	
32844	APERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION	[redacted]	[redacted]	NP	PAT-Active	US	14/708545	9883491	US-2016-0227530-A1	Yes	
32845	APERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/877579	10390337	US-2018-0302894-A1	Yes	
32846	APERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15813957S		3251281	Yes	
32847	APPLICATION SPECIFIC CONGESTION CONTROL FOR DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580070345?		107113269		
32848	APPLICATION SPECIFIC CONGESTION CONTROL FOR DATA COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	18100467S		1245172		
32849	APPLICATION SPECIFIC CONGESTION CONTROL FOR DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	15879258?		3248341		
32850	PRECODING RESOURCE BLOCK GROUP BUNDLING ENHANCEMENT FOR FULL DIMENSION MULTI-IN-MULTI-OUTPUT	[redacted]	[redacted]	NP	PAT-Active	US	14/838879	10367551	US-2016-0277520-A1	Yes	
32851	PRECODING RESOURCE BLOCK GROUP BUNDLING ENHANCEMENT FOR FULL DIMENSION MULTI-IN-MULTI-OUTPUT	[redacted]	[redacted]	CNT	APP-Pending	US	16/399731		US-2019-0260436-A1	Yes	
32852	IPCARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G	[redacted]	[redacted]	EPT	APP-Pending	EP	15880653S		3251843	Yes	
32853	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080047217		107135673	Yes	
32854	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	FPR	APP-Pending	HK	18301363?		1242105	Yes	
32855	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	EP	16706067?	3251402	3251402	Yes	
32856	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	AT	16706067?	3251402	3251402	Yes	
32857	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	BE	16706067?	3251402	3251402	Yes	
32858	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	CH	16706067?	3251402	3251402	Yes	
32859	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	DE	16706067?	########	3251402	Yes	
32860	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	EE	16706067?	3251402	3251402	Yes	
32861	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	ES	16706067?	3251402	3251402	Yes	
32862	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	FR	16706067?	3251402	3251402	Yes	
32863	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	GB	16706067?	3251402	3251402	Yes	
32864	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	GR	16706067?	3251402	3251402	Yes	
32865	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	HU	16706067?	3251402	3251402	Yes	
32866	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	IS	16706067?	3251402	3251402	Yes	
32867	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	NL	16706067?	3251402	3251402	Yes	
32868	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	PAT-Active	SK	16706067?	3251402	3251402	Yes	
32869	WIRELESS SYSTEM FOR DETERMINING THE POSITION OF A UE INVOLVED IN CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580070636?		107403286		
32870	WIRELESS SYSTEM FOR DETERMINING THE POSITION OF A UE INVOLVED IN CARRIER AGGREGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18103677?		1244155		
32871	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/976736	9974049	US-2016-0227514-A1	Yes	
32872	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	[redacted]	[redacted]	CNT	APP-Pending	US	15/979033		US-2018-0263015-A1	Yes	
32873	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE CAPABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580070494?		107113650	Yes	
32874	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE CAPABLE DEVICES	[redacted]	[redacted]	PCD	APP-Pending	CN	201910124233?		110062391	Yes	
32875	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE CAPABLE DEVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	18302004?		1242895	Yes	
32876	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	[redacted]	[redacted]	NP	PAT-Active	TW	10418337	599252	201635833	Yes	
32877	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	[redacted]	[redacted]	DIV	PAT-Active	TW	10612078	669995	201813437	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
32879	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580071695?		107113748	Yes	
32880	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	FPR	APP-Pending	HK	18300516?		1241633	Yes	
32881	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	EPT	APP-Pending	EP	15880649?		3251430	Yes	
32882	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201747020637		201747020637	Yes	
32883	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	PCT	APP-Pending	IP	2017-530698		2018-504021	Yes	
32884	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7017895		10-2017-0108536	Yes	
32885	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	PCT	PAT-Active	US	15/540923	10219228	US-2018-0007641-A1	Yes	
32886	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	[redacted]	[redacted]	CNT	APP-Pending	US	16/243856		US-2019-0349868-A1	Yes	
32887	SYSTEM AND METHODS FOR PRECODED TRANSMISSIONS FOR NARROWBAND TRANSMISSIONS WITHIN WIDER SYSTEM BANDWIDTH	[redacted]	[redacted]	PCT	APP-Pending	CN	201580071637X		107113274	Yes	
32888	SYSTEM AND METHODS FOR PRECODED TRANSMISSIONS FOR NARROWBAND TRANSMISSIONS WITHIN WIDER SYSTEM BANDWIDTH	[redacted]	[redacted]	FPR	APP-Pending	HK	18300915?		1241595	Yes	
32889	SYSTEM AND METHODS FOR PRECODED TRANSMISSIONS FOR NARROWBAND TRANSMISSIONS WITHIN WIDER SYSTEM BANDWIDTH	[redacted]	[redacted]	EPT	APP-Pending	EP	15880942?		3251315	Yes	
32890	SYSTEM AND METHODS FOR SUPPORT OF FREQUENCY HOPPING FOR UES WITH REDUCED BANDWIDTH SUPPORT	[redacted]	[redacted]	NP	APP-Pending	US	14/748814		US-2016-0226639-A1	Yes	
32891	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580071750?		107211441		
32892	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	18300448?		1241195		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32893	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	EPT	APP-Pending	EP	15880643		3251455		
32898	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	US	15/537074	10389454	US-2017-0366308-A1		
32895	CHIP RATE SELECTABLE SQUARE ROOT RAISED COSINE FILTER FOR MOBILE TELECOMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	09/467487	6650688			
32886	OUTAGE NOTIFICATION AND CONTEXT PRESERVATION FOR ENERGY-HARVESTING DEVICES	[redacted]	[redacted]	NP	APP-Pending	US	14/817679		US-2017-0041915-A1	Yes	
32897	OUTAGE NOTIFICATION AND CONTEXT PRESERVATION FOR ENERGY-HARVESTING DEVICES	[redacted]	[redacted]	PCT	APP-Pending	DE	112016003561		112016003561	Yes	
32898	OUTAGE NOTIFICATION AND CONTEXT PRESERVATION FOR ENERGY-HARVESTING DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	105120935		201707476	Yes	
32899	DOWNLINK SIGNALING FOR UE SPECIFIC CYCLIC PREFIX TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/928820	10154488	US-2017-0127412-A1	Yes	
32900	DOWNLINK SIGNALING FOR UE SPECIFIC CYCLIC PREFIX TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	DE	112015004990		112015004990	Yes	
32901	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/794774	10021705	US-2017-0013630-A1	Yes	
32902	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680032077		107667557	Yes	
32903	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES	[redacted]	[redacted]	EPR	APP-Pending	HK	18106458		1250111	Yes	
32904	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7003465		10-2018-0028466	Yes	
32905	UPLINK SYNCHRONIZATION WITH ASSISTED mmWAVE ENHANCED NODE B	[redacted]	[redacted]	NP	PAT-Active	US	14/827678	10075985	US-2017-0055298-A1	Yes	
32906	UPLINK SYNCHRONIZATION WITH ASSISTED mmWAVE ENHANCED NODE B	[redacted]	[redacted]	PCT	APP-Pending	CN	201680042050		107852687	Yes	
32907	UPLINK SYNCHRONIZATION WITH ASSISTED mmWAVE ENHANCED NODE B	[redacted]	[redacted]	EPR	APP-Pending	HK	18108759		1251760	Yes	
32908	CELL SEARCH AND SYNCHRONIZATION IN MILLIMETER-WAVE CAPABLE SMALL CELLS	[redacted]	[redacted]	NP	PAT-Active	US	14/977412	9930658	US-2017-0181134-A1	Yes	
32909	CELL SEARCH AND SYNCHRONIZATION IN MILLIMETER-WAVE CAPABLE SMALL CELLS	[redacted]	[redacted]	NP	APP-Pending	TW	105137257		201724893	Yes	
32910	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/751377	9861580	US-2016-0381588-A1		
32911	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	CN	201610340569	ZL2016103405693	106304124		
32912	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIOMEASUREMENTS	[redacted]	[redacted]	EPA	PAT-Active	EP	16171890	3110200	3110200		
32913	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	EPA	PAT-Active	DE	16171890	########	3110200		
32914	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	EPA	PAT-Active	FR	16171890	3110200	3110200		
32915	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	EPA	PAT-Active	GB	16171890	3110200	3110200		
32916	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	NP	APP-Pending	IN	201644018041		201644018041		
32917	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	[redacted]	[redacted]	NP	PAT-Active	KR	10-2016-0064262	10-1867154	10-2017-0001571		
32918	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	NP	PAT-Active	US	14/963372	9820328	US-2017-0171894-A1		
32919	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	EPA	PAT-Active	EP	16196130	3179332	3179332		
32920	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	EPA	PAT-Active	DE	16196130	3179332	3179332		
32921	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	EPA	PAT-Active	FR	16196130	3179332	3179332		
32922	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	EPA	PAT-Active	GB	16196130	3179332	3179332		
32923	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	[redacted]	[redacted]	EPA	PAT-Active	NL	16196130	3179332	3179332		
32924	ENERGY EFFICIENT POLYNOMIAL KERNEL GENERATION IN FULL-DUPLEX RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/749766	9893748	US-2016-0380653-A1		
32925	ENERGY EFFICIENT POLYNOMIAL KERNEL GENERATION IN FULL-DUPLEX RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	201610331645	ZL2016103314457	106301856		
32926	ENERGY EFFICIENT POLYNOMIAL KERNEL GENERATION IN FULL-DUPLEX RADIO COMMUNICATION	[redacted]	[redacted]	EPA	APP-Pending	EP	16170381		3150023		
32927	ENERGY EFFICIENT POLYNOMIAL KERNEL GENERATION IN FULL-DUPLEX RADIO COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	IN	201644015365		201644015365		
32928	ENERGY EFFICIENT POLYNOMIAL KERNEL GENERATION IN FULL-DUPLEX RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	JP	2016-102884	6239036	2017-011690		
32929	METHOD FOR POWER SAVING AND POWER SAVING CIRCUIT FOR A MOBILE DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	102015110303		102015110303		
32930	METHOD FOR POWER SAVING AND POWER SAVING CIRCUIT FOR A MOBILE DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680030897		107690829		
32931	METHOD FOR POWER SAVING AND POWER SAVING CIRCUIT FOR A MOBILE DEVICE	[redacted]	[redacted]	PCT	APP-Pending	US	15/758445		US 2020-0063644 A1		
32932	METHOD FOR FEEDBACK REPORTING AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/751217	9729221	US-2016-0380687-A1		
32933	A METHOD FOR FEEDBACK REPORTING AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680029074		107615682		
32934	A METHOD FOR FEEDBACK REPORTING AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	PCT	APP-Pending	DE	112016002860		112016002860		
32935	METHOD AND RELATED MOBILE DEVICE FOR FAST BLIND DECODING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580041977		107852272		
32936	METHOD AND RELATED MOBILE DEVICE FOR FAST BLIND DECODING	[redacted]	[redacted]	PCT	APP-Pending	US	15/738077		US-2018-0234112-A1		
32937	A SYSTEM AND A METHOD FOR DETERMINING A CORRECTION FORAN OUTPUT VALUE OF A TIME-TO-DIGITAL CONVERTER WITHIN APHASE-LOCKED LOOP	[redacted]	[redacted]	NP	APP-Pending	DE	102015110293		102015110293		
32938	SYSTEM AND A METHOD FOR DETERMINING A CORRECTION FOR AN OUTPUT VALUE OF A TIME-TO-DIGITAL CONVERTER WITHIN A PHASE-LOCKED LOOP	[redacted]	[redacted]	PCT	PAT-Active	US	15/575830	10298243	US-2018-0131380-A1		
32939	SUPER ULTRA WIDEBAND ANTENNA	[redacted]	[redacted]	EPA	APP-Pending	EP	16171916		3109936		
32940	SUPER ULTRA WIDEBAND ANTENNA	[redacted]	[redacted]	NP	APP-Pending	IN	3213/CHE/2015		3213/CHE/2015		
32941	SUPER ULTRA WIDEBAND ANTENNA	[redacted]	[redacted]	NP	PAT-Active	JP	2016-104504	6250734	2017-017679		
32942	SYSTEMS AND METHODS FOR AGGREGATING AN ENHANCED MULTIMEDIA BROADCAST MULTICAST SERVICE OVER MULTIPLE FREQUENCY CARRIERS	[redacted]	[redacted]	NP	PAT-Active	US	14/976240	10193703	US-2016-0241412-A1	Yes	
32943	SYSTEMS AND METHODS FOR AGGREGATING AN ENHANCED MULTIMEDIA BROADCAST MULTICAST SERVICE OVER MULTIPLE FREQUENCY CARRIERS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680075721		107210897	Yes	
32944	SYSTEMS AND METHODS FOR AGGREGATING AN ENHANCED MULTIMEDIA BROADCAST MULTICAST SERVICE OVER MULTIPLE FREQUENCY CARRIERS	[redacted]	[redacted]	EPR	APP-Pending	HK	18105378		1244124	Yes	
32945	POSITIONING WITH WLAN TIME OF FLIGHT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580075171		107711388		
32946	POSITIONING WITH WLAN TIME OF FLIGHT	[redacted]	[redacted]	EPR	APP-Pending	HK	18103535		1244187		
32947	METHODS AND APPARATUSES FOR CHARGING ARCHITECTURE FOR LONG-TERM EVOLUTION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580074131		107251884		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32948	METHODS AND APPARATUSES FOR CHARGING ARCHITECTURE FOR LONG-TERM EVOLUTION NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18103648?		1244369		
32949	METHODS AND APPARATUSES FOR CHARGING ARCHITECTURE FOR LONG-TERM EVOLUTION NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15736142?		3259875		
32950	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580075556?		107210810	Yes	
32951	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE	[redacted]	[redacted]	FPR	APP-Pending	HK	18103536?		1244137	Yes	
32952	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE	[redacted]	[redacted]	EPT	APP-Pending	EP	15882795?		3257308	Yes	
32953	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	US	15/542716		US-2018-0007673-A1	Yes	
32954	OPPORTUNISTIC ACCESS OF MILLIMETERWAVE RADIO ACCESS TECHNOLOGY BASED ON EDGE CLOUD MOBILE PROXY	[redacted]	[redacted]	PCT	APP-Pending	CN	201680009978?		107211321	Yes	
32955	OPPORTUNISTIC ACCESS OF MILLIMETERWAVE RADIO ACCESS TECHNOLOGY BASED ON EDGE CLOUD MOBILE PROXY	[redacted]	[redacted]	FPR	APP-Pending	HK	18103561?		1244150	Yes	
32956	OPPORTUNISTIC ACCESS OF MILLIMETERWAVE RADIO ACCESS TECHNOLOGY BASED ON EDGE CLOUD MOBILE PROXY	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-548087		2018-511224	Yes	
32957	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580074661?		107211443	Yes	
32958	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18103538?		1244148	Yes	
32959	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	EP	15771471?	3262887	3262887	Yes	
32960	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	AT	15771471?	3262887	3262887	Yes	
32961	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	BE	15771471?	3262887	3262887	Yes	
32962	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	CH	15771471?	3262887	3262887	Yes	
32963	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	DE	15771471?	3262887	3262887	Yes	
32964	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	EE	15771471?	3262887	3262887	Yes	
32965	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	ES	15771471?	3262887	3262887	Yes	
32966	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	FR	15771471?	3262887	3262887	Yes	
32967	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	GB	15771471?	3262887	3262887	Yes	
32968	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	GR	15771471?	3262887	3262887	Yes	
32969	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	HU	15771471?	3262887	3262887	Yes	
32970	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	IE	15771471?	3262887	3262887	Yes	
32971	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	NL	15771471?	3262887	3262887	Yes	
32972	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	EPT	PAT-Active	SK	15771471?	3262887	3262887	Yes	
32973	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7023122		10-2017-0121742	Yes	
32974	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/542092	10405331	US-2016-0020462-A1	Yes	
32975	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/418703		US-2019-0274148-A1	Yes	
32976	SYSTEMS AND METHODS FOR ENHANCED MBMS WITH MIMO SUPPORT	[redacted]	[redacted]	NP	PAT-Active	US	14/865238	10038484	US-2016-0258920-A1	Yes	
32977	SYSTEMS AND METHODS FOR ENHANCED MBMS WITH MIMO SUPPORT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680002885?		107210792	Yes	
32978	SYSTEMS AND METHODS FOR ENHANCED MBMS WITH MIMO SUPPORT	[redacted]	[redacted]	FPR	APP-Pending	HK	18103539?		1244118	Yes	
32979	SYSTEMS AND METHODS FOR ENHANCED MBMS WITH MIMO SUPPORT	[redacted]	[redacted]	EPT	APP-Pending	EP	16706020?		3262760	Yes	
32980	BASE STATION POWER CONSERVATION VIA DEVICE OPERATION COORDINATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680038938		108781495	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
32982	ARCHITECTURE FOR WIRELESS NETWORK ACCESS	[redacted]	[redacted]	EPT	APP-Pending	EP	19905965?		3560262	Yes	
32983	ARCHITECTURE FOR WIRELESS NETWORK ACCESS	[redacted]	[redacted]	PCT	APP-Pending	US	15/765540		US-2018-0310230-A1	Yes	
32984	LOW-POWER WAKEUP RADIO FOR MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006954?		112015006954	Yes	
32985	LOW-POWER WAKEUP RADIO FOR MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/758303		US-2018-0255515-A1	Yes	
32986	APPARATUS SYSTEM AND METHOD OF OFFLOADING TRAFFIC OF A SECONDARY CELL GROUP (SCG)	[redacted]	[redacted]	PCT	APP-Pending	US	15/580173		US-2018-0049062-A1	Yes	
32987	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE RELAY COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/835944	9936530	US-2016-0270134-A1		
32988	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE RELAY COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680006687		107211264		
32989	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE RELAY COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	17113914?		1238464		
32990	TIME SYNCHRONIZATION FOR NODES IN A WIRELESS PERSONAL AREA NETWORK (WPAN)	[redacted]	[redacted]	PCT	APP-Pending	US	15/579746		US-2018-0174731-A1		
32991	POWER SAVE IN MACHINE TYPE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	3223/CHE/2015		3223/CHE/2015		
32992	POWER SAVE IN MACHINE TYPE COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	US	15/738979		US-2018-0288845-A1		
32993	TRANSMISSION TOGGLE UPLINK COMPENSATION	[redacted]	[redacted]	NP	APP-Pending	IN	3218/CHE/2015		3218/CHE/2015		
32994	TRANSMISSION TOGGLE UPLINK COMPENSATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/738893		US-2019-0338663-A1		
32995	COMMUNICATION TERMINAL AND METHOD FOR HANDLING UPLOAD TRAFFIC CONGESTION	[redacted]	[redacted]	NP	APP-Pending	DE	102015110349?		102015110349		
32996	COMMUNICATION TERMINAL AND METHOD FOR HANDLING UPLOAD TRAFFIC CONGESTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680029078?		107637122		
32997	COMMUNICATION TERMINAL AND METHOD FOR HANDLING UPLOAD TRAFFIC CONGESTION	[redacted]	[redacted]	PCT	PAT-Active	US	15/739177	10448278	US-2018-0176818-A1		
32998	METHOD FOR DETERMINING A PRECODING MATRIX AND PRECODING MODULE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080143?		107615694		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
32995	Verfahren zum Bestimmen einer Vorcodiermatrix und Vorcodiermodul	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006628		112015006628		
33000	METHOD FOR DETERMINING A PRECODING MATRIX AND PRECODING MODULE	[redacted]	[redacted]	PCT	APP-Pending	US	15/571348		US-2018-0089427-A1		
33001	SIGNAL PROCESSING APPARATUS AND METHOD FOR PROCESSING A SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	14/751195	9817875			
33002	SIGNAL PROCESSING APPARATUS AND METHOD FOR PROCESSING A SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580029058		107624225		
33003	SIGNAL PROCESSING APPARATUS AND METHOD FOR PROCESSING A SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	DE	112015002862		112015002862		
33004	A CIRCUIT AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015107382		102015110238		
33005	A CIRCUIT AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201680030376		107980209		
33006	A CIRCUIT AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	US	15/811860		US-2018-0234060-A1		
33007	FRAMEWORK FOR UNLICENSED SPECTRUM USAGE MONITORING AND REPORTING IN LTE NETWORKS	[redacted]	[redacted]	NP	PAT-Active	US	14/998068	9699324	US-2017-0187886-A1		
33008	SYSTEMS AND METHODS FOR CROSS-LAYER BEARER SPLITTING AND CROSS-RADIO ACCESS TECHNOLOGY RETRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	14/851771		US-2017-0078890-A1		
33009	SYSTEMS AND METHODS FOR ELIMINATION OF PDCCH IN RESOURCE ALLOCATION SIGNALING FOR MTC DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/856483	10285168	US-2017-0079012-A1	Yes	
33010	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	14/863168	9693894	US-2016-0269185-A1	Yes	
33011	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680010031X		107251591	Yes	
33012	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18306465S		1246556	Yes	
33013	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-539223		2018-518092	Yes	
33014	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7022257		10-2017-0128230	Yes	
33015	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	NP	PAT-Active	US	14/827965	9693178	US-2016-0278147-A1		
33016	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	DIV	PAT-Active	US	15/632790	10271193	US-2017-0311125-A1		
33017	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	PCT	APP-Pending	CN	201580013009X		107258094		
33018	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	FPR	APP-Pending	HK	18104464S		1246555		
33019	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	EPT	APP-Pending	EP	16765370S		3272158		
33020	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNETOF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	NP	PAT-Active	TW	105100798	I615053	201635840		
33021	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	14/881019	9769694	US-2016-0269925-A1	Yes	
33022	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	15/678796	10129784	US-2018-0063741-A1	Yes	
33023	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Pending	CN	201680009193X		107211320	Yes	
33024	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	FPR	APP-Pending	HK	18103562Z		1244151	Yes	
33025	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	NP	PAT-Active	TW	105103610	I618383	201640870	Yes	
33026	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	DIV	PAT-Active	TW	106145363	I654861	201838939	Yes	
33027	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	DIV	PAT-Active	US	11/099838	7337204	US-2005-0177607-A1		
33028	CONTROL OF TRANSMISSION POWER IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Closed	US	05/417077	6751448			
33029	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	PCT	APP-Pending	CN	201580076665X		107751641	Yes	
33030	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	FPR	APP-Pending	HK	18103660S		1244386	Yes	
33031	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	EPT	APP-Pending	EP	15781477S		3275258	Yes	
33032	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-540871		2018-509812	Yes	
33033	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	PCT	PAT-Active	US	15/546257	10390236	US-2018-0020365-A1	Yes	
33034	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077025X		107258067	Yes	
33035	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	18103666Z		1244133	Yes	
33036	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	EPT	APP-Pending	EP	15886764A		3275280	Yes	
33037	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-549890	6606735	2018-518958	Yes	
33038	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	PCT	PAT-Active	US	15/553363	10390292	US-2018-0124684-A1	Yes	
33039	ANTENNA SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	14/865825		US-2017-0093031-A1		
33040	ANTENNA SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	16849742S		3353578		
33041	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015114541		102015114541		
33042	A RECEIVER AND A METHOD FOR REDUCING A DISTORTIONCOMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201680043187		107852388		
33043	RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	US	15/747771		US-2018-0219573-A1		
33044	COLLAPSING PARABOLOID DISH AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	09/588049	6625288			
33045	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077321A		107431678		
33046	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	18105923S		1246535		
33047	CELL SPECIFIC GROUP MEASUREMENT GAP FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077395X		107431957	Yes	
33048	CELL SPECIFIC GROUP MEASUREMENT GAP FOR CARRIER AGGREGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18106693Z		1247502	Yes	
33049	DEVICE-TO-DEVICE RECEIVE WINDOW SELECTION FOR INTER-CELL OPERATION	[redacted]	[redacted]	NP	APP-Pending	DE	102016104312		102016104312		
33050	RESOLVING CONCURRENT COMMUNICATIONS AT A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077595X		107431557		
33051	RESOLVING CONCURRENT COMMUNICATIONS AT A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	FPR	APP-Pending	HK	18106690Z		1247473		
33052	RESOLVING CONCURRENT COMMUNICATIONS AT A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	EPT	APP-Pending	EP	15820966S		3281326		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13053	RESOLVING CONCURRENT COMMUNICATIONS AT A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	PAT-Active	US	15/557062	10396941	US-2018-0359664-A1		
13054	CONTROL SIGNALING MECHANISMS FOR ENHANCED DEVICE-TO-DEVICE (D2D)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077420Z		107534828	Yes	
13055	CONTROL SIGNALING MECHANISMS FOR ENHANCED DEVICE-TO-DEVICE (D2D)	[redacted]	[redacted]	FPR	APP-Pending	HK	18308548		1249325	Yes	
13056	CARRIER SENSING TECHNIQUES FOR LTE-BASED TRANSMISSIONS OVER UNLICENSED CARRIERS	[redacted]	[redacted]	PCT	APP-Pending	US	15/538003		US-2018-0049241-A1		
13057	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/828071	10292183	US-2016-0302174-A1	Yes	
13058	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680014559X		107432021	Yes	
13059	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	18305928G		1246566	Yes	
13060	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	16706088		3281458	Yes	
13061	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-546202		2018-512777	Yes	
13062	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7025333		10-2017-0136511	Yes	
13063	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077579X		107980238	Yes	
13064	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	FPR	APP-Pending	HK	18313370S		1254228	Yes	
13065	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	15888719O		3281428	Yes	
13066	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-549447	6602888	2018-518129	Yes	
13067	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	PAT-Active	US	15/542262	10367860	US-2017-0374612-A1	Yes	
13068	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCD	APP-Pending	US	16/454546		US 2019-0387466 A1	Yes	
13069	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	NP	PAT-Active	US	14/861828	9918348	US-2016-0302234-A1		
13070	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	CNT	APP-Pending	US	15/881082		US-2018-0152968-A1		
13071	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	PCD	APP-Pending	CN	201811453687S		110049574		
13072	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	EP	16706089G	3281482	3281482		
13073	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	DE	16706089G	[redacted]	3281482		
13074	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	FR	16706089G	3281482	3281482		
13075	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	GB	16706089G	3281482	3281482		
13076	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	EPT	PAT-Active	NL	16706089G	3281482	3281482		
13077	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-541935		2018-514097		
13078	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7025077		10-2017-0137053		
13079	USER EQUIPMENT RADIO-FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077464Z		107409027	Yes	
13080	USER EQUIPMENT RADIO-FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	FPR	APP-Pending	HK	18306092H		1246995	Yes	
13081	USER EQUIPMENT RADIO-FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	EPT	APP-Pending	EP	15888717H		3281438	Yes	
13082	USER EQUIPMENT RADIO-FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-548012		2018-515952	Yes	
13083	USER EQUIPMENT RADIO-FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7025372		10-2017-0137054	Yes	
13084	USER EQUIPMENT RADIO FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	PCT	APP-Pending	US	15/542350		US-2018-0006774-A1	Yes	
13085	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	NP	PAT-Active	US	14/899833	9854491	US-2016-0302118-A1		
13086	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580018752O		107409351		
13087	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	FPR	APP-Pending	HK	18303683G		1244156		
13088	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-545731		2018-514966		
13089	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7025187		10-2017-0136508		
13090	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077881X		107409413	Yes	
13091	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18306691S		1247020	Yes	
13092	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15767382J		3284305	Yes	
13093	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580077843X		107431588	Yes	
13094	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18306685T		1247872	Yes	
13095	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15890347J		3286864	Yes	
13096	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/559891	10374769	US-2018-0069675-A1	Yes	
13097	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/468860		US 2019-0372736 A1	Yes	

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33092	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SEARCH	[redacted]	[redacted]	NP	PAT-Active	US	15/357751	10285118	US-2017-0181068-A1		
33093	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SEARCH	[redacted]	[redacted]	EPA	APP-Pending	EP	152019147		3185618		
33100	POSITIONING DEVICE AND METHOD FOR DETERMINING THE POSITION OF A COMMUNICATION DEVICE	[redacted]	[redacted]	EPT	APP-Pending	EP	168491793		3353566		
33101	A DECODER AND A METHOD OF DECODING	[redacted]	[redacted]	NP	PAT-Active	DE	102015115281	##########	102015115281		
33102	METHODS OF PERFORMING COMMUNICATIONS MOBILE TERMINAL DEVICES AND BASEBAND MODEMS	[redacted]	[redacted]	NP	APP-Pending	DE	102015116247		102015116247		
33103	METHODS OF PERFORMING COMMUNICATIONS MOBILE TERMINAL DEVICES AND BASEBAND MODEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/758746	10454717	US-2019-0036738-A1		
33104	RECEIVER WITH TUNABLE RECEIVING CHAIN	[redacted]	[redacted]	NP	APP-Pending	DE	102015116071		102015116071		
33105	RECEIVER WITH TUNABLE RECEIVING CHAIN	[redacted]	[redacted]	PCT	APP-Pending	US	15/760859		US 2020-0245248 A1		
33106	BEAM TRACKING CONTROL LOOP ADAPTATION BASED ON LINK QUALITY CRITERIA	[redacted]	[redacted]	NP	APP-Pending	DE	102015114875		102015114875		
33107	METHODS FOR RADIO COMMUNICATION AND COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/753896		US-2018-0248610-A1		
33108	COMMUNICATION DEVICE AND METHOD FOR COMMUNICATING USING A FREQUENCY RANGE	[redacted]	[redacted]	NP	APP-Pending	US	14/828537		US-2017-0055193-A1		
33109	COMMUNICATION DEVICE AND METHOD FOR COMMUNICATING USING A FREQUENCY RANGE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680045168		107852751		
33110	COMMUNICATION DEVICE AND METHOD FOR COMMUNICATING USING A FREQUENCY RANGE	[redacted]	[redacted]	EPT	APP-Pending	EP	168374502		3338508		
33111	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201580078163		107852319	Yes	
33112	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	FPR	APP-Pending	HK	18110791		1251379	Yes	
33113	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	APP-Pending	EP	158139307		3286866	Yes	
33114	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	US	15/560472		US-2018-0063820-A1	Yes	
33115	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	NP	PAT-Active	TW	105105252	I628937	201842836	Yes	
33116	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	[redacted]	[redacted]	NP	PAT-Active	US	14/736155	9509328	US-2016-0365867-A1		
33117	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	[redacted]	[redacted]	CNT	PAT-Active	US	15/334218	10243574	US-2017-0053388-A1		
33118	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	[redacted]	[redacted]	CNT	APP-Pending	US	16/218334		US-2019-0123751-A1		
33119	DYNAMIC LOW IF INJECTION SIDE SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/750640	9413402			
33120	DYNAMIC LOW IF INJECTION SIDE SELECTION	[redacted]	[redacted]	NP	APP-Pending	DE	102016109681		102016109681		
33121	A TRANSFORMER BASED DUPLEXER	[redacted]	[redacted]	NP	APP-Pending	DE	102016006404		102016006404		
33122	INTEGRATED ANTENNA WITH DISPLAY UNIFORMITY	[redacted]	[redacted]	NP	PAT-Active	US	14/863742	10461548	US-2017-0090098-A1		
33123	INTEGRATED ANTENNA WITH DISPLAY UNIFORMITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580049272		108028470		
33124	INTEGRATED ANTENNA WITH DISPLAY UNIFORMITY	[redacted]	[redacted]	EPT	APP-Pending	EP	168452403		3353857		
33125	BASE STATION FRONT END PREPROCESSING	[redacted]	[redacted]	NP	APP-Pending	US	15/074951		US-2016-0315674-A1		
33126	BASE STATION FRONT END PREPROCESSING	[redacted]	[redacted]	NP	APP-Pending	DE	102016105360		102016105360		
33127	SOFTWARE DEFINED CELLULAR SYSTEM WITH DISTRIBUTED ANTENNAS	[redacted]	[redacted]	NP	PAT-Active	US	14/971915	10448282	US-2016-0316356-A1		
33128	SOFTWARE DEFINED CELLULAR SYSTEM WITH DISTRIBUTED ANTENNAS	[redacted]	[redacted]	CNT	APP-Pending	US	16/552897		US 2020-0059828 A1		
33129	SOFTWARE DEFINED CELLULAR SYSTEM WITH DISTRIBUTED ANTENNAS	[redacted]	[redacted]	NP	APP-Pending	DE	102016105620		102016105620		
33130	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR PAGING USING A BITMAP OF PAGING INDICATORS	[redacted]	[redacted]	NP	PAT-Active	US	14/834963	9955453	US-2017-0064671-A1	Yes	
33131	SENSE AMPLIFIER HAVING INTEGRATED Y MULTIPLEXOR AND METHOD THEREFOR	[redacted]	[redacted]	NP	PAT-Active	US	09/543131	6643200	US-2002-0145928-A1		
33132	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201580026842		107852648	Yes	
33133	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	18111393		1251841	Yes	
33134	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	EPT	APP-Pending	EP	167931138		3295703	Yes	
33135	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	US	15/566150	10455425	US-2018-0115903-A1	Yes	
33136	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	CNT	APP-Pending	US	16/563786		US 2020-0107199 A1		
33137	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	NP	APP-Pending	TW	105111387		201703559	Yes	
33138	EVOLVED NODE-B LOCAL CONTROLLER AND METHOD FOR ALLOCATION OF SPECTRUM FOR SECONDARY USAGE	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006925		112015006925	Yes	
33139	EVOLVED NODE-B LOCAL CONTROLLER AND METHOD FOR ALLOCATION OF SPECTRUM FOR SECONDARY USAGE	[redacted]	[redacted]	PCT	APP-Pending	US	15/760576		US-2019-0045367-A1	Yes	
33140	APPARATUS AND METHOD OF PROVIDING A FLEXIBLE GUARD INTERVAL FOR BLOCK SINGLE CARRIER TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580083792		107113159	Yes	
33141	APPARATUS AND METHOD OF PROVIDING A FLEXIBLE GUARD INTERVAL FOR BLOCK SINGLE CARRIER TRANSMISSION	[redacted]	[redacted]	FPR	APP-Pending	HK	18100441		1241171	Yes	
33142	APPARATUS AND METHOD OF PROVIDING A FLEXIBLE GUARD INTERVAL FOR BLOCK SINGLE CARRIER TRANSMISSION	[redacted]	[redacted]	EPT	APP-Pending	EP	158782940		3345771	Yes	
33143	PERFORMING PRIMARY CELL FUNCTIONS IN A SECONDARY CELL	[redacted]	[redacted]	NP	PAT-Active	US	14/957688	9894702	US-2016-0338137-A1	Yes	
33144	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079587		107567694	Yes	
33145	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	FPR	APP-Pending	HK	18108575		1249299	Yes	
33146	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	EPT	APP-Pending	EP	15781485		3295722	Yes	
33147	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7030433		10-2018-0008424	Yes	
33148	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	US	15/567820		US-2018-0124708-A1	Yes	
33149	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580027015		106664175		
33150	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	17109450		1235832		
33151	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	158113589		3161989		
33152	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	201647038083		201647038083		
33153	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	PAT-Active	JP	2016-572493	6426206	2017-526209		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13158	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2016-7032969		10-2016-0147274		
13155	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580027022		106664136		
13156	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	1710966077		1235927		
13157	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	15812704.3		3161975		
13158	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Pending	IN	201647038081		201647038081		
13159	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	PAT-Active	US	15/129263	10103847	US-2017-0180086-A1		
13160	METHODS FOR PERFORMING RADIO MEASUREMENTS AND MOBILE TERMINAL DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	14/930702	10111119	US-2017-0127305-A1		
13161	METHODS FOR PERFORMING RADIO MEASUREMENTS AND MOBILE TERMINAL DEVICES	[redacted]	[redacted]	EPA	APP-Pending	EP	16192484.0		3156356		
13162	CELL CHANGE IN A MULTI-CARRIER OPERATING CELLULAR RADIO NETWORK	[redacted]	[redacted]	NP	APP-Closed	US	15/346778		US-2017-0171790-A1		
13163	CELL CHANGE IN A MULTI-CARRIER OPERATING CELLULAR RADIO NETWORK	[redacted]	[redacted]	NP	APP-Pending	DE	102016121616.8		102016121616.8		
13164	DEVICE SYSTEM AND GLOBAL NAVIGATION SATELLITE SYSTEM METHOD USING LOCAL FINE TIME INFORMATION	[redacted]	[redacted]	NP	APP-Pending	US	14/879231		US-2017-0102462-A1		
13165	DEVICE SYSTEM AND GLOBAL NAVIGATION SATELLITE SYSTEM METHOD USING LOCAL FINE TIME INFORMATION	[redacted]	[redacted]	EPA	APP-Pending	EP	16186002.8		3153886		
13166	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/855411	9768871	US-2017-0079009-A1		
13167	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPT	APP-Pending	EP	16847017.8		3351052		
13168	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	[redacted]	[redacted]	NP	APP-Pending	DE	102015115698.9		102015115698		
13169	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	[redacted]	[redacted]	PCT	PAT-Active	US	15/757375	10405333	US-2018-0242340-A1		
13170	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	[redacted]	[redacted]	CNT	APP-Pending	US	16/512461		US 2020-0015248 A1		
13171	COMMUNICATION TERMINAL AND METHOD FOR COMMUNICATING DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	201680083955.9		107926077		
13172	COMMUNICATION TERMINAL AND METHOD FOR COMMUNICATING DATA	[redacted]	[redacted]	EPT	APP-Pending	EP	16848249.4		3354113		
13173	COMMUNICATION TERMINAL AND METHOD FOR COMMUNICATING DATA	[redacted]	[redacted]	PCT	PAT-Active	US	15/758746	10405171	US-2019-0037386-A1		
13174	Beam-frequency scheduler for millimeter wave downlink multiplexing	[redacted]	[redacted]	NP	APP-Pending	DE	102015111638.3		102015111638		
13175	BEAMFORMING DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680042136.1		107852206		
13176	BEAMFORMING DEVICE	[redacted]	[redacted]	PCT	APP-Pending	US	15/745141		US-2018-0212653-A1		
13177	COMMUNICATION TERMINAL AND METHOD FOR TRANSMITTING A SIGNALING MESSAGE	[redacted]	[redacted]	NP	APP-Pending	DE	102015116221.0		102015115221		
13178	COMMUNICATION TERMINAL AND METHOD FOR TRANSMITTING A SIGNALING MESSAGE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680068459.1		108193208		
13179	COMMUNICATION TERMINAL AND METHOD FOR TRANSMITTING A SIGNALING MESSAGE	[redacted]	[redacted]	PCT	APP-Pending	US	15/752612		US-2018-0288824-A1		
13180	MOBILE TERMINAL DEVICES AND METHODS OF DETECTING REFERENCE SIGNALS	[redacted]	[redacted]	EPT	APP-Pending	EP	16837459.3		3338420		
13181	RADIO RECEIVER AND METHOD FOR DETECTING A LAYER OF A MULTI-LAYERED SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102015115736.0		102015115716		
13182	RADIO RECEIVER AND METHOD FOR DETECTING A LAYER OF A MULTI-LAYERED SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	15/755352	10476709	US-2018-0248719-A1		
13183	METHODS OF PROCESSING SIGNALS APPARATUS AND BASE STATION	[redacted]	[redacted]	EPT	APP-Pending	EP	159033778		3388083		
13184	METHODS OF PROCESSING SIGNALS APPARATUS AND BASE STATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/756391		US-2018-0287673-A1		
13185	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	EP	158288969	3295704	3295704	Yes	
13186	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	AT	158288969	3295704	3295704	Yes	
13187	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	BE	158288969	3295704	3295704	Yes	
13188	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	CH	158288969	3295704	3295704	Yes	
13189	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	DE	158288969	60000000	3295704	Yes	
13190	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	EE	158288969	3295704	3295704	Yes	
13191	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	ES	158288969	3295704	3295704	Yes	
13192	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	FR	158288969	3295704	3295704	Yes	
13193	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	GB	158288969	3295704	3295704	Yes	
13194	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	GR	158288969	3295704	3295704	Yes	
13195	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	HU	158288969	3295704	3295704	Yes	
13196	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	IE	158288969	3295704	3295704	Yes	
13197	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	NL	158288969	3295704	3295704	Yes	
13198	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	EPT	PAT-Active	SK	158288969	3295704	3295704	Yes	
13199	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	PCT	APP-Pending	IN	201747036069		201747036069	Yes	
13200	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	PCT	PAT-Active	US	15/566139	10244441	US-2018-0098253-A1	Yes	
13201	MEASUREMENT GAP CONFIGURATION IN DUAL CONNECTIVITY ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/565776		US-2018-0077596-A1	Yes	
13202	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580078904.9		107534937	Yes	
13203	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	18108550.5		1249326	Yes	
13204	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15828409.1		3295719	Yes	
13205	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/566201	10455505	US-2018-0338281-A1	Yes	
13206	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105110562		201701631	Yes	
13207	CARRIER AGGREGATION ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/565644		US-2018-0089684-A1		
13208	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079942.6		107637161	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33209	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	FPR	APP-Pending	HK	181088875		1249690	Yes	
33210	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)			EPT	APP-Pending	EP	158262303		3295758	Yes	
33211	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)			PCT	PAT-Active	US	15/566643	10375722	US-2018-0146494-A1	Yes	
33212	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	CNT	APP-Pending	US	16/848258		US 2020-0084792 A1	Yes	
33213	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580078858S		107534948	Yes	
33214	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	[redacted]	[redacted]	FPR	APP-Pending	HK	18108591X		1249327	Yes	
33215	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	[redacted]	[redacted]	EPT	APP-Pending	EP	158312504		3295727	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
33226	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-554017		2018-519692	Yes	
33221	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	[redacted]	[redacted]	PCT	APP-Pending	US	15/566611		US-2018-0302888-A1	Yes	
33222	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079975A		107637152	Yes	
33223	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18108696X		1249332	Yes	
33224	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158207035		3295757	Yes	
33225	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/566650		US-2018-0098370-A1	Yes	
33226	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/408092		US 2019-0380159 A1	Yes	
33227	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580026334X		107960188		
33228	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	[redacted]	[redacted]	FPR	APP-Pending	HK	181122817		1252894		
33229	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	IN	201747036659		201747036659		
33230	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7029479		10-2018-0006888		
33231	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Pending	US	15/565674		US-2018-0083748-A1		
33232	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079067S		108307688	Yes	
33233	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	FPR	APP-Pending	HK	181164037		1257147	Yes	
33234	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	EPT	APP-Pending	EP	158927848		3298815	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]					
33239	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-552151	6601641	2018-515987	Yes	
33240	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7029885		10-2018-0088418	Yes	
33241	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	PCT	PAT-Active	US	15/567350	10477601	US-2018-0160461-A1	Yes	
33242	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	CNT	APP-Pending	US	16/408166		US 2019-0373650 A1	Yes	
33243	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	[redacted]	[redacted]	NP	APP-Pending	TW	105111523		201642696	Yes	
33244	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB	[redacted]	[redacted]	PCT	APP-Pending	CN	201580009869T		107113807	Yes	
33245	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB	[redacted]	[redacted]	FPR	APP-Pending	HK	18300446D		1241158	Yes	
33246	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB	[redacted]	[redacted]	PCT	PAT-Active	US	15/537996	10045255	US-2017-0367007-A1	Yes	
33247	DISPLAY INTEGRATED ANTENNA	[redacted]	[redacted]	NP	APP-Pending	US	14/751707		US-2016-0378057-A1		
33248	DISPLAY INTEGRATED ANTENNA	[redacted]	[redacted]	NP	APP-Pending	CN	201510203740X		106125970		
33249	DISPLAY INTEGRATED ANTENNA	[redacted]	[redacted]	EPA	APP-Pending	EP	161641387		3098899		
33250	DISPLAY INTEGRATED ANTENNA	[redacted]	[redacted]	NP	APP-Pending	IN	201644014552		201644014552		
33251	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	14/751093	9680496	US-2016-0380646-A1		
33252	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	[redacted]	[redacted]	CNT	PAT-Active	US	15/494408	10205465	US-2017-0288692-A1		
33253	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	[redacted]	[redacted]	CNT	APP-Pending	US	16/271727		US-2019-0173485-A1		
33254	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	[redacted]	[redacted]	CNT	APP-Pending	US	16/457058		US-2019-0376925-A1		
33255	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PC5 PROTOCOL	[redacted]	[redacted]	NP	PAT-Active	US	14/751546	9699154	US-2016-0212244-A1		
33256	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PC5 PROTOCOL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580067782S		107113898		
33257	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PC5 PROTOCOL	[redacted]	[redacted]	FPR	APP-Pending	HK	181019677		1242893		
33258	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PC5 PROTOCOL	[redacted]	[redacted]	EPT	PAT-Active	EP	157939703	3288438	3288438		
33259	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PC5 PROTOCOL	[redacted]	[redacted]	EPT	PAT-Active	DE	157939703	########	3288438		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33259	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PCS PROTOCOL	[redacted]	[redacted]	PCT	APP-Pending	IN	201747019918		201747019918		
33261	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079137		107534891	Yes	
33262	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	[redacted]	[redacted]	FPR	APP-Pending	HK	18108557		1249328	Yes	
33263	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	[redacted]	[redacted]	EPT	APP-Pending	EP	15892792		3298843	Yes	
33264	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	15/569436		US-2018-0332268-A1	Yes	
33265	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	[redacted]	[redacted]	CNT	APP-Pending	US	16/808456		US-2020-0357246-A1	Yes	
33266	TRANSMITTING SYSTEM INFORMATION CHANGE NOTIFICATIONS TO MTC DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/567473		US-2018-0124585-A1		
33267	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080136		107646200	Yes	
33268	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	18108736		1248336	Yes	
33269	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	EPT	APP-Pending	EP	15864502		3304962	Yes	
33270	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	IN	201747037926		201747037926	Yes	
33271	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	PAT-Active	US	15/569695	10412592	US-2018-0132111-A1	Yes	
33272	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	CNT	APP-Pending	US	16/526403		US 2020-0029222 A1		
33273	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	15894492		3309974	Yes	
33274	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7030948		10-2018-0013862	Yes	
33275	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	[redacted]	[redacted]	PCT	PAT-Active	US	15/569505	10462773	US-2018-0302834-A1	Yes	
33276	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	[redacted]	[redacted]	CNT	APP-Pending	US	16/584651		US 2020-0128484 A1		
33277	RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE EFFICIENCY THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	09/579528	6825719			
33278	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080203		107852624	Yes	
33279	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18110878		1251761	Yes	
33280	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15896905		3329712	Yes	
33281	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201847006965		201847006965	Yes	
33282	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/747273		US-2018-0220308-A1	Yes	
33283	MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	14/864883	9980105	US-2017-0094485-A1		
33284	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	APP-Pending	EP	16185144		3148268		
33285	METHODS FOR PERFORMING WIRELESS COMMUNICATIONS MOBILE TERMINAL DEVICES AND SERVERS	[redacted]	[redacted]	NP	PAT-Active	US	14/860760	9807679	US-2017-0086131-A1		
33286	METHODS FOR PERFORMING WIRELESS COMMUNICATIONS MOBILE TERMINAL DEVICES AND SERVERS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680086343		107925944		
33287	METHODS FOR PERFORMING WIRELESS COMMUNICATIONS MOBILE TERMINAL DEVICES AND SERVERS	[redacted]	[redacted]	EPT	APP-Pending	EP	16849227		3354073		
33288	METHOD FOR PERFORMING MOBILE COMMUNICATIONS MOBILE TERMINAL DEVICE AND MOBILE BASEBAND PROCESSING CIRCUIT	[redacted]	[redacted]	PCT	APP-Pending	US	15/757378		US-2019-0029001-A1		
33289	RADIO RECEIVER AND METHOD FOR PROCESSING AN UPLINK TRANSPORT BLOCK	[redacted]	[redacted]	NP	PAT-Active	US	15/258242	10342037	US-2017-0086171-A1		
33290	RADIO RECEIVER AND METHOD FOR PROCESSING AN UPLINK TRANSPORT BLOCK	[redacted]	[redacted]	NP	APP-Pending	DE	102015115754		102015115754		
33291	MOBILE TERMINAL DEVICE AND METHOD FOR PROCESSING SIGNALS	[redacted]	[redacted]	NP	APP-Pending	US	14/865067		US-2017-0094686-A1		
33292	MOBILE TERMINAL DEVICE AND METHOD FOR GENERATING AND PROCESSING RANDOM ACCESS SIGNALS	[redacted]	[redacted]	EPA	APP-Pending	EP	16185148		3148281		
33293	METHODS FOR PERFORMING MOBILE COMMUNICATIONS BETWEEN MOBILE TERMINAL DEVICES BASE STATIONS AND NETWORK CONTROL DEVICES	[redacted]	[redacted]	NP	APP-Pending	DE	102015116250		102015116250		
33294	METHODS FOR PERFORMING MOBILE COMMUNICATIONS BETWEEN MOBILE TERMINAL DEVICES BASE STATIONS AND NETWORK CONTROL DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/758759		US-2019-0045397-A1		
33295	METHODS AND DEVICES FOR SHARED SPECTRUM ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/305931		US-2019-0191314-A1		
33296	UPLINK INTERFERENCE MANAGEMENT IN SHARED SPECTRUM NETWORKS	[redacted]	[redacted]	CNT	PAT-Active	US	16/041541	10477491	US-2019-0007909-A1		
33297	UPLINK INTERFERENCE MANAGEMENT IN SHARED SPECTRUM NETWORKS	[redacted]	[redacted]	CNT	APP-Pending	US	16/590581		US 2020-0045646 A1		
33298	UPLINK INTERFERENCE MANAGEMENT IN SHARED SPECTRUM NETWORKS	[redacted]	[redacted]	NP	APP-Pending	CN	201911004310		107071879		
33299	IDENTIFYING VICTIMS AND AGGRESSORS IN FULL DUPLEX COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082283		107852625	Yes	
33300	IDENTIFYING VICTIMS AND AGGRESSORS IN FULL DUPLEX COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	18110061		1250868	Yes	
33301	IDENTIFYING VICTIMS AND AGGRESSORS IN FULL DUPLEX COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/751003	10419145	US-2018-0241493-A1	Yes	
33302	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079954		107624255	Yes	
33303	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18108690		1249330	Yes	
33304	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15861634		3308589	Yes	
33305	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7033482		10-2018-0016492	Yes	
33306	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/571332		US-2018-0288683-A1	Yes	
33307	METHOD AND A SYSTEM FOR CONTROLLING A PLURALITY OF ELECTRONIC COMPONENTS ARBITRARILY ASSIGNABLE TO A PLURALITY OF INTEGRATED CIRCUITS OF A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	15/223521	9755867	US-2017-0063583-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13308	A METHOD AND A SYSTEM FOR CONTROLLING A PLURALITY OF ELECTRONIC COMPONENTS ARBITRARILY ASSIGNABLE TO A PLURALITY OF INTEGRATED CIRCUITS OF A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	102015114489		102015114489		
13309	MOBILE TERMINAL DEVICES MOBILE PROCESSING CIRCUITS AND METHODS OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	14/864995	10158464	US-2017-0093538-A1		
13310	MOBILE TERMINAL DEVICES MOBILE PROCESSING CIRCUITS AND METHODS OF PROCESSING SIGNALS	[redacted]	[redacted]	NP	APP-Pending	CN	201610772294		106559207		
13311	SYSTEM AND METHOD FOR DYNAMIC MARKING FOR INTERNET PROTOCOL BEARER SPLITTING	[redacted]	[redacted]	PCT	PAT-Active	US	15/568782	10465330	US-2018-0146487-A1		
13312	SYSTEM AND METHOD FOR DYNAMIC MARKING FOR INTERNET PROTOCOL BEARER SPLITTING	[redacted]	[redacted]	CNT	APP-Pending	US	16/508251		US 2020-0015243 A1		
13313	LOW LATENCY CONTENTION BASED SCHEDULING REQUEST	[redacted]	[redacted]	PCT	APP-Pending	US	15/575320		US-2018-0152950-A1		
13314	UPLINK RESOURCE COLLISION REDUCTION IN FD-MIMO	[redacted]	[redacted]	EPT	APP-Pending	EP	15895846?		3311516	Yes	
13315	UPLINK RESOURCE COLLISION REDUCTION IN FD-MIMO	[redacted]	[redacted]	PCT	APP-Pending	IN	201747041251		201747041251	Yes	
13316	UPLINK RESOURCE COLLISION REDUCTION IN FD-MIMO	[redacted]	[redacted]	PCT	PAT-Active	US	15/572394	10454623	US-2018-0145794-A1	Yes	
13317	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080058		107637085	Yes	
13318	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18108884?		1249674	Yes	
13319	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158262568		3311577	Yes	
13320	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-558669	6615913	2018-527769	Yes	
13321	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/570826		US-2018-0139254-A1	Yes	
13322	ADAPTIVE VIDEO CONTENT FOR CELLULAR COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/569168		US-2018-0152488-A1		
13323	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080321X		107683613	Yes	
13324	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	1830956290		1250294	Yes	
13325	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158288017		3314918	Yes	
13326	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/577292		US-2018-0152819-A1	Yes	
13327	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079852?		107667562	Yes	
13328	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	FPR	APP-Pending	HK	18108885?		1249689	Yes	
13329	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	ETD	APP-Pending	EP	158366388		3370466	Yes	
13330	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	PCT	APP-Pending	IN	201747039562		201747039562	Yes	
13331	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-559368		2018-538886	Yes	
13332	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)	[redacted]	[redacted]	PCT	APP-Pending	US	15/573377		US-2018-0109346-A1	Yes	
13333	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079134?		107478945	Yes	
13334	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	EP	158927913	3298820	3298820	Yes	
13335	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	DE	158927913	########	3298820		
13336	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	FR	158927913	3298820	3298820		
13337	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	GB	158927913	3298820	3298820		
13338	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	EPT	PAT-Active	NL	158927913	3298820	3298820		
13339	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	PCT	APP-Pending	IN	201747037187		201747037187	Yes	
13340	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	[redacted]	[redacted]	PCT	PAT-Active	US	15/565456	10271243	US-2018-0124642-A1	Yes	
13341	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079551?		107534985	Yes	
13342	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18108548?		1249324	Yes	
13343	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	158261065		3304998	Yes	
13344	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-552441		2018-527769	Yes	
13345	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/571506		US-2018-0310324-A1	Yes	
13346	METHODS IN SHORT RANGE RADIO COMMUNICATION MASTER SUBSYSTEMS MOBILE DEVICES AND MULTI-MODE RADIO COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/994257	9832598	US-2017-0134882-A1		
13347	METHODS IN SHORT RANGE RADIO COMMUNICATION MASTER SUBSYSTEMS MOBILE DEVICES AND MULTI-MODE RADIO COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPA	APP-Pending	EP	161971031		3196366		
13348	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082647?		107925648		
13349	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	EPT	APP-Pending	EP	15779020?		3353979		
13350	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	PCT	PAT-Active	US	15/754043	10454748	US-2018-0248740-A1		
13351	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081536?		107852291	Yes	
13352	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	FPR	APP-Pending	HK	1811131??		1251985	Yes	
13353	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	APP-Pending	EP	158978924		3320639	Yes	
13354	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Pending	IN	201847003964		201847003964	Yes	
13355	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Pending	US	15/741619		US-2018-0198504-A1	Yes	
13356	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080056?		107667569	Yes	
13357	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	1810859??		1248962	Yes	
13358	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158973768		3318092	Yes	
13359	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7002737		10-2018-0022908	Yes	
13360	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/575544		US-2018-0132190-A1	Yes	
13361	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080384?		107771809	Yes	
13362	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	1811098??		1251765	Yes	

	A	B	C	D	E	F	G	H	I	J	K
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13363	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	158965905		3314967	Yes	
13364	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7002280		10-2018-0021832	Yes	
13365	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/578785		US-2018-0152269-A1	Yes	
13366	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080802950		107736038	Yes	
13367	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	18109473.9		1250117	Yes	
13368	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS	[redacted]	[redacted]	EPT	APP-Pending	EP	158972968		3318072	Yes	
13369	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-562044		2018-528861	Yes	
13370	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Pending	US	15/577885		US-2018-0167790-A1	Yes	
13371	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/928759	9906344	US-2016-0248561-A1	Yes	
13372	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	CNT	PAT-Active	US	15/873629	10326575	US-2018-0212727-A1	Yes	
13373	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	CNT	APP-Pending	US	16/408107		US 2019-0372733 A1	Yes	
13374	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080030.4		107751450	Yes	
13375	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	18103655.0		1244360	Yes	
13376	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	167663025		3262765	Yes	
13377	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7020471		10-2017-0118705	Yes	
13378	PREAMBLE-BASED TRANSMISSION POWER DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	14/872069	10075248	US-2017-0093504-A1		
13379	PREAMBLE-BASED TRANSMISSION POWER DETECTION	[redacted]	[redacted]	NP	APP-Pending	CN	201610077197.7		106559147		
13380	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	BR	112017005397-7		112017005397-7	Yes	
13381	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	15788517.9		3207737	Yes	
13382	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18103021.0		1244189	Yes	
13383	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	ID	P00201701701	IDP000066335	2017/13647	Yes	
13384	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	IN	201747008475		201747008475	Yes	
13385	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	JP	2017-517310	6472876	2017-533643	Yes	
13386	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2017-7007267	10-2012571	10-2017-0045262	Yes	
13387	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	EG	2017108822	2675538	2017108822	Yes	
13388	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/512511		US-2018-0375759-A1	Yes	
13389	APPARATUS SYSTEM AND METHOD OF CELLULAR-ASSISTED FINE TIME MEASUREMENT	[redacted]	[redacted]	NP	APP-Pending	TW	105121095		201707480	Yes	
13390	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	15/229896	9705713	US-2017-0070375-A1		
13391	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION	[redacted]	[redacted]	EPA	APP-Pending	EP	15184083.9		3139528		
13392	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	EPT	APP-Pending	EP	15779018.9		3353974		
13393	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	US	15/753551		US-2018-0262383-A1		
13394	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	NP	PAT-Active	US	14/861005	9413457			
13395	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	EP	161845367	3148093	3148093		
13396	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	DE	161845367	3148093	3148093		
13397	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	FR	161845367	3148093	3148093		
13398	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	GB	161845367	3148093	3148093		
13399	HYBRID I/Q AND POLAR TRANSMITTER	[redacted]	[redacted]	EPA	PAT-Active	NL	161845367	3148093	3148093		
13400	CLOSED-LOOP POWER CONTROL IN MULTI-TRANSMISSION WIRELESS SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	14/865365	10015745	US-2017-0094606-A1		
13401	CLOSED-LOOP POWER CONTROL IN MULTI-TRANSMISSION WIRELESS SYSTEMS	[redacted]	[redacted]	EPA	APP-Pending	EP	161851563		3148263		
13402	ENABLING RADIO FREQUENCY MULTIPLEXING IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	14/825878	10128872	US-2017-0063404-A1		
13403	ENABLING RADIO FREQUENCY MULTIPLEXING IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPA	APP-Pending	EP	161820683		3136609		
13404	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY	[redacted]	[redacted]	NP	PAT-Active	US	14/872015	10455511	US-2017-0094606-A1		
13405	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY	[redacted]	[redacted]	CNT	APP-Pending	US	16/562821		US 2020-0077361 A1		
13406	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY	[redacted]	[redacted]	EPT	APP-Pending	EP	168527670		3357162		
13407	SECURE FIRMWARE UPGRADE FOR CELLULAR IOT	[redacted]	[redacted]	PCT	APP-Pending	US	15/575906		US-2018-0150289-A1		
13408	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680042985.1		107852321	Yes	
13409	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18111311.9		1251842	Yes	
13410	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	168309540		3329634	Yes	
13411	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201847006966		201847006966	Yes	
13412	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/573314	10420083	US-2018-0110081-A1	Yes	
13413	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/406808		US 2019-0373597 A1	Yes	
13414	SYSTEMS AND METHODS FOR DISTRIBUTED FAIR RESOURCE ALLOCATION IN MULTI RADIO ACCESS TECHNOLOGY BASED HETEROGENEOUS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082078.6		107852733		
13415	SYSTEMS AND METHODS FOR DISTRIBUTED FAIR RESOURCE ALLOCATION IN MULTI RADIO ACCESS TECHNOLOGY BASED HETEROGENEOUS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	18111312.8		1251986		
13416	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082146.9		107852213	Yes	
13417	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18111313.7		1251987	Yes	
13418	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	EP	158346924	3329608	3329608	Yes	
13419	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	AT	158346924	3329608	3329608	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33420	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	BE	158346924	3329608	3329608	Yes	
33421	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	CH	158346924	3329608	3329608	Yes	
33422	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	DE	158346924	3329608	3329608	Yes	
33423	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	EE	158346924	3329608	3329608	Yes	
33424	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	ES	158346924	3329608	3329608	Yes	
33425	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	FR	158346924	3329608	3329608	Yes	
33426	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	GB	158346924	3329608	3329608	Yes	
33427	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	GR	158346924	3329608	3329608	Yes	
33428	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	HU	158346924	3329608	3329608	Yes	
33429	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION			EPT	PAT-Active	IE	158346924	3329608	3329608	Yes	
33430	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	NL	158346924	3329608	3329608	Yes	
33431	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	EPT	PAT-Active	SK	158346924	3329608	3329608	Yes	
33432	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELLOPERATION	[redacted]	[redacted]	PCT	APP-Pending	IN	201847006968		201847006968	Yes	
33433	NETWORK DISCOVERY AND BEAM ACQUISITION IN 5G RAT BEAM CELL OPERATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/747609		US-2018-0241458-A1	Yes	
33434	DYNAMIC SPECTRUM ACCESS WITH FLEXIBLE BANDWIDTH FOR LICENSED SHARED ACCESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016003526B		112016003526B	Yes	
33435	DYNAMIC SPECTRUM ACCESS WITH FLEXIBLE BANDWIDTH FOR LICENSED SHARED ACCESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/782481		US-2018-0206214-A1	Yes	
33436	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082131.3		107852220	Yes	
33437	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	18110877.7		1251730	Yes	
33438	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15828796.1		3329608	Yes	
33439	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7005824		10-2018-0034612	Yes	
33440	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/747397	10411782	US-2018-0219605-A1	Yes	
33441	RECEIVE BEAM INDICATION FOR 5G SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/562113		US 2020-0036429 A1		
33442	PHYSICAL BROADCAST CHANNEL DESIGN	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082086.X		107925530	Yes	
33443	PHYSICAL BROADCAST CHANNEL DESIGN	[redacted]	[redacted]	FPR	APP-Pending	HK	18112156.5		1252828	Yes	
33444	PHYSICAL BROADCAST CHANNEL DESIGN	[redacted]	[redacted]	EPT	APP-Pending	EP	15899506.0		3329626	Yes	
33445	PHYSICAL BROADCAST CHANNEL DESIGN	[redacted]	[redacted]	PCT	APP-Pending	US	15/565466		US-2018-0131491-A1	Yes	
33446	PHYSICAL BROADCAST CHANNEL DESIGN	[redacted]	[redacted]	CNT	APP-Pending	US	16/808461		US-2019-0349913-A1	Yes	
33447	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680043585.2		107852314	Yes	
33448	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	[redacted]	[redacted]	FPR	APP-Pending	HK	18110879.5		1251738	Yes	
33449	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-554827		2018-526838	Yes	
33450	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	[redacted]	[redacted]	PCT	APP-Pending	US	15/746771		US-2018-0213468-A1	Yes	
33451	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081965.0		107925864	Yes	
33452	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	18113008.3		1253874	Yes	
33453	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	EP	15828894.8	3329703	3329703	Yes	
33454	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	DE	158288944	3329703	3329703	Yes	
33455	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	FR	158288944	3329703	3329703	Yes	
33456	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	GB	158288944	3329703	3329703	Yes	
33457	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	EPT	PAT-Active	NL	158288944	3329703	3329703	Yes	
33458	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-554888		2018-522433	Yes	
33459	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/741285		US-2018-0205508-A1	Yes	
33460	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081904.4		107852565	Yes	
33461	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	18111316.4		1251989	Yes	
33462	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Pending	IN	201847006196		201847006196	Yes	
33463	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	PCT	PAT-Active	JP	2018-503587	6513877	2018-527831	Yes	
33464	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7005422		10-2018-0034550	Yes	
33465	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Pending	US	15/741283		US-2018-0184390-A1	Yes	
33466	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15823478.5		3326408	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
33471	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	IN	201847005959		201847005959	Yes	
33472	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/745890		US-2018-0227219-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33473	CHANNEL QUALITY INDEX (CQI) REPORTING FOR SUPERPOSITION TRANSMISSIONS SCHEMES	[redacted]	[redacted]	PCT	APP-Pending	US	15/747435		US-2018-0220399-A1	Yes	
33474	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082029		107852757		
33475	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)	[redacted]	[redacted]	FPR	APP-Pending	HK	181113244		1251996		
33476	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)	[redacted]	[redacted]	EPT	APP-Pending	EP	158208747		3329729		
33477	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7005793		10-2018-0034606		
33478	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)	[redacted]	[redacted]	PCT	APP-Pending	US	15/747221		US-2018-0220452-A1		
33479	BEARER SPLITTING	[redacted]	[redacted]	PCT	APP-Pending	US	15/743403		US-2018-0206282-A1		
33480	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081913		108029148	Yes	
33481	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	[redacted]	[redacted]	FPR	APP-Pending	HK	181137273		1254716	Yes	
33482	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	[redacted]	[redacted]	EPT	APP-Pending	EP	158262089		3326423	Yes	
33483	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7005212		10-2018-0034524	Yes	
33484	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	[redacted]	[redacted]	PCT	APP-Pending	US	15/745868		US-2018-0213577-A1	Yes	
33485	PERFORMING MISSION CRITICAL COMMUNICATIONS AT A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006779		112015006779	Yes	
33486	PERFORMING MISSION CRITICAL COMMUNICATIONS AT A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	US	15/748157		US-2018-0227958-A1	Yes	
33487	PERFORMING MISSION CRITICAL COMMUNICATIONS AT A USER EQUIPMENT (UE)	[redacted]	[redacted]	NP	APP-Pending	TW	105121021		201717677	Yes	
33488	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081888		107925875		
33489	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	FPR	APP-Pending	HK	181121583		1252830		
33490	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	EPT	APP-Pending	EP	158997742		3326424		
33491	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	PCT	APP-Pending	IN	201847006197		201847006197		
33492	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	PCT	APP-Pending	JP	2018-502202		2018-528650		
33493	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7005368		10-2018-0034543		
33494	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	[redacted]	[redacted]	PCT	PAT-Active	US	15/746865	10327143	US-2018-0124511-A1		
33495	IMS EMERGENCY CALL ROUTING TECHNIQUES	[redacted]	[redacted]	EPT	APP-Pending	EP	158262519		3332525	Yes	
33496	IMS EMERGENCY CALL ROUTING TECHNIQUES	[redacted]	[redacted]	PCT	APP-Pending	US	15/750825		US-2018-0227419-A1	Yes	
33497	IMS EMERGENCY CALL ROUTING TECHNIQUES	[redacted]	[redacted]	NP	APP-Pending	TW	105121054		201722126	Yes	
33498	UCI FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006784		112015006784	Yes	
33499	UCI FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/741911		US-2018-0205525-A1	Yes	
33500	OPTIMIZED SCHEDULING STRATEGIES FOR DUAL CONNECTIVITY AND LINK AGGREGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	167281682		3459316	Yes	
33501	ENHANCED PHYSICAL SIGNAL STRUCTURE FOR LTE V2V COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006792		112015006792		
33502	ENHANCED PHYSICAL SIGNAL STRUCTURE FOR LTE V2V COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/751262		US-2018-0227155-A1		
33503	DEMODULATION IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	158287895		3335352	Yes	
33504	DEMODULATION IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/744009		US-2018-0212733-A1	Yes	
33505	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081712		107852196	Yes	
33506	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING	[redacted]	[redacted]	FPR	APP-Pending	HK	181113253		1251997	Yes	
33507	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING	[redacted]	[redacted]	PCT	APP-Pending	US	15/743094		US-2018-0081751-A1	Yes	
33508	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING	[redacted]	[redacted]	NP	APP-Pending	TW	105121244		201717692	Yes	
33509	MEASUREMENT FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006793		112015006793	Yes	
33510	MEASUREMENT FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/742806		US-2018-0206140-A1	Yes	
33511	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081637		107836088	Yes	
33512	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO	[redacted]	[redacted]	FPR	APP-Pending	HK	181108731		1251729	Yes	
33513	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO	[redacted]	[redacted]	PCT	APP-Pending	US	15/743830		US-2018-0205438-A1	Yes	
33514	MULTI-USER MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081726		107852295	Yes	
33515	MULTI-USER MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	FPR	APP-Pending	HK	181113299		1252000	Yes	
33516	MULTI-USER MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	PAT-Active	US	15/744007	10382107	US-2018-0198495-A1	Yes	
33517	HARQ FEEDBACK CONFIGURATION TECHNIQUES FOR BROADBAND WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	158263113		3335347	Yes	
33518	HARQ FEEDBACK CONFIGURATION TECHNIQUES FOR BROADBAND WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/751451		US 2020-0204328 A1	Yes	
33519	CONFIGURATION OF MEASUREMENT SUBFRAMES FOR A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	DE	112016003675		112016003675		
33520	CONFIGURATION OF MEASUREMENT SUBFRAMES FOR A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Pending	US	15/749487		US-2018-0270386-A1		
33521	METHODS TO ENABLE HIGH DATA RATE RELAY OPERATION USING D2D AIR-INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006791		112015006791	Yes	
33522	METHODS TO ENABLE HIGH DATA RATE RELAY OPERATION USING D2D AIR-INTERFACE	[redacted]	[redacted]	PCT	PAT-Active	US	15/742801	10484526	US-2018-0206176-A1	Yes	
33523	METHODS TO ENABLE HIGH DATA RATE RELAY OPERATION USING D2D AIR-INTERFACE	[redacted]	[redacted]	NP	APP-Pending	TW	105121570		201729554	Yes	
33524	RESOURCE ACCESS IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	158262671		3335496	Yes	
33525	RESOURCE ACCESS IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/748548	10432754	US-2018-0206260-A1	Yes	
33526	RESOURCE ACCESS IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/515519		US 2020-0015255 A1	Yes	
33527	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580041653		107852424		
33528	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	FPR	APP-Pending	HK	181113315		1252002		
33529	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	EPT	APP-Pending	EP	167459205		3335801		
33530	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	PCT	APP-Pending	US	15/743168		US-2018-0198531-A1		

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13531	METHOD OF MEASUREMENT GAP ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/743915		US-2018-0213425-A1	Yes	
13532	AUTOMATIC GAIN CONTROL GAIN ADJUSTMENT			NP	PAT-Active	US	15/186663	9844012	US-2017-0048808-A1		
13533	AUTOMATIC GAIN CONTROL GAIN ADJUSTMENT			EPA	APP-Pending	EP	161793583		3131200		
13534	USER EQUIPMENT CAPABILITY REPORTING			PCT	APP-Pending	CN	201580081684S		107925870	Yes	
13535	USER EQUIPMENT CAPABILITY REPORTING			FPR	APP-Pending	HK	181121654		1253511	Yes	
13536	USER EQUIPMENT CAPABILITY REPORTING			EPT	APP-Pending	EP	158234799		3335450	Yes	
13537	USER EQUIPMENT CAPABILITY REPORTING			PCT	APP-Pending	US	15/743562		US-2018-0206113-A1	Yes	
13538	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND			PCT	APP-Pending	CN	201580081695S		107852747	Yes	
13539	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND			FPR	APP-Pending	HK	181096307		1250295	Yes	
13540	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND			EPT	APP-Pending	EP	15834696S		3335508	Yes	
13541	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND			PCT	APP-Pending	US	15/751127		US-2018-0234886-A1	Yes	
13542	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION			PCT	APP-Pending	CN	201680041535O		107852270	Yes	
13543	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION			FPR	APP-Pending	HK	181106722		1251736	Yes	
13544	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION			EPT	APP-Pending	EP	167180686		3335340	Yes	
13545	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION			PCT	APP-Pending	US	15/745409		US-2018-0212740-A1	Yes	
13546	BEAMFORMING TRAINING REFERENCE SIGNAL DESIGN			PCT	APP-Pending	DE	112015006811Z		112015006811	Yes	
13547	BEAMFORMING TRAINING REFERENCE SIGNAL DESIGN			PCT	APP-Pending	US	15/746983		US-2019-0013848-A1	Yes	
13548	TRANSMIT BEAMFORMING			PCT	APP-Pending	CN	201580081835T		107852705	Yes	
13549	TRANSMIT BEAMFORMING			FPR	APP-Pending	HK	181118025		1252893	Yes	
13550	TRANSMIT BEAMFORMING			PCT	PAT-Active	US	15/747006	10484062	US-2018-0212659-A1	Yes	
13551	MACHINE TYPE COMMUNICATION RELAYING			PCT	APP-Pending	DE	112015006819T		112015006819	Yes	
13552	MACHINE TYPE COMMUNICATION RELAYING			PCT	PAT-Active	US	15/745572	10477620	US-2018-0213379-A1	Yes	
13553	FLEXIBLE CSI RS CONFIGURATION FOR FD-MIMO SYSTEMS			PCT	APP-Pending	CN	201580081830X		107852233	Yes	
13554	FLEXIBLE CSI RS CONFIGURATION FOR FD-MIMO SYSTEMS			FPR	APP-Pending	HK	181118267		1252517	Yes	
13555	FLEXIBLE CSI RS CONFIGURATION FOR FD-MIMO SYSTEMS			PCT	PAT-Active	US	15/753966	10312986	US-2018-0219601-A1	Yes	
13556	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION			PCT	APP-Pending	CN	201580081854X		107852628		
13557	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION			FPR	APP-Pending	HK	181118285		1252519		
13558	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION			EPT	APP-Pending	EP	158288393		3338479		
13559	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION			PCT	APP-Pending	US	15/746341		US-2018-0234869-A1		
13560	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION			PCT	APP-Pending	CN	201580084999S		108293028		
13561	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION			EPT	APP-Pending	EP	159115039		3395025		
13562	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION			PCT	APP-Pending	US	15/778246		US-2018-0351590-A1		
13563	ELECTRICAL SYSTEMS AND METHODS FOR PERFORMING OUT-OF-BAND COMMUNICATIONS			PCT	APP-Pending	US	15/771426		US-2018-0343150-A1		
13564	COMMUNICATION TERMINAL AND METHOD FOR RECEIVING DATA			EPA	APP-Pending	EP	152001236		3182662		
[redacted]											
13568	RADIO COMMUNICATION DEVICES AND METHODS FOR PERFORMING WIRELESS PEER-TO-PEER DISCOVERY			NP	PAT-Active	US	14/948488	9832630	US-2017-0150337-A1		
13570	RADIO COMMUNICATION DEVICES AND METHODS FOR PERFORMING WIRELESS PEER-TO-PEER DISCOVERY			EPA	APP-Pending	EP	163541737		3171618		
[redacted]											
13573	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION			NP	APP-Pending	US	14/864974		US-2017-0094678-A1		
13574	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION			NP	APP-Pending	CN	201610730052S		106598899		
13575	CIRCUIT ARRANGEMENT MOBILE DEVICE AND METHOD FOR AMPLIFYING A SIGNAL			PCT	PAT-Active	US	15/758736	10432160	US-2018-0302052-A1		
13576	Communication device and method for signal determination in radio communication			NP	PAT-Active	US	14/998117	9826921	US-2017-0187554-A1		
13577	METHOD FOR SOLVING CONFLICTS IN SCHEDULING CELL BROADCAST MESSAGE RECEPTION AND IDLE MODE TASKS OF A MOBILE DEVICE			NP	PAT-Active	US	15/354452	10021716	US-2017-0181184-A1		
13578	METHOD FOR SOLVING CONFLICTS IN SCHEDULING CELL BROADCAST MESSAGE RECEPTION AND IDLE MODE TASKS OF A MOBILE DEVICE			NP	APP-Pending	DE	102015122184S		102015122184		
13579	HYBRID I-Q POLAR TRANSMITTER WITH QUADRATURE LOCAL OSCILLATOR (LO) PHASE CORRECTION			NP	PAT-Active	US	15/071867	9565043			
13580	HYBRID I-Q POLAR TRANSMITTER WITH QUADRATURE LOCAL OSCILLATOR (LO) PHASE CORRECTION			PCT	APP-Pending	DE	112017001337S		112017001327		
13581	APPARATUS FOR REDUCING A MAGNETIC COUPLING BETWEEN A FIRST ELECTRONIC CIRCUIT AND A SECOND ELECTRONIC CIRCUIT			EPA	APP-Pending	EP	152001517		3182618		
13582	APPARATUS FOR REDUCING A MAGNETIC COUPLING BETWEEN A FIRST ELECTRONIC CIRCUIT AND A SECOND ELECTRONIC CIRCUIT			PCT	PAT-Active	US	15/776083	10333630	US-2018-0331769-A1		
13583	MULTI-HARMONIC MATCHING NETWORKS			NP	PAT-Active	US	14/978231	9979375	US-2017-0179917-A1		
13584	MULTI-HARMONIC MATCHING NETWORKS			CNT	APP-Pending	US	15/926360		US-2018-0241368-A1		
13585	MULTI-HARMONIC MATCHING NETWORKS			PCT	APP-Pending	CN	201580080605S		108792928		
13586	MULTI-HARMONIC MATCHING NETWORKS			EPT	APP-Pending	EP	168130466		3394986		
13587	AGGREGATED SIGNALING FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES			NP	APP-Pending	TW	105135565		201731269	Yes	
13588	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION			PCT	APP-Pending	CN	201580081958O		107852264	Yes	

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13588	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION	[redacted]	[redacted]	FPR	APP-Pending	HK	181107925		1251380	Yes	
13590	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/753053		US-2018-0254853-A1	Yes	
13591	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	TW	105123758		201709708	Yes	
13592	MANAGING ASPECTS OF RECEIVE BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006838		112015006838	Yes	
13593	MANAGING ASPECTS OF RECEIVE BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	US	15/747010		US-2018-0219594-A1	Yes	
13594	MANAGING ASPECTS OF RECEIVE BEAMFORMING	[redacted]	[redacted]	NP	APP-Pending	TW	105122884		201709681	Yes	
13595	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081928		107852212	Yes	
13596	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	181118294		1252520	Yes	
13597	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/747027	10833698	US-2019-0013857-A1	Yes	
13598	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105123603		201711803	Yes	
13599	BEARER BINDING IN THE PRESENCE OF A UE-TO-NETWORK RELAY	[redacted]	[redacted]	NP	APP-Pending	TW	105121419		201709767		
13600	INDICATION OF TDD UPLINK AND DOWNLINK CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006733		112015006733	Yes	
13601	INDICATION OF TDD UPLINK AND DOWNLINK CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/747270		US-2018-0220407-A1	Yes	
13602	INDICATION OF TDD UPLINK AND DOWNLINK CONFIGURATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	105123364		201730889	Yes	
13603	CIOT ARCHITECTURE FOR EFFICIENT DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	DE	112016003692		112016003692	Yes	
13604	CIOT ARCHITECTURE FOR EFFICIENT DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	15/743574		US-2018-0206093-A1	Yes	
13605	CIoT ARCHITECTURE FOR EFFICIENT DATA TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	TW	105121768		201717583	Yes	
13606	AN APPARATUS AND METHOD FOR REPORTING SYSTEM FRAME NUMBER (SFN) AND SUBFRAME OFFSET IN DUAL CONNECTIVITY (DC) ENHANCEMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	15902465.2		3342203	Yes	
13607	APPARATUS AND METHOD FOR REPORTING SYSTEM FRAME NUMBER (SFN) AND SUBFRAME OFFSET IN DUAL CONNECTIVITY (DC) ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/755529		US-2018-0249463-A1	Yes	
13608	MULTI-USER BASED SPLITTING FOR MULTI-RAT AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081488		107852635	Yes	
13609	MULTI-USER BASED SPLITTING FOR MULTI-RAT AGGREGATION	[redacted]	[redacted]	FPR	APP-Pending	HK	181107956		1251395	Yes	
13610	MULTI-USER BASED SPLITTING FOR MULTI-RAT AGGREGATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/742878	10356853	US-2018-0376366-A1	Yes	
13611	COMMUNICATION OF CONGESTION CONTROL INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080862		107113650		
13612	COMMUNICATION OF CONGESTION CONTROL INFORMATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18101960		1242894		
13613	COMMUNICATION OF CONGESTION CONTROL INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15825611		3248413		
13618	FALLBACK MECHANISM TO DETECT ENHANCED COVERAGE USAGE	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006802		112015006802		
13615	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081629		107873138	Yes	
13616	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	18111845		1252535	Yes	
13617	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	[redacted]	[redacted]	EPT	APP-Pending	EP	15834598		3335468	Yes	
13618	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	US	15/751836		US-2018-0241486-A1	Yes	
13619	DUAL CONNECTIVITY FOR RELIABILITY	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006863		112015006863	Yes	
13620	DUAL CONNECTIVITY FOR RELIABILITY	[redacted]	[redacted]	PCT	APP-Pending	US	15/748717		US-2018-0235022-A1	Yes	
13621	DUAL CONNECTIVITY FOR RELIABILITY	[redacted]	[redacted]	NP	APP-Pending	TW	105123595		201720184	Yes	
13622	WIRELESS PERSONAL AREA NETWORK UNDERLYING CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006864		112015006864	Yes	
13623	WIRELESS PERSONAL AREA NETWORK UNDERLYING CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/755536		US-2018-0255611-A1	Yes	
13624	WIRELESS PERSONAL AREA NETWORK UNDERLYING CELLULAR NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	105123058		201713143	Yes	
13625	GRANT-LESS PUSCH UPLINK	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006876		112015006876	Yes	
13626	GRANT-LESS PUSCH UPLINK	[redacted]	[redacted]	PCT	APP-Pending	US	15/756121		US-2018-0167161-A1	Yes	
13627	GRANT-LESS PUSCH UPLINK	[redacted]	[redacted]	NP	APP-Pending	TW	105121576		201711419	Yes	
13628	METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006872		112015006872	Yes	
13629	METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/749307		US-2018-0227148-A1	Yes	
13630	METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105123768		201730209	Yes	
13631	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006907		112015006907	Yes	
13632	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/758305	10382111	US-2018-0269945-A1	Yes	
13633	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105124336		201720071	Yes	
13634	METHODS AND DEVICES FOR CELL SEARCH	[redacted]	[redacted]	NP	APP-Pending	US	15/086252		US-2017-0289960-A1		
13635	METHODS AND DEVICES FOR CELL SEARCH	[redacted]	[redacted]	NP	APP-Pending	CN	201710184983		107277893		
13636	METHODS AND DEVICES FOR CELL SEARCH	[redacted]	[redacted]	EPA	APP-Pending	EP	17158538		3226621		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
13641	SYSTEM AND METHOD FOR EMERGENCY SECURE USER PLANE LOCATION POSITIONING	[redacted]	[redacted]	EPA	APP-Pending	EP	161984471		3185593		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
13646	EQUALIZER AND METHOD FOR EQUALIZING A RECEIVE SIGNAL	[redacted]	[redacted]	EPA	APP-Pending	EP	153955388		3179680		
13647	EQUALIZER AND METHOD FOR EQUALIZING A RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	US	15/777537		US-2018-0337804-A1		
13648	DEVICE AND METHOD FOR RADIO ACCESS TECHNOLOGY SEARCH	[redacted]	[redacted]	NP	PAT-Active	US	14/964600	9763341	US-2017-0171799-A1		
13649	DEVICE AND METHOD FOR RADIO ACCESS TECHNOLOGY SEARCH	[redacted]	[redacted]	EPA	APP-Pending	EP	161966122		3179775		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
13651	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	[redacted]	[redacted]	NP	PAT-Active	US	15/357778	10178663	US-2017-0181148-A1		
13652	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	[redacted]	[redacted]	EPA	PAT-Active	EP	152019667	3185646	3185646		
13653	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	[redacted]	[redacted]	EPA	PAT-Active	DE	152019667	3185646	3185646		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13654	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	[redacted]	[redacted]	EPA	PAT-Active	FR	152019667	3185648	3185649		
13655	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	[redacted]	[redacted]	EPA	PAT-Active	GB	152019667	3185648	3185648		
13656	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	US	15/356806	9825772	US-2017-0180066-A1		
13657	CIRCUIT AND A METHOD FOR ATTACHING A TIME STAMP TO A TRACE MESSAGE	[redacted]	[redacted]	NP	APP-Pending	US	15/350318		US-2017-0180236-A1		
13658	MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	15/355092		US-2017-0180560-A1		
13659	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	NP	APP-Pending	DE	102015122384		102015122388		
13660	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580085762		108370358		
13661	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15811781		3395026		
13662	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/775845		US-2018-0331878-A1		
13663	COMMUNICATION TERMINAL AND METHOD FOR CHANNEL ESTIMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	15910838		3331601		
13664	COMMUNICATION TERMINAL AND METHOD FOR CHANNEL ESTIMATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/776098	10461967	US-2018-0376498-A1		
13665	METHOD AND DEVICE FOR TEMPERATURE CONTROL IN A RADIO RECEIVER	[redacted]	[redacted]	NP	APP-Pending	US	15/347880		US-2017-0187745-A1		
13666	METHOD AND DEVICE FOR TEMPERATURE CONTROL IN A RADIO RECEIVER	[redacted]	[redacted]	NP	APP-Pending	DE	102015116280		102015115928		
13667	DEVICE AND METHOD FOR DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/776800		US-2018-0332491-A1		
13668	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	15/356767	9883470	US-2017-0181107-A1		
13669	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	DE	102015122441	[redacted]	102015122441		
13670	MOBILE TERMINAL DEVICE AND METHOD FOR PROCESSING SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	15/356776	10153712	US-2017-0180159-A1		
13671	MOBILE TERMINAL DEVICE AND METHOD FOR PROCESSING SIGNALS	[redacted]	[redacted]	NP	APP-Pending	DE	102015122336		102015122336		
13672	AIR INTERFACE SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004241		112016004134	Yes	
13673	AIR INTERFACE SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105125827		201720222	Yes	
13674	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680048038		107925605	Yes	
13675	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	[redacted]	[redacted]	FPR	APP-Pending	HK	181122243		1252787	Yes	
13676	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	[redacted]	[redacted]	PCT	PAT-Active	US	15/751676	10477591	US-2018-0235013-A1	Yes	
13677	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	[redacted]	[redacted]	NP	APP-Pending	TW	105124238		201720211	Yes	
13678	RADIO NETWORK ACCESS OF WEARABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006894		112015006894	Yes	
13679	RADIO NETWORK ACCESS OF WEARABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/749728		US-2018-0213582-A1	Yes	
13680	RADIO NETWORK ACCESS OF WEARABLE DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	105122736		201711509	Yes	
13681	SLICEABLE RADIO ACCESS NETWORK ARCHITECTURE FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004103		112016004103	Yes	
13682	SLICEABLE RADIO ACCESS NETWORK ARCHITECTURE FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	105125328		201720206	Yes	
13683	DEVICE AND METHOD FOR ENHANCED SEAMLESS MOBILITY	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082497		107925448	Yes	
13684	DEVICE AND METHOD FOR ENHANCED SEAMLESS MOBILITY	[redacted]	[redacted]	FPR	APP-Pending	HK	181122270		1252881	Yes	
13685	DEVICE AND METHOD FOR ENHANCED SEAMLESS MOBILITY	[redacted]	[redacted]	PCT	APP-Pending	US	15/756185		US-2018-0248736-A1	Yes	
13686	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006893		112015006893	Yes	
13687	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/756216	10360354	US-2018-0359762-A1	Yes	
13688	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	[redacted]	[redacted]	CNT	APP-Pending	US	16/407143		US-2019-0335478-A1	Yes	
13689	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	TW	105123803		201715417	Yes	
13690	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580022918		107852255	Yes	
13691	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	181118374		1252527	Yes	
13692	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	[redacted]	[redacted]	PCT	PAT-Active	US	15/750070	10326514	US-2018-0309495-A1	Yes	
13693	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/407154		US 2019-0372645 A1	Yes	
13694	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105121621		201711428	Yes	
13695	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580025528		107925523	Yes	
13696	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	181122298		1252882	Yes	
13697	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	159037084		3338912	Yes	
13698	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/759134			Yes	
13699	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580025702		107925532	Yes	
13700	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	181122305		1252883	Yes	
13701	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	159062167		3336851	Yes	
13702	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/760975		US-2018-0263021-A1	Yes	
13703	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	15/963483		US-2018-0249458-A1	Yes	
13704	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	NP	PAT-Active	US	14/976647	9607169			
13705	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	EP	163984331	3185427	3185427		
13706	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	DE	163984331	3185427	3185427		
13707	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	FR	163984331	3185427	3185427		
13708	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	GB	163984331	3185427	3185427		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13709	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPA	PAT-Active	NL	16198433	3185427	3185427		
13710	BYPASS RING TO IMPROVE NOISE ISOLATION OF COILS AND INDUCTORS	[redacted]	[redacted]	NP	PAT-Active	US	14/958385	9496231			
13711	BYPASS RING TO IMPROVE NOISE ISOLATION OF COILS AND INDUCTORS	[redacted]	[redacted]	NP	PAT-Active	CN	201610958193	ZL2016105813930	106972011		
13712	ANTENNA ARRANGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	14/757569	10431881	US-2017-0187113-A1		
13713	ANTENNA ARRANGEMENT	[redacted]	[redacted]	EPA	PAT-Active	EP	161987573	3185358	3185358		
13714	ANTENNA ARRANGEMENT	[redacted]	[redacted]	EPA	PAT-Active	DE	161987573	3185358	3185358		
13715	ANTENNA ARRANGEMENT	[redacted]	[redacted]	EPA	PAT-Active	FR	161987573	3185358	3185358		
13716	ANTENNA ARRANGEMENT	[redacted]	[redacted]	EPA	PAT-Active	GB	161987573	3185358	3185358		
13717	ANTENNA ARRANGEMENT	[redacted]	[redacted]	EPA	PAT-Active	NL	161987573	3185358	3185358		
13718	BEAM DISCOVERY REPORTING FOR SPATIAL MULTIPLEXING	[redacted]	[redacted]	NP	APP-Pending	TW	105126713		201724775	Yes	
13719	SYSTEM AND METHOD FOR DOWNLINK CONTROL INDICATOR DESIGN IN BEAM AGGREGATION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	TW	105133681		201722182	Yes	
13720	SYSTEM AND METHOD FOR UPLINK SUBBAND BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680037757		108781448	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
13722	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	[redacted]	[redacted]	PCT	APP-Pending	CN	201580079616.5		107567698	Yes	
13723	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	[redacted]	[redacted]	FPR	APP-Pending	HK	18108594.3		1248941	Yes	
13724	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	[redacted]	[redacted]	EPT	APP-Pending	EP	15892052.0		3295632	Yes	
13725	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	[redacted]	[redacted]	PCT	PAT-Active	US	15/564859	10461877	US-2018-0091249-A1	Yes	
13726	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	[redacted]	[redacted]	CNT	APP-Pending	US	16/808193		US-2019-0334646-A1	Yes	
13727	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580080031784		107637000	Yes	
13728	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	18108725.5		1249304	Yes	
13729	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	15895648.6		3311522	Yes	
13730	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7033089		10-2018-0018504	Yes	
13731	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/574681		US-2018-0139014-A1	Yes	
13732	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	[redacted]	[redacted]	CNT	APP-Pending	US	16/408223		US 2019-0372723 A1	Yes	
13733	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580051466		107925975	Yes	
13734	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18112234.1		1252887	Yes	
13735	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION	[redacted]	[redacted]	EPT	APP-Pending	EP	16852134		3357288	Yes	
13736	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/765329		US-2018-0310190-A1	Yes	
13737	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081627.7		107852418		
13738	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT	[redacted]	[redacted]	FPR	APP-Pending	HK	18110676.8		1251737		
13739	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	15901164.2		3335400		
13740	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/749704		US-2018-0234827-A1		
13741	SYSTEMS METHODS AND DEVICES FOR V2X SERVICES OVER WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004288.4		112016004288	Yes	
13742	SYSTEMS METHODS AND DEVICES FOR V2X SERVICES OVER WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	PCT	PAT-Active	US	15/761684	10484848	US-2018-0206089-A1	Yes	
13743	SYSTEMS METHODS AND DEVICES FOR V2X SERVICES OVER WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	105123885		201713128	Yes	
13744	SYSTEMS METHODS AND DEVICES FOR RESOURCE ALLOCATION ADJUSTMENTS FOR WIRELESS TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004384.4		112016004388		
13745	SYSTEMS METHODS AND DEVICES FOR RESOURCE ALLOCATION ADJUSTMENTS FOR WIRELESS TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/742406		US-2018-0376474-A1		
13746	SYSTEMS METHODS AND DEVICES FOR CELLULAR SYNCHRONIZATION REFERENCES	[redacted]	[redacted]	PCT	APP-Pending	US	15/742416		US-2018-0213498-A1		
13747	SYSTEMS METHODS AND DEVICES FOR CELLULAR SYNCHRONIZATION REFERENCES	[redacted]	[redacted]	NP	APP-Pending	TW	105125925		201720201		
13748	DUAL RADIO ARCHITECTURE AND METHODS FOR ENHANCED SUPPORT OF V2X SERVICE WITH NETWORK ASSISTANCE	[redacted]	[redacted]	PCT	APP-Pending	DE	112015006895.8		112015006895		
13749	SYSTEMS METHODS AND DEVICES FOR SHARING A WIRELESS MEDIUM USING LISTEN BEFORE TALK	[redacted]	[redacted]	EPT	APP-Pending	EP	15825733.8		3354099	Yes	
13750	SYSTEMS METHODS AND DEVICES FOR SHARING A WIRELESS MEDIUM USING LISTEN BEFORE TALK	[redacted]	[redacted]	PCT	APP-Pending	US	15/742585		US-2018-0206269-A1	Yes	
13751	SYSTEMS METHODS AND DEVICES FOR SHARING A WIRELESS MEDIUM USING LISTEN BEFORE TALK	[redacted]	[redacted]	NP	APP-Pending	TW	105125189		201713132	Yes	
13752	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EP	167167592	3353935	3353935	Yes	
13753	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	AT	167167592	3353935	3353935	Yes	
13754	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	BE	167167592	3353935	3353935	Yes	
13755	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	CH	167167592	3353935	3353935	Yes	
13756	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	DE	167167592	3353935	3353935	Yes	
13757	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	EE	167167592	3353935	3353935	Yes	
13758	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	ES	167167592	3353935	3353935	Yes	
13759	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	FR	167167592	3353935	3353935	Yes	
13760	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GB	167167592	3353935	3353935	Yes	
13761	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	GR	167167592	3353935	3353935	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13762	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	HU	167167592	3353935	3353935	Yes	
13763	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	IE	167167592	3353935	3353935	Yes	
13764	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	NL	167167592	3353935	3353935	Yes	
13765	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	PAT-Active	SK	167167592	3353935	3353935	Yes	
13766	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/749757		US-2019-0182824-A1	Yes	
13767	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCH	[redacted]	[redacted]	PCT	APP-Pending	CN	201580081663		107852292	Yes	
13768	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCH	[redacted]	[redacted]	FPR	APP-Pending	HK	181107947		1251382	Yes	
13769	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCH	[redacted]	[redacted]	PCT	APP-Pending	US	15/748589		US-2018-0212736-A1	Yes	
13770	V2X PERFORMANCE ENHANCEMENTS IN HIGH SPEED ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082650		107925535	Yes	
13771	V2X PERFORMANCE ENHANCEMENTS IN HIGH SPEED ENVIRONMENTS	[redacted]	[redacted]	FPR	APP-Pending	HK	181122350		1252888	Yes	
13772	V2X PERFORMANCE ENHANCEMENTS IN HIGH SPEED ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Pending	US	15/754280		US-2018-0241508-A1	Yes	
13773	SYSTEM INFORMATION CHANGE NOTIFICATION TECHNIQUES FOR WIRELESS COMMUNICATIONS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084269		107925952		
13774	SYSTEM INFORMATION CHANGE NOTIFICATION TECHNIQUES FOR WIRELESS COMMUNICATIONS NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	181122378		1252890		
13775	SYSTEM INFORMATION CHANGE NOTIFICATION TECHNIQUES FOR WIRELESS COMMUNICATIONS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/751843		US-2018-0270738-A1		
13776	CONGESTION CONTROL FOR VEHICULAR-TO-ANYTHING SERVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680049180X		107925906	Yes	
13777	CONGESTION CONTROL FOR VEHICULAR-TO-ANYTHING SERVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	181130074		1253873	Yes	
13778	CONGESTION CONTROL FOR VEHICULAR-TO-ANYTHING SERVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/754531		US-2018-0242190-A1	Yes	
13779	SOLUTION FOR LOCAL BREAKOUT IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201580083723X		108076815	Yes	
[redacted]											
13781	SOLUTION FOR LOCAL BREAKOUT IN CELLULAR NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	106107249		201810994	Yes	
13782	RADIO COMMUNICATION DEVICE AND METHOD OF MOBILE RADIO CELL MEASUREMENT REPORTING	[redacted]	[redacted]	PCT	APP-Pending	US	15/776801		US-2018-0332492-A1		
13783	LATTICE REDUCTION-AIDED SYMBOL DETECTION	[redacted]	[redacted]	EPT	APP-Pending	EP	159075001		3369187		
13784	LATTICE REDUCTION-AIDED SYMBOL DETECTION	[redacted]	[redacted]	PCT	APP-Pending	US	15/763860		US-2018-0287675-A1		
13785	METHOD AND DEVICE FOR SCHEDULING CELL QUALITY MEASUREMENTS IN A MOBILE RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	15/357366	10390268	US-2017-0188278-A1		
13786	METHOD AND DEVICE FOR SCHEDULING CELL QUALITY MEASUREMENTS IN A MOBILE RECEIVER	[redacted]	[redacted]	CNT	APP-Pending	US	16/507501		US 2020-0077313 A1		
13787	METHOD AND DEVICE FOR SCHEDULING CELL QUALITY MEASUREMENTS IN A MOBILE RECEIVER	[redacted]	[redacted]	NP	APP-Pending	DE	102015122776		102015122776		
13788	COMMUNICATION TERMINAL AND METHOD FOR SELECTING A COMMUNICATION ANTENNA	[redacted]	[redacted]	NP	APP-Pending	US	15/357824		US-2017-0181071-A1		
13789	COMMUNICATION TERMINAL AND METHOD FOR SELECTING A COMMUNICATION ANTENNA	[redacted]	[redacted]	NP	APP-Pending	DE	102015122543		102015122543		
13790	FAST FOURIER TRANSFORM ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Pending	US	15/777245		US-2018-0336161-A1		
[redacted]											
13792	METHOD AND APPARATUS FOR REDUCING POWER OF A CDMA MOBILE STATION BY CONTROLLED TRANSITION FROM CONTROL HOLD TO ACTIVE STATE	[redacted]	[redacted]	NP	PAT-Active	US	10/451646	7203527	US-2003-0227882-A1		
13793	METHOD AND APPARATUS FOR REDUCING POWER OF A CDMA MOBILE STATION BY CONTROLLED TRANSITION FROM CONTROL HOLD TO ACTIVE STATE	[redacted]	[redacted]	PCT	PAT-Active	CN	38160293	ZL0381602 93	1666431		
13794	METHOD AND APPARATUS FOR REDUCING POWER OF A CDMA MOBILE STATION BY CONTROLLED TRANSITION FROM CONTROL HOLD TO ACTIVE STATE	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2004-7017921	10-0695603	10-2005-0006236		
13795	FAST TRAFFIC CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Active	CN	38104121	ZL0381604 33	1653832		
13796	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	EP	37288271	1502460	1502460		
13797	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	DE	37288271	1502460	1502460		
13798	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	FR	37288271	1502460	1502460		
13799	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	EPT	PAT-Active	GB	37288271	1502460	1502460		
13800	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	NP	PAT-Active	US	10/455783	7353039	US-2004-0043784-A1		
13801	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	PCT	PAT-Active	CN	38111327	ZL0381113 22	1653835		
13802	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	DE	37390622	########	1510084		
13803	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	EPT	PAT-Active	EP	37390622	1510084	1510084		
13804	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201880050520X		108029074	Yes	
13805	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPR	APP-Pending	HK	181134622		1254383	Yes	
13806	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	15/756516		US-2018-0262975-A1	Yes	
13807	MAPPING OF PHYSICAL BROADCAST CHANNEL (PBCH) REPETITION SYMBOLS FOR MACHINE-TYPE COMMUNICATION (MTC)	[redacted]	[redacted]	EPT	APP-Pending	EP	167167741		3353924	Yes	
13808	MAPPING OF PHYSICAL BROADCAST CHANNEL (PBCH) REPETITION SYMBOLS FOR MACHINE-TYPE COMMUNICATION (MTC)	[redacted]	[redacted]	NP	APP-Pending	TW	105125178		201720085	Yes	
13809	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	[redacted]	[redacted]	EPT	APP-Pending	EP	159056456		3357193		
13810	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	[redacted]	[redacted]	PCT	APP-Pending	US	15/764469		US-2018-0262410-A1		
13811	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	[redacted]	[redacted]	CNT	APP-Pending	US	16/408234		US-2019-0338796-A1		
13812	ENHANCED PAGING MECHANISM FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004518		112016004518	Yes	
13813	ENHANCED PAGING MECHANISM FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	PCT	PAT-Active	US	15/758246	10237847	US-2018-0263013-A1	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13818	DETERMINING THE RECEIVED DATA RATE IN A VARIABLE RATE COMMUNICATIONS SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/430958	6370672			
13815	METHOD AND APPARATUS FOR CONTROLLING FORWARD LINK POWER DURING AN INTERGENERATIONAL SOFT HANDOFF IN A CDMA COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	09/783725	6937583			
13816	FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM SEARCHING	[redacted]	[redacted]	NP	PAT-Active	US	09/588840	6775261			
13817	FORWARD PACKET DATA CHANNEL WITH PARALLEL SUB-PACKETS	[redacted]	[redacted]	NP	PAT-Active	US	10/099819	7379416	US-2003-0174642-A1		
13818	FAST FEEDBACK CHANNEL WITH FLEXIBLE BIT RELIABILITY FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	09/834417	6878641	US-2001-0048694-A1		
13819	ADAPTIVE ANTENNA METHOD AND APPARATUS	[redacted]	[redacted]	NP	PAT-Active	US	09/632081	6952455			
13820	METHOD AND APPARATUS FOR GENERATING TRANSMIT ADAPTIVE ANTENNA WEIGHTS WITH MIMO USING BINARY GRADIENT FEEDBACK	[redacted]	[redacted]	CIP	PAT-Active	US	10/080753	7433418			
13821	SYNCHRONIZATION OF MOBILE STATION LOCATION MEASUREMENT WITH CDMA SERVICE	[redacted]	[redacted]	NP	PAT-Active	US	10/264021	7035648	US-2003-0100314-a1		
13822	FRAME MATCHING METHOD	[redacted]	[redacted]	NP	PAT-Active	US	09/687700	6891853			
13823	METHOD AND APPARATUS FOR PROCESSING INTERRUPTS AT DYNAMICALLY SELECTABLE PRIORITIZATION LEVELS	[redacted]	[redacted]	NP	PAT-Active	US	10/356130	6826502	US-2004-0153596-A1		
13824	METHOD AND APPARATUS ESTIMATING CELL INTERFERENCE AND NOISE FOR CDMA PACKET DATA CHANNELS	[redacted]	[redacted]	NP	PAT-Active	US	10/618079	7450556	US-2005-0007975-A1		
13825	METHOD AND APPARATUS ESTIMATING CELL INTERFERENCE AND NOISE FOR CDMA PACKET DATA CHANNELS	[redacted]	[redacted]	NP	PAT-Active	CN	200410032535X	ZL2004100325353	1538630		
13826	PILOT SIGNAL ENHANCEMENTS FOR A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	10/903029	7450549	US-2005-0030926-A1		
13827	PILOT SIGNAL ENHANCEMENTS FOR A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	US	12/151017	8208447	US-2008-0205374-A1		
13828	FLOW CONTROL FOR TRANSMISSION INTERFACE	[redacted]	[redacted]	NP	PAT-Active	CN	200410054500X	ZL2004100 54500X	1571826		
13829	TRISTATE REQUESTS FOR FLEXIBLE PACKET RETRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	10/647825	7590084	US-2005-0068906-A1		
13830	TRISTATE REQUESTS FOR FLEXIBLE PACKET RETRANSMISSION	[redacted]	[redacted]	DIV	PAT-Active	US	12/537086	8254363	US-2009-0319854-A1		
13831	LEGACY-COMPATIBLE SIGNALING EXTENSION METHOD FOR BROADCAST/MULTICAST SERVICE INDICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	10/955241	7486643	US-2005-0259622-A1		
13832	EXPANSION METHOD FOR BROADCASTING / MULTIBROADCASTING SERVICE INDEX SIGNALS COMPATIBLE TO TRADITIONAL MODE	[redacted]	[redacted]	NP	PAT-Active	CN	200410036395X	ZL2004100 363956	1610845		
13833	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	NP	PAT-Active	US	10/965060	7317917	US-2005-0136937-A1		
13834	METHOD AND/OR ARCHITECTURE IMPLEMENTED IN HARDWARE FOR THE ADJUSTMENT OF MESSAGES WITH INDETERMINISTIC LENGTH	[redacted]	[redacted]	NP	PAT-Active	US	10/812810	7376152	US-2005-0220151-A1		
13835	METHOD AND APPARATUS FOR REGULATING NON-DETERMINISTIC LENGTH INFORMATION	[redacted]	[redacted]	NP	PAT-Active	CN	200410092548X	ZL2004100 929480	1609782		
13836	METHOD AND EQUIPMENT FOR PROCESSING MULTIPLEXING SUBLAYER DATA UNIT DATA ON HARDWARE	[redacted]	[redacted]	NP	PAT-Active	CN	200410100292X	ZL2004101 00292X	1630292		
13837	METHOD AND/OR APPARATUS IMPLEMENTED IN HARDWARE TO DISCARD BAD LOGICAL TRANSMISSION UNITS (LTUS)	[redacted]	[redacted]	NP	PAT-Active	US	10/842376	7340667	US-2005-0251717-A1		
13838	METHOD AND DEVICE FOR DISCARDING ERROR LOGICAL TRANSFER UNIT	[redacted]	[redacted]	NP	PAT-Active	CN	200410100003915	ZL2004101 002015	1625093		
13839	READ ENABLE GENERATOR READ ENABLE SIGNAL GENERATING METHOD AND DATA TRANSMISSION METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	200510081020?	ZL2005100 816207	1716836		
13840	POWER SAVING METHOD AND APPARATUS FOR CELL POWER SUPPLY WIRELESS SYSTEM WITH SOFTWARE STRUCTURE	[redacted]	[redacted]	NP	PAT-Active	CN	200510005788?	ZL2005100 057885	1652676		
13841	METHOD AND/OR APPARATUS FOR GENERATING A WRITE GATED CLOCK SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	10/867899	7046066	US-2005-0275441-A1		
13842	METHOD AND APPARATUS FOR PRODUCING WRITE-IN GATING CLOCK SIGNAL	[redacted]	[redacted]	NP	PAT-Active	CN	200510054326?	ZL2005100 543297	1667746		
13843	CANONICAL SIGNED DIGIT (CSD) COEFFICIENT MULTIPLIER WITH OPTIMIZATION	[redacted]	[redacted]	NP	PAT-Active	CN	200610005300?	ZL2006100 050030	1801075		
13844	SYSTEM FOR MINIMIZING TIME-PULSE ERROR IN COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Active	CN	201410085757?	ZL2014100 857575	103795374		
13845	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	NP	PAT-Active	US	11/202959	7567536	US-2006-0034241-A1		
13846	TRI-STATE PULSE DENSITY MODULATOR	[redacted]	[redacted]	NP	PAT-Active	CN	200610074364X	ZL2006100 74364X	1829085		
13847	GAIN CONTROL IN SIGNAL PROCESSING WITH FEED-FORWARD GAIN CORRECTION	[redacted]	[redacted]	NP	PAT-Active	CN	200610090441?	ZL2006100 044332	1812257		
13848	CODE-SWITCHING METHOD AND CODE-SWITCHING DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	200610009489?	ZL2006100 094894	1819621		
13849	ENHANCED SELF-CONTAINED TIME-DIVISION DUPLEX SUBFRAME STRUCTURE	[redacted]	[redacted]	EPT	APP-Pending	EP	16718765?		3360277	Yes	
13850	ENHANCED SELF-CONTAINED TIME-DIVISION DUPLEX SUBFRAME STRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	US	15/762534		US 2020-0260527 A1	Yes	
13851	ENHANCED SELF-CONTAINED TIME-DIVISION DUPLEX SUBFRAME STRUCTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105124942		201714424	Yes	
13852	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	[redacted]	[redacted]	PCT	APP-Pending	CN	201680051611?		107950056	Yes	
13853	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	[redacted]	[redacted]	EPR	APP-Pending	HK	18312238?		3752892	Yes	
13854	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004567?		112016004567	Yes	
13855	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	[redacted]	[redacted]	PCT	APP-Pending	US	15/786052		US-2018-0288657-A1	Yes	
13856	BEARER-LESS ARCHITECTURE FOR A WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Pending	DE	112016005700		112016004578	Yes	
13857	BEARER-LESS ARCHITECTURE FOR A WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Pending	US	15/765998		US-2018-0288784-A1	Yes	
13858	BEARER-LESS ARCHITECTURE FOR A WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	105124808		201714438	Yes	
13859	RRM REQUIREMENT FOR D2D INTER-CARRIER DISCOVERY GAP	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004542?		112016004542		
13860	RRM REQUIREMENT FOR D2D INTER-CARRIER DISCOVERY GAP	[redacted]	[redacted]	PCT	PAT-Active	US	15/756843	10448237	US-2018-0279109-A1		
13861	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680052134?		108028738	Yes	
13862	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	EPR	APP-Pending	HK	18113457?		1254381	Yes	
13863	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/761390		US-2018-0279388-A1	Yes	
13864	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	NP	APP-Pending	TW	105128273		201724897	Yes	
13865	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680052149?		108029066	Yes	
13866	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	EPR	APP-Pending	HK	18113724?		1254713	Yes	
13867	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004559?		112016004559	Yes	
13868	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	PCT	APP-Pending	US	15/765542		US-2018-0310350-A1	Yes	
13869	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	NP	APP-Pending	TW	105126118		201714434	Yes	
13870	NETWORK UTILITY MAXIMIZATION WITH MULTI-RAT AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004608?		112016004608	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13871	NETWORK UTILITY MAXIMIZATION WITH MULTI-RAT AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/765664		US-2018-0352477-A1	Yes	
13872	WALSH MASK TEST IN CDMA CELLULAR WIRELESS COMMUNICATION SYSTEMS WITH PACKET DATA SERVICE	[redacted]	[redacted]	NP	PAT-Active	US	11/182771	7801232	US-2006-0274639-A1		
13873	WALSH MASK TEST WITH GROUPING DATA SERVICE IN CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	200610008427726	ZL2006100 842772	1852526		
13874	MEMORY EFFICIENT STREAMLINED TRANSMITTER WITH A MULTIPLE INSTANCE HYBRID ARQ	[redacted]	[redacted]	NP	PAT-Active	US	11/078751	7840869	US-2006-0205777-A1		
13875	MEMORY EFFICIENT STREAMLINED TRANSMITTER WITH A MULTIPLE INSTANCE HYBRID ARQ	[redacted]	[redacted]	NP	PAT-Active	CN	200610067982X	ZL2006100 678621	1855802		
13876	MOBILE PHONE HAVING A DIRECTED BEAM ANTENNA	[redacted]	[redacted]	NP	PAT-Active	CN	200610007143X	ZL2006100 671433	1878010		
13877	MOBILE PHONE WITH DIRECTIONAL BEAM ANTENNA	[redacted]	[redacted]	DIV	PAT-Active	CN	201010510833X	ZL2010105 103237	101851269		
13878	MOBILE PHONE HAVING A DIRECTED BEAM ANTENNA	[redacted]	[redacted]	DIV	PAT-Active	US	11/703426	7576699	US-2007-0159404-A1		
13879	MOBILE PHONE HAVING AN EASY-RECEIVE FEATURE FOR AN INCOMING CALL	[redacted]	[redacted]	NP	PAT-Active	CN	200510131624X	ZL2005101 316248	1805456		
13880	SYSTEM AND METHOD FOR DIGITAL MULTIMEDIA BROADCASTING	[redacted]	[redacted]	NP	PAT-Active	US	11/280989	7529221	US-2006-0114857-A1		
13881	SYSTEM AND METHOD FOR DIGITAL MULTIMEDIA BROADCASTING	[redacted]	[redacted]	NP	PAT-Active	CN	200510124189X	ZL2005101 241899	1790959		
13882	HAND-HELD SCREEN-INTERFACE DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	200610007151X	ZL2006100 715122	1825263		
13883	METHOD AND SYSTEM FOR A LOCK DETECTOR FOR A PHASE-LOCKED LOOP	[redacted]	[redacted]	NP	PAT-Active	US	11/101985	7157978	US-2006-0226914-A1		
13884	METHOD AND SYSTEM FOR A LOCK DETECTOR FOR A PHASE-LOCKED LOOP	[redacted]	[redacted]	NP	PAT-Active	CN	200610075343X	ZL2006100 753438	1829096		
13885	METHOD AND SYSTEM FOR ALLOCATING TRANSMIT POWER AMONG A PLURALITY OF CHANNELS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	IN	1599/DEL/2006		1599/DEL/2006		
13886	REVERSE-LINK STRUCTURE FOR A MULTI-CARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	PAT-Active	CN	200680012978X	ZL2006800 129783	101427488		
13887	TRANSMISSION SYSTEM AND METHOD FOR RADIO LINK PROTOCOL	[redacted]	[redacted]	NP	PAT-Active	CN	200610092685X	ZL2006100 926852	1917872		
13888	POWER-EFFICIENT SIGNALING FOR ASYMMETRIC MULTI-CARRIER COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	CN	200610142759X	ZL2006101 427593	1983615		
13889	POWER-EFFICIENT SIGNALING FOR ASYMMETRIC MULTI-CARRIER COMMUNICATIONS	[redacted]	[redacted]	CIP	PAT-Active	US	11/888909	7564828	US-2007-0060060-A1		
13890	INTER-LAYER COMMUNICATION OF RECEIPT CONFIRMATION FOR RELEASING RETRANSMISSION BUFFER CONTENTS	[redacted]	[redacted]	NP	PAT-Active	US	11/266913	7567515	US-2007-0115823-A1		
13891	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082806X		107925535	Yes	
13892	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	[redacted]	[redacted]	FPR	APP-Pending	HK	18113066S		1253872	Yes	
13893	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	[redacted]	[redacted]	PCT	APP-Pending	US	15/766561		US-2018-0294859-A1	Yes	
13894	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	[redacted]	[redacted]	NP	APP-Pending	TW	105138272		201724889	Yes	
13895	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	15/356787	9867133	US-2017-0181096-A1		
13896	JOINT NONCOHERENT DEMODULATION AND CARRIER FREQUENCY OFFSET CORRECTION BASED ON NON-LINEAR FILTERING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680057815X		108353066		
13897	JOINT NONCOHERENT DEMODULATION AND CARRIER FREQUENCY OFFSET CORRECTION BASED ON NON-LINEAR FILTERING	[redacted]	[redacted]	PCT	PAT-Active	US	15/777075	10476731	US-2019-0028322-A1		
13898	DEVICE AND METHOD FOR USER ORIGINATED MULTIPLE CONNECTION MANAGEMENT TRANSACTIONS VIA CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	NP	PAT-Active	US	14/975884	9788243	US-2017-0181042-A1		
13899	METHOD AND MIGRATION MANAGER COMPONENT FOR TRANSFERRING AN APPLICATION AND SYSTEM FOR MANAGING TERMINAL DEVICE COMMUNICATION CONNECTIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/777246		US-2018-0332554-A1		
13900	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SELECTION OR RESELECTION	[redacted]	[redacted]	PCT	APP-Pending	US	15/776807		US-2018-0332521-A1		
13901	INTERFERENCE MITIGATION IN CELLULAR NETWORKS	[redacted]	[redacted]	NP	APP-Pending	DE	102016105873		102016105873		
13902	A Successive Joint Channel Estimation based Interference Cancellation Scheme against Colliding Interferences	[redacted]	[redacted]	PCT	APP-Pending	US	15/779161		US-2018-0375689-A1		
13903	VARIABLE BANDWIDTH AUTOMATIC GAIN CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	11/369313	7936193	US-2007-0147556-A1		
13904	VARIABLE BANDWIDTH AUTOMATIC GAIN CONTROL	[redacted]	[redacted]	CNT	PAT-Active	US	12/398746	8160186	US-2010-0172451-A1		
13905	VARIABLE BANDWIDTH AUTOMATIC GAIN CONTROL	[redacted]	[redacted]	NP	PAT-Active	CN	200610143571X	ZL2006101 435716	1010031095		
13906	SYSTEM AND METHOD FOR FEEDING BACK INFORMATION TO A USER-TERMINAL FROM MULTIPLE HUBS	[redacted]	[redacted]	NP	PAT-Active	CN	200610143567X	ZL2006101 435567X	1992946		
13907	METHOD FOR EFFICIENT FEEDBACK OF RECEPTION-QUALITY INFORMATION FROM MULTIPLE HUBS TO A SINGLE USER-TERMINAL	[redacted]	[redacted]	EPA	PAT-Active	DE	60234440	88888888	1786230		
13908	METHOD FOR EFFICIENT FEEDBACK OF RECEPTION-QUALITY INFORMATION FROM MULTIPLE HUBS TO A SINGLE USER-TERMINAL	[redacted]	[redacted]	EPA	PAT-Active	EP	60234440	1786230	1786230		
13909	SYSTEM AND METHOD FOR FEEDING BACK INFORMATION TO A USER TERMINAL FROM MULTIPLE HUBS	[redacted]	[redacted]	NP	PAT-Active	IN	2441/DEL/2006	318187	2441/DEL/2006		
13910	ITERATIVE CHANNEL PREDICTION	[redacted]	[redacted]	NP	PAT-Active	CN	200610154326X	ZL2006101 543265	1960556		
13911	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201880054268X		108029025	Yes	
13912	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	18113453S		1254377	Yes	
13913	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	PCT	APP-Pending	DE	112018004715X		112018004715	Yes	
13914	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/761016		US-2018-0279316-A1	Yes	
13915	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	NP	APP-Pending	TW	105126205		201715912	Yes	
13916	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580053585X		108028826	Yes	
13917	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	[redacted]	[redacted]	FPR	APP-Pending	HK	18113451S		1254375	Yes	
13918	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/747009		US-2018-0219709-A1	Yes	
13919	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105129160		201724819	Yes	
13920	CHANNEL STATE INFORMATION FEEDBACK CHANNEL	[redacted]	[redacted]	NP	APP-Pending	TW	105128501		201724786	Yes	
13921	FLEXILE UNIVERSAL EXTENDED FRAME STRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680054546Z		108028726	Yes	
13922	FLEXILE UNIVERSAL EXTENDED FRAME STRUCTURE	[redacted]	[redacted]	FPR	APP-Pending	HK	18113728Z		1254717	Yes	
13923	FLEXIBLE UNIVERSAL EXTENDED FRAME STRUCTURE	[redacted]	[redacted]	PCT	APP-Pending	US	15/765248		US-2018-0254851-A1	Yes	

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
13924	FLEXIBLE UNIVERSAL EXTENDED FRAME STRUCTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105127850		201728208	Yes	
13925	ENHANCED RESOURCE MAPPING SCHEME	[redacted]	[redacted]	PCT	APP-Pending	US	15/764294		US-2018-0368352-A1	Yes	
13926	ENHANCED RESOURCE MAPPING SCHEME	[redacted]	[redacted]	NP	APP-Pending	TW	105139618		201734792	Yes	
13927	FREQUENCY RECONFIGURABLE ANTENNA DECOUPLING FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	US	15/193958		US-2017-0373393-A1		
13928	FREQUENCY RECONFIGURABLE ANTENNA DECOUPLING FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	CN	201710366307.7		107546482		
13929	FREQUENCY RECONFIGURABLE ANTENNA DECOUPLING FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	EPA	APP-Pending	EP	17173159.5		3264525		
13930	FREQUENCY RECONFIGURABLE ANTENNA DECOUPLING FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	IN	201748016548		201748016548		
13931	NAK MESSAGE TRANSMISSION WITH QUICKNAK INDICATION	[redacted]	[redacted]	NP	PAT-Active	US	11/622086	8051190	US-2008-0170565-A1		
13932	METHOD FOR PROCESSING RECEIVED PACKAGE AND RECEIVER	[redacted]	[redacted]	NP	PAT-Active	CN	200710123137.8	ZL2007101231379	101102172		
13933	EFFICIENT COMPUTATION OF THE MODULO OPERATION BASED ON DIVISOR (2N-1)	[redacted]	[redacted]	PCT	APP-Closed	IN	2492/MUMNP/2008		2492/MUMNP/2008		
13934	ACCESS TERMINAL PAGING IMPROVEMENTS	[redacted]	[redacted]	NP	PAT-Active	US	12/152835	8081591	US-2008-0293440-A1		
13935	ACCESS TERMINAL PAGING IMPROVEMENTS	[redacted]	[redacted]	NP	PAT-Active	CN	200810097150.9	ZL2008100971503	101282583		
13936	SYSTEM AND METHOD FOR IMPLEMENTING PREAMBLE CHANNEL IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	200710145382.7	ZL2007101453827	101127583		
13937	SYSTEMS AND METHODS FOR DETERMINING SLOTTED MODE OPERATION TIMING IN A HYBRID ACCESS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	11/862029	7894393	US-2008-0075089-A1		
13938	SYSTEMS AND METHODS FOR DETERMINING SLOTTED MODE OPERATION TIMING IN A HYBRID ACCESS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	200710161797.9	ZL2007101617979	101203043		
13939	ACCESS TERMINAL WHICH HANDLES MULTIPLE USER CONNECTIONS	[redacted]	[redacted]	NP	PAT-Active	US	11/748043	8059582	US-2008-0285508-A1		
13940	METHOD FOR PROCESSING MULTI-USER CONNECTIONS IN HIGH SPEED GROUPED DATA TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	200710148806.5	ZL2007101488065	101207924		
13941	ACCESS TERMINAL WHICH HANDLES MULTIPLE USER CONNECTIONS	[redacted]	[redacted]	NP	APP-Closed	IN	1026/MUM/2008		1026/MUM/2008		
13942	DEVICE OF IMPROVING EXTERNAL PLAYBACK EFFECT ITS EXTERNAL MEANS AND PLAYBACK TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	200710138376.9	ZL2007101383769	101094538		
13943	COMMUNICATION NETWORK MOBILE STATION AND PROCESSING METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	200710148043.4	ZL2007101480434	101115535		
13944	FEMTOCELL BASE STATION WITH MOBILE STATION CAPABILITY	[redacted]	[redacted]	NP	PAT-Active	US	11/861772	8103267	US-2009-0082010-A1		
13945	MILLIMICRO MICRO-HONEYCOMB BASE STATION WITH MOBILE PLATFORM CAPABILITY	[redacted]	[redacted]	NP	PAT-Active	CN	200810093110.8	ZL2008100931103	101262656		
13946	DEVICES AND METHODS FOR ROBUST MEASUREMENT AND DATA RECEIVING	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004912.9		112016004912	Yes	
13947	DEVICES AND METHODS FOR ROBUST MEASUREMENT AND DATA RECEIVING	[redacted]	[redacted]	PCT	APP-Pending	US	15/770948		US-2018-0309526-A1	Yes	
13948	DEVICES AND METHODS FOR ROBUST MEASUREMENT AND DATA RECEIVING	[redacted]	[redacted]	NP	APP-Pending	TW	105127848		201720074	Yes	
13949	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	EPA	PAT-Active	EP	1615709.7	3182764	3182764		
13950	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	EPA	PAT-Active	DE	1615709.7	3182764	3182764		
13951	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	EPA	PAT-Active	FR	1615709.7	3182764	3182764		
13952	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	EPA	PAT-Active	GB	1615709.7	3182764	3182764		
13953	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	EPA	APP-Pending	NL	1615709.7	3182764	3182764		
13954	CONTENTION WINDOW SIZE ADAPTATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680055254.0		108141311	Yes	
13955	CONTENTION WINDOW SIZE ADAPTATION	[redacted]	[redacted]	EPR	APP-Pending	HK	18114209.1		3259677	Yes	
13956	CONTENTION WINDOW SIZE ADAPTATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/760010		US-2018-0254858-A1	Yes	
13957	METHOD APPARATUS AND SYSTEM FOR REPORTING BEAM REFERENCE SIGNAL RECEIVING POWER	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004808.4		112016004808	Yes	
13958	METHOD APPARATUS AND SYSTEM FOR REPORTING BEAM REFERENCE SIGNAL RECEIVING POWER	[redacted]	[redacted]	PCT	APP-Pending	US	15/752553		US-2019-0028167-A1	Yes	
13959	FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	NP	PAT-Active	US	09/633131	6618433			
13960	AGGREGATED WIRELESS DRIVER AND METHOD	[redacted]	[redacted]	NP	APP-Pending	CN	201911100562.9		105686753		
13961	CHANNEL ESTIMATION METHODS AND APPARATUS UTILIZING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	12/490169	8391417	US-2009-0296836-A1		
13962	CHANNEL ESTIMATING DEVICE AND METHOD IN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	200810108784.8	ZL2008101087844	101286750		
13963	PARALLEL DECODING OF TURBINE CODE AND DATA PROCESSING METHOD AND DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	200810190658.8	ZL2008101906588	101442321		
13964	APPARATUS AND METHOD FOR HANDLING RLC RETRANSMISSION FAILURE ACCORDING TO ACTIVATION STATUS OF SECURITY MODE	[redacted]	[redacted]	NP	PAT-Active	US	12/269204	8737294	US-2010-0035599-A1		
13965	APPARATUS AND METHOD FOR CONNECTION RE-ESTABLISHMENT IN MOBILE COMMUNICATION SYSTEM ENVIRONMENT	[redacted]	[redacted]	DIV	PAT-Active	CN	201410228311.3	ZL2014102283113	104039026		
13966	APPARATUS AND METHOD FOR CONNECTION RE-ESTABLISHMENT IN MOBILE COMMUNICATION SYSTEM ENVIRONMENT	[redacted]	[redacted]	NP	PAT-Active	IN	345/MUM/2009	288997	345/MUM/2009		
13967	APPARATUS AND METHOD FOR CONNECTION RE-ESTABLISHMENT IN MOBILE COMMUNICATION SYSTEM ENVIRONMENT	[redacted]	[redacted]	NP	PAT-Active	TW	97146894	I517651	201008192		
13968	APPARATUS AND METHOD FOR ALLEVIATING BARRED ACCESS IN MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/409748	8121083	US-2010-0074170-A1		
13969	USER EQUIPMENT AND METHOD FOR ALLEVIATING BARRED ACCESS	[redacted]	[redacted]	DIV	APP-Pending	CN	201410057686.0		104284398		
13970	ELECTRONIC DEVICE AND METHOD FOR PROCESSING IMAGE DATA	[redacted]	[redacted]	NP	PAT-Active	CN	200910126810.9	ZL2009101268109	101510812		
13971	WIRELESS HIGH-DATE RATE COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	12/626787	8295251	US-2010-0135258-A1		
13972	DEVICE METHOD AND SYSTEM FOR MULTICARRIER WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	200910225886.1	ZL2009102258661	101789820		
13973	SYNCHRONIZATION METHOD AND APPARATUS FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	12/468073	8320481	US-2010-0246698-A1		
13974	APPARATUS AND METHOD FOR REVERSE LINK TRANSMISSION IN AN ACCESS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	US	12/420654	8265490	US-2010-0262881-A1		
13975	DEVICE AND METHOD FOR PROVIDING BACKWARD LINKING TRANSMISSION TIME SEQUENCE FOR ACCESS TERMINAL	[redacted]	[redacted]	NP	PAT-Active	CN	200910146184.1	ZL2009101461841	101605026		
13976	WIRELESS COMMUNICATION BETWEEN A BASE STATION AND A MOBILE DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	12/434003	8213933	US-2010-0279683-A1		
13977	APPARATUS METHOD AND SYSTEM FOR REDUCED ACTIVE SET MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	US	12/704794	8472931	US-2010-0210246-A1		
13978	APPARATUS METHOD AND SYSTEM FOR REDUCED ACTIVE SET MANAGEMENT	[redacted]	[redacted]	NP	PAT-Active	CN	201010115766.6	ZL2010101157666	101815332		
13979	APPARATUS FOR REDUCING AN AMPLITUDE IMBALANCE AND A PHASE IMBALANCE BETWEEN AN IN-PHASE SIGNAL AND A QUADRATURE SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	15/349008	10142060	US-2017-0170915-A1		
13980	MIMO OFDMA WITH ANTENNA SELECTION AND SUBBAND HANDOFF	[redacted]	[redacted]	NP	PAT-Active	US	12/730426	8248943	US-2010-0246489-A1		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
33981	DEVICE AND METHOD FOR MULTIPLE INPUT MULTIPLE OUTPUT AND ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (MIMO-OFDM)	[redacted]	[redacted]	NP	PAT-Active	CN	201010145067	ZL2010101450676	101858069		
33982	CIRCUIT SERVICE TUNNELING SYSTEMS METHODS AND INTERWORKING SYSTEMS AND MOBILITY MANAGEMENT ENTITIES THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	12/779521	8472434	US-2010-0290436-A1		
33983	A CIRCUIT SERVICE PASSAGE METHOD AND APPARATUS THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	200910202001822	ZL2009102020182	101674609		
33984	CIRCUIT SERVICE TUNNELING METHODS AND USER EQUIPMENT THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	12/775935	8437901	US-2010-0290437-A1		
33985	DISCOVERY REFERENCE SIGNAL TRANSMISSION FOR LTE IN UNLICENSED BAND	[redacted]	[redacted]	EPT	APP-Pending	EP	15841036		3335353	Yes	
33986	DISCOVERY REFERENCE SIGNAL TRANSMISSION FOR LTE IN UNLICENSED BAND	[redacted]	[redacted]	PCT	APP-Pending	US	15/745424		US-2018-0213561-A1	Yes	
33987	USER PLANE RESOURCE ALLOCATION	[redacted]	[redacted]	EPT	APP-Pending	EP	16715414S		3371942	Yes	
33988	USER PLANE RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/766331		US-2018-0295659-A1	Yes	
33989	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	[redacted]	[redacted]	PCT	APP-Pending	CN	201680062084		108353450		
33990	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	[redacted]	[redacted]	FPR	APP-Pending	HK	18315640Z		3756565		
33991	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	[redacted]	[redacted]	PCT	APP-Pending	US	15/767562		US-2018-0302857-A1		
33992	METHOD APPARATUS AND SYSTEM FOR SPONSORED DATA CONNECTIVITY RELATED INFORMATION CONTROL AND TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	105132828		201728136	Yes	
33993	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Pending	CN	201680057123		108141337	Yes	
33994	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	FPR	APP-Pending	HK	18314208S		1255088	Yes	
33995	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	APP-Pending	EP	16716747S		3369202	Yes	
33996	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Pending	US	15/765764		US-2018-0295649-A1	Yes	
33997	MOBILITY MANAGEMENT FOR SOFTWARE DEFINED RADIO ACCESS NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	105132749		201728126	Yes	
33998	APPARATUSES SYSTEMS AND METHODS FOR PRIORITIZED LOAD BALANCING	[redacted]	[redacted]	NP	PAT-Active	US	12/792917	8428612	US-2011-0009126-A1		
33999	MOBILE COMMUNICATION DEVICES METHODS AND SYSTEMS OF PRIORITY LOAD BALANCE	[redacted]	[redacted]	NP	PAT-Active	CN	201010224124X	ZL2010102241 24124X	101873637		
34000	APPARATUSES SYSTEMS AND METHODS FOR PRIORITIZED LOAD BALANCING	[redacted]	[redacted]	NP	PAT-Active	IN	1917/MUM/2010	289958	1917/MUM/2010		
34001	TIMING ALARM DEVICE AND METHOD FOR ARRANGING TIMER THEREIN	[redacted]	[redacted]	NP	PAT-Active	CN	200910174636	ZL2009101 746367	101673084		
34002	REVERSE LINK MOBILE TRANSMIT DIVERSITY	[redacted]	[redacted]	NP	PAT-Active	US	12/880473	8472892	US-2011-0028181-A1		
34003	REVERSE LINK MOBILE TRANSMIT DIVERSITY	[redacted]	[redacted]	CNT	PAT-Active	US	13/905903	8699569	US-2013-0259147-A1		
34004	REVERSE LINK MOBILE TRANSMIT DIVERSITY	[redacted]	[redacted] D	DIV	PAT-Active	CN	201510847713	ZL2015103 771366	105162502		
34005	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680055188		108029156	Yes	
34006	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	[redacted]	[redacted]	FPR	APP-Pending	HK	18313444S		1254368	Yes	
34007	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	15/771182		US-2018-0317070-A1	Yes	
34008	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	105127670		201715913	Yes	
34009	QUALITY OF SERVICE PROVISIONING FRAMEWORK FOR A SDN-BASED CELLULAR NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004943		112016004943	Yes	
34010	QUALITY OF SERVICE PROVISIONING FRAMEWORK FOR A SDN-BASED CELLULAR NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Pending	US	15/768345		US-2018-0317121-A1	Yes	
34011	QUALITY OF SERVICE PROVISIONING FRAMEWORK FOR A SDN-BASED CELLULAR NETWORK ARCHITECTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105130474		201724885	Yes	
34012	DISCOVERY REFERENCE SIGNALING FOR DYNAMICALLY-TIMED TRANSMISSIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	16860411S		3369193	Yes	
34013	DISCOVERY REFERENCE SIGNALING FOR DYNAMICALLY-TIMED TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/770853		US-2018-0331774-A1	Yes	
34014	SLICE-BASED OPERATION IN WIRELESS NETWORKS WITH END-TO-END NETWORK SLICING	[redacted]	[redacted]	PCT	APP-Pending	CN	201980058190X		108141412	Yes	
34015	SLICE-BASED OPERATION IN WIRELESS NETWORKS WITH END-TO-END NETWORK SLICING	[redacted]	[redacted]	FPR	APP-Pending	HK	18314211S		1255082	Yes	
34016	SLICE-BASED OPERATION IN WIRELESS NETWORKS WITH END-TO-END NETWORK SLICING	[redacted]	[redacted]	NP	APP-Pending	TW	105127707		201715910	Yes	
34017	REFERENCE SIGNAL FOR RECEIVE BEAM REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	15/752764		US-2019-0007116-A1	Yes	
34018	REFERENCE SIGNAL FOR RECEIVE BEAM REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105130210		201724776	Yes	
34019	DISTINGUISHING SUBFRAMES IN A DOWNLINK TRANSMISSION BURST	[redacted]	[redacted]	PCT	APP-Pending	CN	201680060138		108181829	Yes	
34020	DISTINGUISHING SUBFRAMES IN A DOWNLINK TRANSMISSION BURST	[redacted]	[redacted]	FPR	APP-Pending	HK	18314215Z		1255085	Yes	
34021	DISTINGUISHING SUBFRAMES IN A DOWNLINK TRANSMISSION BURST	[redacted]	[redacted]	PCT	APP-Pending	US	15/764301		US-2018-0288715-A1	Yes	
34022	SECURE CONNECTION OF CELLULAR DEVICES WITHOUT USING A CORE CELLULAR NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	105131652		201717688		
34023	SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	EPT	APP-Pending	EP	16715782S		3371919	Yes	
34024	SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	PCT	APP-Pending	US	15/767993		US-2018-0302903-A1	Yes	
34025	ANTENNA PORT MULTIPLEXING	[redacted]	[redacted]	EPT	APP-Pending	EP	16742465		3371921	Yes	
34026	ANTENNA PORT MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	US	15/765652		US-2018-0278437-A1	Yes	
34027	RESTORING VIRTUAL NETWORK FUNCTION (VNF) PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	16736288S		3371708	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
34030	RESTORING VIRTUAL NETWORK FUNCTION (VNF) PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	15/767203		US-2018-0373269-A1	Yes	
34031	RESTORING VIRTUAL NETWORK FUNCTION (VNF) PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	[redacted]	[redacted]	NP	APP-Pending	TW	105131693		201728222	Yes	
34032	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201680061600		108181342	Yes	
34033	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	FPR	APP-Pending	HK	18314227Z		1255137	Yes	
34034	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	US	15/767219		US-2019-0075596-A1	Yes	
34035	RAN RE-ARCHITECTURE FOR NETWORK SLICING	[redacted]	[redacted]	NP	APP-Pending	TW	105131893		201717686	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34036	Apparatuses Systems and Methods for Managing Operation Status of Wireless Transmissions and Receptions	[redacted]	[redacted]	NP	PAT-Active	US	12/851764	8743859	US-2011-0032924-A1		
34037	DEVICE SYSTEM AND METHOD FOR MANAGING STATUS OF WIRELESS TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	CN	201010249150X	ZL2010102491508	101945464		
34038	CHANNEL STATE INFORMATION (CSI) MEASUREMENTS AND CSI REPORTING IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	EPT	APP-Pending	EP	16766687.3		3371923	Yes	
34039	CHANNEL STATE INFORMATION (CSI) MEASUREMENTS AND CSI REPORTING IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Pending	US	15/767861		US-2018-0310193-A1	Yes	
34040	SYNCHRONIZATION SIGNAL DESIGN FOR NARROWBAND INTERNET OF THINGS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680020955		108353055		
34041	SYNCHRONIZATION SIGNAL DESIGN FOR NARROWBAND INTERNET OF THINGS COMMUNICATIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	18115642.0		1256567		
34042	SYNCHRONIZATION SIGNAL DESIGN FOR NARROWBAND INTERNET OF THINGS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	15/766772		US-2018-0295007-A1		
34043	METHOD AND SYSTEM FOR DOUBLE-END TALK DETECTION AND METHOD AND SYSTEM FOR ECHO ELIMINATION	[redacted]	[redacted]	NP	PAT-Active	US	12/792884	8271051	US-2011-0174380-A1		
34044	METHOD AND SYSTEM FOR JUDGING DOUBLE-END CONVERSATION AND METHOD AND SYSTEM FOR ELIMINATING ECHO	[redacted]	[redacted]	NP	PAT-Active	CN	200910224948X	ZL2009102249489	101719969		
34045	FULL DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	EPT	APP-Pending	EP	16716410.2		3371895	Yes	
34046	FULL DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Pending	US	15/765895		US-2018-0089423-A1	Yes	
34047	COMMUNICATION ACCESS PROGRAM METHOD DEVICE AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	201010273361.5	ZL2010102733615	101951643		
34048	APPARATUS SYSTEM AND METHOD FOR ACCESS PROCEDURE ENHANCEMENTS	[redacted]	[redacted]	DIV	PAT-Active	US	14/675456	9668308	US-2015-0208437-A1		
34049	Distributed Scheduling Method for Fronthaul-Based C-RAN Wireless Network Architecture	[redacted]	[redacted]	PCT	APP-Pending	CN	201580084798.5		108293264		
34050	Distributed Scheduling Method for Fronthaul-Based C-RAN Wireless Network Architecture	[redacted]	[redacted]	EPT	APP-Pending	EP	15911105.3		3395113		
34051	Distributed Scheduling Method for Fronthaul-Based C-RAN Wireless Network Architecture	[redacted]	[redacted]	PCT	APP-Pending	US	15/777436		US-2018-0359770-A1		
34052	USER EQUIPMENT AND METHOD FOR MEASUREMENT OF SIDE-LINK REFERENCE SIGNAL RECEIVED POWER (S-RSRP)	[redacted]	[redacted]	NP	PAT-Active	US	14/977463	9974039	US-2017-0181011-A1		
34053	USER EQUIPMENT AND METHOD FOR MEASUREMENT OF SIDE-LINK REFERENCE SIGNAL RECEIVED POWER (S-RSRP)	[redacted]	[redacted]	NP	APP-Pending	CN	201611022037X		106993269		
34054	MULTIBAND DATA DELIVERY DEVICE AND METHOD	[redacted]	[redacted]	PCT	APP-Pending	CN	201580084794.7		108293241		
34055	MULTIBAND DATA DELIVERY DEVICE AND METHOD	[redacted]	[redacted]	EPT	APP-Pending	EP	15911485.9		3395106		
34056	MULTIBAND DATA DELIVERY DEVICE AND METHOD	[redacted]	[redacted]	PCT	APP-Pending	US	16/064056		US-2018-0376374-A1		
34057	METHODS AND DEVICES FOR MANAGING PACKET DATA NETWORK CONNECTIONS	[redacted]	[redacted]	NP	APP-Pending	DE	102016102983.1		102016102983		
34058	METHODS AND DEVICES FOR MANAGING PACKET DATA NETWORK CONNECTIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/071077		US 2020-0084691 A1		
34059	TIME GRID WITH TIME DIVISION DUPLEX SWITCHING INTERVALS	[redacted]	[redacted]	EPT	APP-Pending	EP	16718762.4		3363128	Yes	
34060	TIME GRID WITH TIME DIVISION DUPLEX SWITCHING INTERVALS	[redacted]	[redacted]	PCT	APP-Pending	US	15/756745		US-2018-0352554-A1	Yes	
34061	COMMUNICATION TRANSMISSION SYSTEM AND METHOD FOR xHRPD	[redacted]	[redacted]	NP	PAT-Active	US	14/790645	9930636	US-2016-0212726-A1		
34062	COMMUNICATION TRANSMISSION SYSTEM AND METHOD FOR xHRPD	[redacted]	[redacted]	NP	PAT-Active	JP	2015-177617	6181123	2016-134912		
34063	METHOD FOR UPDATING PREFERRED ROAMING LIST OF UIM CARD	[redacted]	[redacted]	NP	PAT-Active	US	15/183307	9930521	US-2017-0013464-A1		
34064	METHODS FOR UPDATING PREFERRED ROAMING LIST OF UIM CARD	[redacted]	[redacted]	NP	PAT-Active	CN	201510400940X	ZL2015104009404	105025456		
34065	METHOD FOR UPDATING PREFERRED ROAMING LIST OF USER IDENTITY MODULE CARD	[redacted]	[redacted]	NP	APP-Pending	IN	2016440214.1		2016440214.1		
34066	AFC/TXAGC PDM INL	[redacted]	[redacted]	NP	PAT-Active	US	15/156672	10378590	US-2017-0019088-A1		
34067	AFC/TXAGC PDM INL	[redacted]	[redacted]	NP	PAT-Active	CN	201510824522.9	ZL2015108245229	105071792		
34068	PULSE DENSITY MODULATION VALUE CONVERTER AND APPLICATION THEREOF	[redacted]	[redacted]	NP	APP-Pending	IN	2016440214.8		2016440214.8		
34069	BATCH NOTIFICATION IN ONEM2M ENVIRONMENTS	[redacted]	[redacted]	NP	PAT-Active	US	14/789445	10070411	US-2016-0366663-A1		
34070	BATCH NOTIFICATION IN ONEM2M ENVIRONMENTS	[redacted]	[redacted]	NP	PAT-Active	KR	10-2015-0125807	10-1713092	10-2016-0147609		
34071	METHODS FOR CONTROLLING MOBILE PHONES AND INSTRUMENTS AND SYSTEMS USING THE SAME	[redacted]	[redacted]	NP	APP-Pending	US	15/183980		US-2017-0019514-A1		
34072	METHODS FOR CONTROLLING MOBILE PHONES AND INSTRUMENTS AND SYSTEMS USING THE SAME	[redacted]	[redacted]	NP	APP-Pending	CN	201510412278.4		105100343		
34073	METHOD FOR MOBILE PHONE AND INSTRUMENT CONTROL AND SYSTEM USING THE METHOD	[redacted]	[redacted]	NP	APP-Pending	IN	2016440214.3		2016440214.3		
34074	MOBILE DEVICE RADIO TRANSCEIVER CIRCUIT AND IMPEDANCE ADJUSTMENT DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	15/156056	10164668	US-2017-0019134-A1		
34075	MOBILE DEVICE RADIO TRANSCEIVER CIRCUIT AND IMPEDANCE ADJUSTMENT DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201510424768.9		104967460		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34077	MOBILE PHONE DEVICE RADIO FREQUENCY TRANSCEIVER CIRCUIT AND IMPEDANCE ADJUSTING DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	2016440215.8		2016440215.8		
34078	DEVICE AND METHOD FOR PROLONGING DORMANCY PERIOD OF INTERNET OF THINGS DEVICE	[redacted]	[redacted]	NP	APP-Closed	CN	201310804159.0		103447398		
34079	M2M DEVICES AND COMMUNICATION METHODS THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	14/472580	9510291	US-2015-0065129-A1		
34080	M2M DEVICE AND COMMUNICATION METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201310389312.9	ZL2013103893121	103482327		
34081	PHASE-LOCKED LOOP CIRCUIT WITH IMPROVED PERFORMANCE	[redacted]	[redacted]	NP	PAT-Active	US	14/332614	9294104	US-2016-0020773-A1		
34082	LOCKED LOOP CIRCUIT WITH IMPROVED PERFORMANCE	[redacted]	[redacted]	NP	PAT-Active	CN	201510366802.9	ZL2015103668029	104917519		
34083	AMPLIFIER APPARATUS AND SOFT-START METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	14/485169	9438179	US-2015-0249430-A1		
34084	AMPLIFIER APPARATUS AND SOFT-START METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201810069582.9	ZL2014100695829	103795361		
34085	LTECDMA 1X HYBRID	[redacted]	[redacted]	NP	PAT-Active	US	14/168679	9723648	US-2014-0219247-A1		
34086	LTECDMA 1X HYBRID DEVICE AND METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	201410042862.0	ZL2014100428620	103974359		
34087	APPARATUS AND METHOD FOR TUNNELED GPM	[redacted]	[redacted]	NP	PAT-Active	US	13/948485	9451469	US-2014-0022962-A1		
34088	DEVICE AND METHOD FOR TUNNEL GENERAL PAGE MESSAGE	[redacted]	[redacted]	NP	PAT-Active	CN	201310311690.8	ZL2013103116908	103442438		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34089	DEEP SLEEP IN 1X M2M DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/995629	9344967	US-2013-0324122-A1		
34090	METHOD AND APPARATUS FOR DEEP SLEEP IN 1X M2M DEVICES	[redacted]	[redacted]	NP	PAT-Active	CN	201310218496S	ZL2013102 184965	103327582		
34091	MOBILE COMMUNICATION DEVICES CELLULAR ACCESS STATIONS AND OPERATION MANAGEMENT METHODS FOR MACHINE-TO-MACHINE (M2M) COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/869053	9668538	US-2013-0265952-A1		
34092	COMMUNICATION APPARATUS SERVICE NETWORK AND OPERATIONAL MANAGEMENT METHOD FOR MACHINE-TO-MACHINE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310111205235	ZL2013101 120523	103200517		
34093	MOBILE COMMUNICATION APPARATUS FOR INTERNET OF THINGS SERVICE NETWORK AND	[redacted]	[redacted]	NP	APP-Closed	CN	201310112731 7		103709884		
34094	TEST SYSTEM AND TEST METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	201310285668S	ZL2013102 856680	103309784		
34095	MECHANISMS FOR SINGLE FREQUENCY NETWORKS IN HIGH-SPEED MOBILE SCENARIOS	[redacted]	[redacted]	PCT	APP-Pending	US	15/772473		US-2018-0316409-A1		
34096	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENT FOR NARROW BAND MACHINE-TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/767123		US-2018-0074818-A1		
34097	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENT FOR NARROW BAND MACHINE-TYPE COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	TW	105132560		201717683		
34098	PACKAGE PARAMETER MAINTENANCE METHOD AND RECEIVER THEREFORE	[redacted]	[redacted]	NP	PAT-Active	CN	201010239631 0	ZL2010102 396310	101902299		
34099	CLOCK GENERATOR CLOCK GENERATION METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201010167993 2	ZL2010101 679632	101854156		
34100	CLOCK GENERATOR AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	PAT-Active	CN	201710489559 3	ZL2012104 895593	102983843		
34101	QUALITY OF SERVICE CONTROL OF REVERSE TRAFFIC CHANNEL FOR A MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	12/754684	8238817	US-2011-0242986-A1		
34102	METHOD FOR PROVIDING QUALITY OF SERVICE AND ADOPTED MOBILE COMMUNICATION APPARATUS AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	201010243350 2	ZL2010102 433502	101895942		
34103	SOFTWARE AND FIRMWARE UPDATING METHOD AND APPLICABLE WIRELESS INTERNET ACCESS DEVICE THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201010109798S	ZL2010101 097985	101888558		
34104	FAST RESELECTION TO OTHER RADIO ACCESS TECHNOLOGY AFTER CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	NP	PAT-Active	US	12/973344	8565187	US-2011-0222509-A1		
34105	DEVICE AND METHOD FOR FAST SELECTING RADIO ACCESS TECHNOLOGY (RAT)	[redacted]	[redacted]	NP	PAT-Active	CN	201110026849 3	ZL2011100 246493	102076065		
34106	METHODS AND DEVICES FOR REDUCING SIGNALING OVERHEAD	[redacted]	[redacted]	NP	PAT-Active	US	13/153221	8487662	US-2011-0300889-A1		
34107	METHOD AND DEVICE FOR REDUCING SIGNAL BURDEN	[redacted]	[redacted]	NP	PAT-Active	CN	201110148357 0	ZL2011101 483570	102215531		
34108	BUFFER STATUS REPORTING METHODS FOR MACHINE TYPE COMMUNICATION DATA TRANSMISSION AND RELATED MOBILE COMMUNICATION DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	13/153160	8547838	US-2011-0300858-A1		
34109	MOBILE COMMUNICATIONS DEVICES AND TRANSMISSION METHODS FOR TRANSMITTING MACHINE TYPE COMMUNICATION DATA THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	13/153210	8681701	US-2011-0293492-A1		
34110	MOBILE COMMUNICATION DEVICE AND TRANSMISSION METHOD OF MACHINE TYPE COMMUNICATION DATA	[redacted]	[redacted]	NP	PAT-Active	CN	201110149205 2	ZL2011101 492052	102202412		
34111	EARTH WIRE BALANCING DEVICE AND METHOD FOR EXTERNALLY CONNECTED DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201010537502X	ZL2010105 37502X	102054455		
34112	APPARATUSES AND METHODS FOR SAVING POWER IN PAGING OPERATIONS	[redacted]	[redacted]	NP	PAT-Active	US	13/215667	8797933	US-2012-0163259-A1		
34113	CALLING OPERATION ENERGY-SAVING METHOD AND APPLICABLE MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201010060734S 3	ZL2010106 073493	102573019		
34114	APPARATUSES AND METHODS FOR SAVING POWER IN PAGING OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	ID	P00201100661	ID0000039 751			
34115	APPARATUSES AND METHODS FOR SAVING POWER IN PAGING OPERATIONS	[redacted]	[redacted]	NP	APP-Pending	IN	3058/MUM/2011		3058/MUM/2011		
34116	DEVICE AND METHOD IN SUPPORT OF LTE MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	CN	201110222355 7	ZL2011102 235597	102355797		
34117	CLASS IDENTIFICATION METHODS FOR MACHINE-TO-MACHINE (M2M) APPLICATIONS AND APPARATUSES AND SYSTEMS USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	13/291256	9628940	US-2012-0137140-A1		
34118	CLASS IDENTIFICATION METHODS FOR MACHINE-TO-MACHINE (M2M) APPLICATIONS AND APPARATUSES AND SYSTEMS USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	CN	201110369733 3	ZL2011103 697332	102395209		
34119	MOBILE-TERMINATED PACKET TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	15/775094		US-2018-0376373-A1	Yes	
34120	COMMUNICATION METHOD ACCESS NETWORK DEVICE AND COMMUNICATION DEVICE USING THE SAME AND COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/344617	9894597	US-2012-0178446-A1		
34121	COMMUNICATION METHOD ACCESS NETWORK DEVICE AND COMMUNI-CATION DEVICE USING THE SAME AND COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Active	CN	201710009340 5	ZL2017100 934051	102587929		
34122	AUTO RETRANSMISSION REQUEST PROBLEM OF NOTIFYING APPLICATION OF CIRCUIT SERVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201210005162 5	ZL2012100 051625	102571302		
34123	1X MESSAGE PROCESSING	[redacted]	[redacted]	NP	PAT-Active	US	12/986331	8565233	US-2011-0164609-A1		
34124	APPARATUS FOR NOTIFYING OF A CIRCUIT SWITCHED EVENT OVER A PACKETIZED DATA NETWORK AND METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201110007396X	ZL2011100 07396X	102083147		
34125	HYPER TEXT TRANSMISSION PROTOCOL (HTTP) MESSAGE PROCESSING METHOD AND CLIENT SYSTEM THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201010025604 5	ZL2010102 560495	103917476		
34126	ACOUSTIC SHOCK PROTECTION DEVICE AND METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201210260194X	ZL2012102 60194X	102883264		
34127	POWER CONTROL DEVICE FOR MOBILE COMMUNICATION AND METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	13/564277	9072048	US-2013-0038294-A1		
34128	MOBILE COMMUNICATION POWER CONTROL DEVICE AND POWER CONTROL METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	201210272641 3	ZL2012102 726413	102811477		
34129	ANALOG-TO-DIGITAL CONVERTER WITH DELTA-SIGMA MODULATION AND MODULATION UNIT THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	13/418232	8497793	US-2013-0169459-A1		
34130	ANALOG-DIGITAL CONVERTER ADOPTING DELTA-SIGMA MODULATION	[redacted]	[redacted]	NP	PAT-Active	CN	201110459404 3	ZL2011104 594043	102522991		
34131	ELECTRONIC CHIPS WITH SLEW-RATE CONTROL AT OUTPUT SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	13/397087	8648638	US-2013-0176064-A1		
34132	ELECTRONIC CHIP WITH OUTPUT SIGNAL SLEW RATE CONTROL FUNCTION	[redacted]	[redacted]	NP	PAT-Active	CN	201710009380 3	ZL2017100 938012	102522959		
34133	METHOD FOR DETECTING DOUBLE-TALK CONDITION AND SYSTEM USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	13/632183	8934632	US-2014-0093065-A1		
34134	METHOD USED FOR DETECTING DOUBLE-END CONVERSATION CONDITIONS AND SYSTEM THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201210405976 8	ZL2012104 059768	102984406		
34135	SIGNAL AMPLIFYING CIRCUIT AND SIGNAL AMPLIFYING METHOD	[redacted]	[redacted]	NP	PAT-Active	US	12/837754	8547173	US-2011-0261976-A1		
34136	SIGNAL AMPLIFYING CIRCUIT AND SIGNAL AMPLIFYING METHOD	[redacted]	[redacted]	DIV	APP-Pending	CN	201510910639X		107104646		
34137	COMMUNICATION TRANSMISSION METHODS AND SYSTEMS	[redacted]	[redacted]	NP	PAT-Active	US	13/739121	9001834	US-2013-0182642-A1		
34138	COMMUNICATION TRANSMISSION METHODS AND SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	CN	201310010309 3		103124416		

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34135	APPARATUSES SYSTEMS AND METHODS FOR ACCESS CONFIGURATIONS	[redacted]	[redacted]	NP	PAT-Active	US	14/025364	9253800	US-2014-0078964-A1		
34146	APPARATUSES SYSTEMS AND METHODS FOR ACCESS CONFIGURATIONS	[redacted]	[redacted]	CNT	PAT-Active	US	14/980143	9820306	US-2016-0135228-A1		
34161	DEVICE AND METHOD FOR ACCESS CONFIGURATION	[redacted]	[redacted]	NP	PAT-Active	CN	201310416372X	ZL201310416372X 163728	103491608		
34142	METHODS FOR ACCESSING TO BASE STATION THAT USES SACK MECHANISM AND APPARATUSES USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	14/026730	9301204	US-2014-0078962-A1		
34143	METHODS FOR ACCESSING TO BASE STATION THAT USES SACK MECHANISM AND APPARATUSES USING THE SAME	[redacted]	[redacted]	CNT	PAT-Active	US	15/079802	9699687	US-2017-0026875-A1		
34184	METHOD AND DEVICE FOR BASE STATION ACCESS IN COMMUNICATION SYSTEM USING SACK MECHANISM	[redacted]	[redacted]	NP	PAT-Active	CN	201310424444X	ZL201310424444X 244443	103491601		
34145	MOBILE COMMUNICATION DEVICE SUITABLE FOR MULTIMODE COMMUNICATION AND INTEGRATED CIRCUIT THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201310129748X	ZL201310129748X 297487	103260268		
34146	MOVABLE DEVICE AND ANTI-THEFT METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201410268949X	ZL201410268949X 449499	104123131		
34147	REFERENCE VOLTAGE GENERATING DEVICE AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	14/631852	9304526	US-2015-0241889-A1		
34148	REFERENCE VOLTAGE GENERATING DEVICE AND METHOD	[redacted]	[redacted]	CNT	PAT-Active	US	15/090548	9787308	US-2016-0359485-A1		
34149	REFERENCE VOLTAGE GENERATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	CN	201410068218X	ZL201410068218X 682180	103901954		
34150	METHODS FOR ACCESSING TO BASE STATION THAT USES SACK MECHANISM AND APPARATUSES USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	14/028743	9769704	US-2014-0078963-A1		
34151	METHOD AND DEVICE FOR ACCESSING BASE STATION IN COMMUNICATION SYSTEM WITH SELECTION CONFIRMING MECHANISM	[redacted]	[redacted]	NP	PAT-Active	CN	201310424441X	ZL201310424441X 244441X	103475454		
34152	APPARATUS AND METHOD FOR ACCESS PROBE HANDOFF	[redacted]	[redacted]	NP	PAT-Active	US	14/079345	9642061	US-2014-0146793-A1		
34153	METHODS FOR RETRANSMITTING REVERSE LINK DATA AND APPARATUSES USING THE SAME	[redacted]	[redacted]	NP	PAT-Active	US	14/029835	9584384	US-2014-0078883-A1		
34154	REVERSE LINK DATA RETRANSMISSION METHOD AND DEVICE USING SAME	[redacted]	[redacted]	NP	PAT-Active	CN	201310429780X	ZL201310429780X 297903	103490868		
34155	COMMUNICATION SYSTEM AND METHOD OF DATA TRANSMISSION FOR A MEDIUM ACCESS CONTROL LAYER	[redacted]	[redacted]	NP	PAT-Active	US	14/054302	9295085	US-2014-0105137-A1		
34156	DATA TRANSMISSION METHOD AND SYSTEM OF MEDIA ACCESS CONTROL LAYER	[redacted]	[redacted]	NP	PAT-Active	CN	201310482316X	ZL201310482316X 823107	103546251		
34157	DEVICE AND METHOD USED FOR ACCESS DETECTION SWITCHING	[redacted]	[redacted]	NP	PAT-Active	CN	201310389563X	ZL201310389563X 389563X	103582081		
34158	MIXING DEVICE AND SYSTEM SUPPORTING LTE (LONG TERM EVOLUTION) AND 3G (3RD GENERATION) COMMUNICATION STANDARDS	[redacted]	[redacted]	NP	PAT-Active	CN	201310109901X	ZL201310109901X 099015X	103152849		
34159	MIXING DEVICE AND SYSTEM SUPPORTING LTE (LONG TERM EVOLUTION) AND 3G (3RD GENERATION) COMMUNICATION STANDARDS	[redacted]	[redacted]	DIV	PAT-Active	CN	201610183576S	ZL201610183576S 835765	105848397		
34160	MIXING DEVICE AND SYSTEM SUPPORTING LTE (LONG TERM EVOLUTION) AND 3G (3RD GENERATION) COMMUNICATION STANDARDS	[redacted]	[redacted]	FPD	APP-Pending	HK	16112786S		1224868		
34161	LTE-1X HYBRID DEVICE AND SYSTEM	[redacted]	[redacted]	NP	PAT-Active	US	13/853119	10154546	US-2014-0295912-A1		
34162	ECALL SYSTEM	[redacted]	[redacted]	NP	APP-Pending	CN	201510106580?		104754511		
34163	FREQUENCY CALIBRATION METHOD FOR A VOLTAGE-CONTROLLED OSCILLATOR	[redacted]	[redacted]	NP	PAT-Active	US	14/709712	9621174	US-2016-0336945-A1		
34164	FREQUENCY CALIBRATION METHOD FOR A VOLTAGE-CONTROLLED OSCILLATOR	[redacted]	[redacted]	NP	PAT-Active	CN	201510593675S	ZL201510593675S 936756	105281758		
34165	CALL CONTROL METHOD BASED ON APPLICATION PRIORITY	[redacted]	[redacted]	NP	PAT-Active	US	14/802214	9955000	US-2016-0021257-A1		
34166	TERMINAL EQUIPMENT AND CONTROL METHOD AND SYSTEM THEREOF	[redacted]	[redacted]	NP	APP-Pending	CN	201410837525S		104571914		
34167	ADAPTABLE MULTIMODE LOCATION PROTOCOL MANAGER	[redacted]	[redacted]	NP	PAT-Active	US	14/820675	10419877	US-2015-0304808-A1		
34168	ADAPTABLE MULTIMODE LOCATION PROTOCOL MANAGER	[redacted]	[redacted]	NP	PAT-Active	CN	201510187453X	ZL201510187453X 874534	105119873		
34169	MULTI-PHASE SIGNAL GENERATOR AND MULTI-PHASE SIGNAL GENERATING METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	14/469161	9331674	US-2015-0244350-A1		
34170	MULTI-PHASE SIGNAL GENERATOR AND MULTI-PHASE SIGNAL GENERATING METHOD THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201410059331X	ZL201410059331X 693310	103944564		
34171	RATE-COMPATIBLE OPERATION WITH LOW DENSITY PARITY- CHECK CODES	[redacted]	[redacted]	NP	APP-Pending	TW	105133412		201729546	Yes	
34172	RADIO FREQUENCY RECEIVER CIRCUIT AND THE INDUCTOR-COUPLING SINGLE-ENDED INPUT DIFFERENTIAL-OUTPUT LOW-NOISE AMPLIFIER THEREOF	[redacted]	[redacted]	NP	PAT-Active	US	14/889684	9887714			
34173	RADIO FREQUENCY RECEIVER CIRCUIT AND THE INDUCTOR-COUPLING SINGLE-ENDED-INPUT DIFFERENTIAL-OUTPUT LOW NOISE AMPLIFIER THEREOF	[redacted]	[redacted]	NP	PAT-Active	CN	201510306291S	ZL201510306291S 629151	104935267		
34174	MILLIMETER WAVE BROADCAST AND UNICAST CHANNEL DESIGN AND GENERIC TRANSMIT ARCHITECTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105134955		201722109	Yes	
34175	SYSTEMS METHODS AND DEVICES FOR MITIGATING BEAM INTERFERENCE IN BEAM BASED CELL-LESS OPERATION	[redacted]	[redacted]	NP	APP-Pending	TW	105134438		201740696	Yes	
34176	A TIME DIVISION DUPLEX (TDD) SYSTEM WITH A LOW LATENCY AND HIGH THROUGHPUT SUBFRAME STRUCTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105133588		201731249	Yes	
34177	Apparatuses and Methods for Coordinating Operations of Multiple Wireless Communications Modules with Multiple Subscriber Numbers	[redacted]	[redacted]	NP	PAT-Active	US	13/075045	9337417	US-2011-0235587-A1		
34178	MOBILE COMMUNICATION DEVICE AND OPERATION COORDINATION METHOD	[redacted]	[redacted]	DIV	APP-Pending	CN	201511027252S		107105429		
34179	MOBILE DEVICE AND METHOD OF INFORMATION TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/641584	9918187	US-2015-0264633-A1		
34180	MOBILE DEVICE AND INFORMATION TRANSMISSION METHOD	[redacted]	[redacted]	NP	PAT-Active	CN	201510080377S	ZL201510080377S 827788	104602228		
34181	MOBILE DEVICE AND INFORMATION TRANSMISSION METHOD	[redacted]	[redacted]	NP	APP-Pending	CN	201510107649S		104837109		
34182	MOBILE DEVICE AND METHOD OF INFORMATION TRANSMISSION	[redacted]	[redacted]	NP	PAT-Active	US	14/656333	9955379	US-2015-0264561-A1		
34183	EVENTS TO TRIGGER BRS-RP (BEAM REFERENCE SIGNAL RECEIVED POWER) REPORT	[redacted]	[redacted]	NP	APP-Pending	TW	105135343		201731236	Yes	
34184	PROVIDING DIFFERENT RADIO ACCESS NETWORKS INDEPENDENT STANDARDIZED ACCESS TO A CORE NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	105135467		201724827	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34186	CHANNEL STATE INFORMATION REFERENCE SIGNAL GENERATION WITH REDUCED ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYMBOLS	[redacted]	[redacted]	NP	APP-Pending	TW	105135348		201731246	Yes	
34187	CONTROL SIGNALING IN MULTIPLE BEAM OPERATION	[redacted]	[redacted]	NP	APP-Pending	TW	105134291		201722097	Yes	
34188	DEVICES AND METHODS OF MOBILITY ENHANCEMENT AND WEARABLE DEVICE PATH SELECTION	[redacted]	[redacted]	NP	APP-Pending	TW	105134954		201725926	Yes	
34189	PARTIAL SUBFRAME TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]	[redacted]	EPT	APP-Pending	EP	16730980S		3371920	Yes	
34190	PARTIAL SUBFRAME TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	US	15/757812		US-2018-0302926-A1	Yes	
34191	SYNCHRONIZATION SIGNALS FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580084076X		108181296	Yes	
34192	SYNCHRONIZATION SIGNALS FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	FPR	APP-Pending	HK	18114724S		1255135	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34193	SYNCHRONIZATION SIGNALS FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	PCT	PAT-Active	US	15/771868	10476612	US-2018-0316453-A1	Yes	
34194	MULTI-SUBFRAME UPLINK SCHEDULING IN UNLICENSED SPECTRUM	[redacted]	[redacted]	EPT	APP-Pending	EP	16873495Z		3387871	Yes	
34195	MULTI-SUBFRAME UPLINK SCHEDULING IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	US	15/775745		US-2018-0352564-A1	Yes	
34196	Digital Pre-Emphasis Quadrature Imbalance Compensating Filter	[redacted]	[redacted]	NP	APP-Pending	US	15/168552		US-2017-0346509-A1		
34197	DIGITAL PRE-EMPHASIS QUADRATURE IMBALANCE COMPENSATING FILTER	[redacted]	[redacted]	NP	APP-Pending	CN	201710299283B		107453771		
34198	TRANSMIT AMPLITUDE AND PHASE MODULATION BASED ON TWO CONSTANT-AMPLITUDE PHASORS	[redacted]	[redacted]	NP	PAT-Active	US	15/064020	9614713			
34199	TRANSMIT AMPLITUDE AND PHASE MODULATION BASED ON TWO CONSTANT-AMPLITUDE PHASORS	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001255		112017001215		
34200	TRANSMISSION POWER CONTROL METHODS AND DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	15/088496	10004048	US-2017-0289929-A1		
34201	TRANSMISSION POWER CONTROL METHODS AND DEVICES	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001615		112017001615		
34202	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	EPA	PAT-Active	EP	1615987435	3217554	3217554		
34203	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	EPA	PAT-Active	DE	1615987435	3217554	3217554		
34204	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	EPA	PAT-Active	FR	1615987435	3217554	3217554		
34205	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	EPA	PAT-Active	GB	1615987435	3217554	3217554		
34206	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	EPA	PAT-Active	NL	1615987435	3217554	3217554		
34207	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201780011212I		108604980		
34208	APPARATUSES AND METHODS FOR COMPENSATING PHASE FLUCTUATIONS	[redacted]	[redacted]	PCT	APP-Pending	JP	2018-538575		2019-516260		
34209	APPARATUSES AND METHODS FOR COMPENSATING PHASEFLUCTUATIONS	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7022929		10-2018-0115265		
34210	APPARATUSES AND METHODS FOR COMPENSATING PHASE FLUCTUATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/076716		US-2019-0052452-A1		
34211	HORIZONTAL NETWORK SLICING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	16706899S		3387818	Yes	
34212	HORIZONTAL NETWORK SLICING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	APP-Pending	TW	105134424		201724880	Yes	
34213	DOWNLINK REACHABILITY FOR ULTRA LOW POWER SAVING DEVICES USING D2D	[redacted]	[redacted]	NP	APP-Pending	TW	105135754		201733328	Yes	
34214	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	NP	PAT-Active	US	15/802184	10064046	US-2017-0374548-A1		
34215	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	EPA	PAT-Active	EP	1617611845	3261401	3261401		
34216	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	EPA	PAT-Active	DE	1617611845	3261401	3261401		
34217	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	EPA	PAT-Active	FR	1617611845	3261401	3261401		
34218	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	EPA	PAT-Active	GB	1617611845	3261401	3261401		
34219	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	[redacted]	[redacted]	EPA	PAT-Active	NL	1617611845	3261401	3261401		
34220	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	[redacted]	[redacted]	NP	PAT-Active	US	15/480416	10448287	US-2017-0332287-A1		
34221	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	[redacted]	[redacted]	EPA	PAT-Active	EP	1616894195	3244655	3244655		
34222	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	[redacted]	[redacted]	EPA	PAT-Active	DE	1616894195	3244655	3244655		
34223	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	[redacted]	[redacted]	EPA	PAT-Active	FR	1616894195	3244655	3244655		
34224	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	[redacted]	[redacted]	EPA	PAT-Active	GB	1616894195	3244655	3244655		
34225	APPARATUS OF A USER EQUIPMENT ADAPTED FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION USED IN MOBILE COMMUNICATION AND METHOD FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION	[redacted]	[redacted]	NP	APP-Pending	US	15/607709		US-2018-0007525-A1		
34226	APPARATUS OF A USER EQUIPMENT ADAPTED FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION USED IN MOBILE COMMUNICATION AND METHOD FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION	[redacted]	[redacted]	EPA	APP-Pending	EP	1617746825		3264895		
[redacted]											
34231	COMMUNICATION DEVICE AND METHOD FOR RESUMING DATA RECEPTION	[redacted]	[redacted]	EPA	APP-Pending	EP	1619077875		3390435		
34232	COMMUNICATION DEVICE AND METHOD FOR RESUMING DATA RECEPTION	[redacted]	[redacted]	NP	APP-Pending	CN	201710774645Z		107872867		
34233	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	NP	PAT-Active	US	15/185879	10159016	US-2017-0325130-A1		
34234	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	EPA	PAT-Active	EP	1716529025	3242508	3242508		
34235	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	EPA	PAT-Active	DE	1716579025	3242508	3242508		
34236	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	EPA	PAT-Active	FR	1716529025	3242508	3242508		
34237	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	EPA	PAT-Active	GB	1716529025	3242508	3242508		
34238	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	[redacted]	[redacted]	EPA	PAT-Active	NL	1716529025	3242508	3242508		
34239	DEVICES AND METHOD FOR CELL SEARCH AND DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	15/084521	9609585			
34240	DEVICES AND METHOD FOR CELL SEARCH AND DETECTION	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001614Z		112017001614		
34241	PROCESSING TRACING INFORMATION OF A RADIO SIGNAL	[redacted]	[redacted]	NP	APP-Pending	DE	102016104978Z		102016104978		
34242	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Pending	CN	201880083102I		108713293		
34243	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Pending	DE	112018000866Z		112018000866		
34244	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Pending	JP	2018-536509		2019-514232		
34245	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2018-7025043		10-2018-0129774		
34246	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Pending	US	16/081670		US-2019-0260457-A1		
34247	METHODS AND COMMUNICATION DEVICES FOR PERFORMING CELL SEARCH AND DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	15/079119	9877270	US-2017-0280374-A1		
34248	METHODS AND COMMUNICATION DEVICES FOR PERFORMING CELL SEARCH AND DETECTION	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001488Z		112017001488		
34249	METHOD APPARATUS AND SYSTEM FOR BEAM ACQUISITION IN A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	DE	112016006356Z		112016006356		
34250	METHOD APPARATUS AND SYSTEM FOR BEAM ACQUISITION IN A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/088110		US-2019-0028173-A1		
34251	SYNTHESIS DEVICE AND SYSTEM FOR GENERATING CHANNEL ESTIMATION FILTER COEFFICIENTS	[redacted]	[redacted]	EPA	APP-Pending	EP	1615900145		3317617		

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34252	SYSTEMS AND METHODS FOR MTC UES WITH SCALABLE BANDWIDTH SUPPORT	[redacted]	[redacted]	NP	APP-Pending	TW	105136485		201731323	Yes	
34253	MULTIPLEXING OF CONTROL SIGNALING AND DATA TRANSMISSION IN ENHANCED FRAME STRUCTURES	[redacted]	[redacted]	NP	APP-Pending	TW	105138118		201733328	Yes	
34254	GROUP HANDOVER FOR MISSION CRITICAL APPLICATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	105140112		201735707	Yes	
34255	SCHEDULING REQUEST IN EXTREMELY HIGH FREQUENCY SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	16712677D		3398391	Yes	
34256	SCHEDULING REQUEST IN EXTREMELY HIGH FREQUENCY SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105139278		201733329	Yes	
34257	ARRANGEMENT FOR CONCURRENT DETECTION OF SIGNALS IN A RECEIVER	[redacted]	[redacted]	NP	PAT-Active	US	15/292707	10237898	US-2018-0063873-A1		
34258	TRANSCEIVERTRANSMITTERRECEIVER AND METHOD FOR DETERMINING A MINIMUM SUPPLY VOLTAGE FOR RECEIVERS AND TRANSMITTERS	[redacted]	[redacted]	EPA	APP-Pending	EP	16163260S		3226624		
34259	TRANSCEIVERTRANSMITTERRECEIVER AND METHOD FOR DETERMINING A MINIMUM SUPPLY VOLTAGE FOR RECEIVERS AND TRANSMITTERS	[redacted]	[redacted]	PCT	APP-Pending	CN	201780020340?		108886411		
34260	Transceiver transmitter receiver and method for determining a minimum supply voltage for receivers and transmitters	[redacted]	[redacted]	PCT	APP-Pending	US	16/078667		US-2019-0080196-A1		
34261	DETERMINATION OF AN ADVANCED PHYSICAL UPLINK CHANNEL RESOURCE	[redacted]	[redacted]	PCT	APP-Pending	US	15/781462			Yes	
34262	DETERMINATION OF AN ADVANCED PHYSICAL UPLINK CHANNEL RESOURCE	[redacted]	[redacted]	NP	APP-Pending	TW	105139950		201735687	Yes	
34263	ENCODING AND DECODING USING LOW-DENSITY PARITY-CHECK MATRICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680071127X		108370284	Yes	
	[redacted]										
34265	ENCODING AND DECODING USING LOW-DENSITY PARITY-CHECK MATRICES	[redacted]	[redacted]	NP	APP-Pending	TW	105139901		201725862	Yes	
34266	TECHNIQUES FOR INSTANTIATION AND TERMINATION OF VIRTUALIZED NETWORK FUNCTIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680072291?		108370331	Yes	
	[redacted]										
34268	TECHNIQUES FOR INSTANTIATION AND TERMINATION OF VIRTUALIZED NETWORK FUNCTIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/060916		US-2018-0367372-A1	Yes	
34269	TECHNIQUES FOR INSTANTIATION AND TERMINATION OF VIRTUALIZED NETWORK FUNCTIONS	[redacted]	[redacted]	NP	APP-Pending	TW	105140408		201725881	Yes	
34270	SECTOR SWEEPS FOR ESTABLISHING TWO-WAY DATA COMMUNICATIONS WITH DIRECTIONAL ANTENNAS	[redacted]	[redacted]	PCT	APP-Pending	US	16/078569		US-2019-0052326-A1	Yes	
34271	OPPORTUNISTIC GUARD BAND ACCESS FOR OPPORTUNISTIC INTERNET OF THINGS (IoT) DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084306?		108886790	Yes	
	[redacted]										
34273	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	CN	201680076082?		108832198	Yes	
34274	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	[redacted]	[redacted]	EPR	APP-Pending	HK	19119313S		1259515	Yes	
34275	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	US	16/068883		US-2019-0029005-A1	Yes	
34276	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	[redacted]	[redacted]	CNT	APP-Pending	US	16/807359		US-2019-0335428-A1	Yes	
34277	NB-IOT SYNCHRONIZATION SIGNALS WITH OFFSET INFORMATION	[redacted]	[redacted]	EPT	APP-Pending	EP	16864129A		3400663		
34278	NB-IOT SYNCHRONIZATION SIGNALS WITH OFFSET INFORMATION	[redacted]	[redacted]	PCT	APP-Pending	US	15/777641		US-2018-0376405-A1		
34279	PERFORMANCE MONITORING TECHNIQUES FOR VIRTUALIZED RESOURCES	[redacted]	[redacted]	EPT	APP-Pending	EP	16790460S		3400681	Yes	
34280	PERFORMANCE MONITORING TECHNIQUES FOR VIRTUALIZED RESOURCES	[redacted]	[redacted]	PCT	APP-Pending	US	16/060912		US-2018-0367373-A1	Yes	
34281	PERFORMANCE MONITORING TECHNIQUES FOR VIRTUALIZED RESOURCES	[redacted]	[redacted]	NP	APP-Pending	TW	105140114		201734784	Yes	
34282	UPLINK DM-RS TRANSMISSION FOR PUSCH TRANSMISSIONS WITH SHORTENED TTI	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080686?		108702269		
	[redacted]										
34284	MULTI-SHOT APERIODIC CHANNEL STATE INFORMATION REPORT FOR FULL DIMENSION-MULTIPLE INPUT MULTIPLE OUTPUT SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	17748262?		3421997		
34285	DYNAMIC HARQ CONFIGURATION AND BITMAP BASED ACK/NACK	[redacted]	[redacted]	PCT	APP-Pending	US	15/766466		US-2018-0294924-A1	Yes	
34286	CELLULAR INTERNET OF THINGS (CIOT) OPTIMIZATIONS FOR NARROWBAND (NB) AND NON-NB IOT NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	16826874S		3403465	Yes	
34287	CELLULAR INTERNET OF THINGS (CIOT) OPTIMIZATIONS FOR NARROWBAND (NB) AND NON-NB IOT NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	16/064381		US-2018-0376531-A1	Yes	
34288	ACKNOWLEDGEMENT (ACK) TRANSMISSIONS USING A SELF-CONTAINED SUBFRAME STRUCTURE	[redacted]	[redacted]	EPT	APP-Pending	EP	16725719S		3403350	Yes	
34289	ACKNOWLEDGEMENT (ACK) TRANSMISSIONS USING A SELF-CONTAINED SUBFRAME STRUCTURE	[redacted]	[redacted]	NP	APP-Pending	TW	105139839		201728112	Yes	
34290	5G FDD LOW LATENCY TRANSMISSION SUBFRAME STRUCTURE SYSTEM AND METHOD OF USE	[redacted]	[redacted]	PCT	APP-Pending	US	16/059819		US-2019-0037640-A1	Yes	
34291	5G FDD LOW LATENCY TRANSMISSION SUBFRAME STRUCTURE SYSTEM AND METHOD OF USE	[redacted]	[redacted]	NP	APP-Pending	TW	105140685		201735576	Yes	
34292	A MULTIPLE BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/082365		US-2019-0081672-A1	Yes	
34293	APPARATUS AND METHOD FOR CONTROL SIGNALING OF CSI-RS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680037333		109314872	Yes	
	[redacted]										
34295	NETWORK FUNCTION VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084433?		109074280	Yes	
34296	NETWORK FUNCTION VIRTUALIZATION	[redacted]	[redacted]	NP	APP-Pending	TW	106105384		201810991	Yes	
34297	HYBRID OPEN-LOOP AND CLOSED-LOOP BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680082756?		108702182	Yes	
	[redacted]										
34299	HYBRID OPEN-LOOP AND CLOSED-LOOP BEAMFORMING	[redacted]	[redacted]	NP	APP-Pending	TW	106106230		201782390	Yes	
34300	REFERENCE SIGNAL AND INTERFERENCE MEASUREMENT FOR JOINT SCHEDULER IN FULL-DUPLEX CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580083340?		108565382	Yes	
34301	METHOD APPARATUS AND SYSTEM FOR TRANSMISSION ACKNOWLEDGEMENT CONTROL IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	CN	201980087617X		108713302	Yes	
34302	[redacted]										
34303	CORE NETWORK DESIGN FOR MISSION-CRITICAL IOT	[redacted]	[redacted]	PCT	APP-Pending	US	16/305380		US 2020-0329354 A1	Yes	
34304	NARROW-BAND INTERNET-OF-THINGS ACCESS CONTROL MECHANISMS AND METHODS	[redacted]	[redacted]	EPT	APP-Pending	EP	17701968A		3403443	Yes	
	[redacted]										
34307	INFORMATIONALLY EFFICIENT ERROR CORRECTION CODING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680077069?		109432167	Yes	
34308	INFORMATIONALLY EFFICIENT ERROR CORRECTION CODING	[redacted]	[redacted]	EPR	APP-Pending	HK	19119312?		1259514	Yes	
34309	INFORMATIONALLY EFFICIENT ERROR CORRECTION CODING	[redacted]	[redacted]	NP	APP-Pending	TW	105140269		201733276	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34316	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION OF A CHANNEL RASTER FREQUENCY OFFSET	[redacted]	[redacted]	PCT	APP-Pending	CN	201680073038		108476072		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34317	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION OF A CHANNEL RASTER FREQUENCY OFFSET	[redacted]	[redacted]	EPT	APP-Pending	EP	16885771		3403342		
34313	NETWORK SLICE SELECTION IN NETWORK SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680074291		108432288	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34315	NETWORK SLICE SELECTION IN NETWORK SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/063048		US-2018-0368060-A1	Yes	
34316	NETWORK SLICE SELECTION IN NETWORK SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	105139858		201728221	Yes	
34317	DEVICES AND METHODS FOR PROVIDING 5G UPLINK REQUEST	[redacted]	[redacted]	PCT	APP-Pending	CN	201680074413		108476513	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34319	DEVICES AND METHODS FOR PROVIDING 5G UPLINK REQUEST	[redacted]	[redacted]	NP	APP-Pending	TW	105141071		201735676	Yes	
34320	SAS CONTROLLED INTERFERENCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/308172		US-2019-0272339-A1	Yes	
34321	METHOD OF CSI-RS TRANSMISSION IN SPECIAL SUBFRAMES	[redacted]	[redacted]	EPT	APP-Pending	EP	16745663		3411962	Yes	
34322	METHOD OF CSI-RS TRANSMISSION IN SPECIAL SUBFRAMES	[redacted]	[redacted]	NP	APP-Pending	TW	106101340		201739560	Yes	
34323	DISCOVERY REFERENCE SIGNAL TRANSMISSION WINDOW AND POSITION IDENTIFICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	16871795		3406041	Yes	
34324	SYSTEM AND METHOD FOR SYSTEM INFORMATION TRANSMISSION IN STAND-ALONE MMWAVE SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/065068		US-2019-0013842-A1	Yes	
34325	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	NP	PAT-Active	US	15/491123	9968238	US-2017-0324484-A1		
34326	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	EP	16168749	3244542	3244542		
34327	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	DE	16168749	3244542	3244542		
34328	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	FR	16168749	3244542	3244542		
34329	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	GB	16168749	3244542	3244542		
34330	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	NL	16168749	3244542	3244542		
34331	LOW POWER RADAR DETECTION SYSTEM	[redacted]	[redacted]	NP	APP-Pending	US	15/198527		US-2018-0031767-A1		
34332	LOW POWER RADAR DETECTION SYSTEM	[redacted]	[redacted]	EPA	APP-Pending	EP	17175591		3264127		
34333	METHODS AND DEVICES FOR SPUR CANCELLATION IN DIGITAL PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	PAT-Active	US	15/088388	9780945	US-2017-0288851-A1		
34334	METHODS AND DEVICES FOR SPUR CANCELLATION IN DIGITAL PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	CN	201710121427O		107276586		
34335	WIRELESS POWER TRANSMISSION	[redacted]	[redacted]	NP	APP-Pending	US	15/088316		US-2017-0288446-A1		
34336	DRAHTLOSE LEISTUNGSÜBERTRAGUNG	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001795		112017001795		
34337	METHODS AND MOBILE COMMUNICATION DEVICES FOR PERFORMING SPUR RELOCATION FOR PHASE-LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	US	15/087398		US-2017-0288850-A1		
34338	METHODS AND MOBILE COMMUNICATION DEVICES FOR PERFORMING SPUR RELOCATION FOR PHASE-LOCKED LOOPS	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001706		112017001708		
34339	IMPEDANCE MATCHING MULTIPLE COILS IN AN ELECTRONIC DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	15/086837		US-2017-0288464-A1		
34340	IMPEDANCE MATCHING MULTIPLE COILS IN AN ELECTRONIC DEVICE	[redacted]	[redacted]	PCT	APP-Pending	DE	112017001801		112017001801		
34341	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	EP	16163253	3226499	3226499		
34342	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	DE	16163253	3226499	3226499		
34343	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	FR	16163253	3226499	3226499		
34344	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	GB	16163253	3226499	3226499		
34345	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL	[redacted]	[redacted]	EPA	PAT-Active	NL	16163253	3226499	3226499		
34346	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	15/088179	10057870	US-2017-0289958-A1		
34347	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	EPA	APP-Pending	EP	16163292		3226501		
34348	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	PCT	APP-Pending	CN	201780020055O		108886508		
34349	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	PCT	APP-Pending	US	16/080697		US-2019-0069572-A1		
34350	COMMUNICATION DEVICE AND A METHOD FOR DETERMINING AN INFORMATION FROM ANOTHER APPARATUS	[redacted]	[redacted]	PCT	APP-Pending	US	16/080017		US-2019-0020393-A1		
34351	COMMUNICATION DEVICE AND METHOD FOR REDUCING INTERFERENCE	[redacted]	[redacted]	PCT	APP-Pending	DE	112017000866		112017000866		
34352	COMMUNICATION DEVICE AND METHOD FOR REDUCING INTERFERENCE	[redacted]	[redacted]	PCT	APP-Pending	US	16/080075		US-2019-0052340-A1		
34353	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	NP	PAT-Active	US	15/611021	10425950	US-2018-0007697-A1		
34354	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	EPA	PAT-Active	EP	16177477	3264619	3264619		
34355	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	EPA	PAT-Active	DE	16177477	3264619	3264619		
34356	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	EPA	PAT-Active	FR	16177477	3264619	3264619		
34357	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	EPA	PAT-Active	GB	16177477	3264619	3264619		
34358	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	[redacted]	[redacted]	EPA	PAT-Active	NL	16177477	3264619	3264619		
34359	NAVIGATION DEVICE AND METHOD FOR DETERMINING NAVIGATION INFORMATION	[redacted]	[redacted]	NP	APP-Pending	US	15/086115		US-2017-0285175-A1		
34360	NAVIGATION DEVICE AND METHOD FOR DETERMINING NAVIGATION	[redacted]	[redacted]	NP	APP-Pending	CN	201710118036		107270899		
34361	NAVIGATION DEVICE AND METHOD FOR DETERMINING NAVIGATION INFORMATION	[redacted]	[redacted]	EPA	APP-Pending	EP	17158417		3226033		
34362	METHOD AND DEVICE FOR GAIN ADJUSTMENT IN MOBILITY MEASUREMENTS	[redacted]	[redacted]	NP	APP-Pending	US	15/096531		US-2017-0295116-A1		
34363	METHOD AND DEVICE FOR GAIN ADJUSTMENT IN MOBILITY MEASUREMENTS	[redacted]	[redacted]	EPA	APP-Pending	EP	16168891		3244662		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34368	USER EQUIPMENT (UE) AND METHODS FOR RECEPTION OF DOWNLINK DATA SERVICES	[redacted]	[redacted]	PCT	APP-Pending	DE	112016006968324		112016006968324		
34369	SPREADING OPTIONS FOR NON-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	PCT	APP-Pending	US	16/068754		US-2019-0028931-A1	Yes	
34370	SPREADING OPTIONS FOR NON-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	NP	APP-Pending	TW	106101667		201735704	Yes	
34371	SYSTEM AND METHOD FOR CONTROL CHANNEL BEAM ASSUMPTION	[redacted]	[redacted]	PCT	APP-Pending	US	16/067806		US-2019-0078176-A1	Yes	
34372	APPARATUS SYSTEM AND METHOD OF COMMUNICATING A ZONE IDENTIFIER FOR MANAGEMENT OF SHARED SPECTRUM RESOURCES	[redacted]	[redacted]	EPT	APP-Pending	EP	17708038?		3414931	Yes	
34373	APPARATUS SYSTEM AND METHOD OF COMMUNICATING A ZONE IDENTIFIER FOR MANAGEMENT OF SHARED SPECTRUM RESOURCES	[redacted]	[redacted]	NP	APP-Pending	TW	106103797		201733379	Yes	
34374	UPLINK BEAM REFINEMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	16745762?		3408961	Yes	
34375	REFERENCE SIGNALS AND PHYSICAL BROADCAST CHANNEL FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680076546?		108513693	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34377	IMPROVED SIGNALING FOR BATTERY EFFICIENT STATE TRANSITION IN PCH STATES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084736?		109079625		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34378	METHOD FOR CRC AMBIGUITY AVOIDANCE IN 5G DCI DECODING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680098383?		109314617	Yes	
34380	RATE MATCHING USING LOW-DENSITY PARITY-CHECK CODES	[redacted]	[redacted]	PCT	APP-Pending	US	16/066856		US-2019-0013901-A1	Yes	
34381	LOW LATENCY IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	168292183		3411986		
34382	PHYSICAL DOWNLINK SHARED CHANNEL TRANSMISSION WITH SHORT TRANSMISSION TIME INTERVAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201680078903?		108476121		
34383	PHYSICAL DOWNLINK SHARED CHANNEL TRANSMISSION WITH SHORT TRANSMISSION TIME INTERVAL	[redacted]	[redacted]	PPR	APP-Pending	HK	19190065?				
34384	RESOURCE ALLOCATION IN LOW-LATENCY WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	APP-Pending	EP	17364956?		3412091		
34385	LISTEN-BEFORE-TALK (LBT) FAILURE DURING A RANDOM ACCESS PROCEDURE	[redacted]	[redacted]	PCT	APP-Pending	CN	201780007019?		108476532		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34387	SENSING-BASED COLLISION AVOIDANCE FOR V2V COMMUNICATION	[redacted]	[redacted]	EPT	APP-Pending	EP	168856314		3412103	Yes	
34388	APPARATUS SYSTEM AND METHOD OF VEHICULAR USER EQUIPMENT (UE) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079223?		108475497	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34389	CROSS TRANSMISSION OPPORTUNITY (TXOP) SCHEDULING	[redacted]	[redacted]	PCT	APP-Pending	US	16/069853		US-2019-0021105-A1	Yes	
34391	DYNAMIC RESOURCE ALLOCATIONS AND TRANSMISSION SCHEMES FOR XPUCCH (5G PUCCH)	[redacted]	[redacted]	PCT	APP-Pending	US	16/067677		US-2019-0013908-A1	Yes	
34392	DYNAMIC RESOURCE ALLOCATIONS AND TRANSMISSION SCHEMES FOR XPUCCH (5G PUCCH)	[redacted]	[redacted]	NP	APP-Pending	TW	106101484		201729626	Yes	
34393	SOUNDING REFERENCE SIGNAL IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079248?		108476123		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34395	ALLOCATIONSRESOURCE FOR BEAMFORMING REFERENCE SIGNALS	[redacted]	[redacted]	EPT	APP-Pending	EP	167537586		3411983	Yes	
34396	RESOURCE ALLOCATIONS FOR BEAMFORMING REFERENCE SIGNALS	[redacted]	[redacted]	NP	APP-Pending	TW	106102631		201729615	Yes	
34397	TECHNIQUES FOR CHANNEL STATE DETERMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/025629		WO2018/182745		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34400	TECHNIQUES FOR CHANNEL STATE DETERMINATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/488354		US 2019-0379468 A1		
34401	SYSTEMS AND METHODS FOR REDUCING INTERRUPTIONS IN DATA TRANSMISSIONS DUE TO HANDOVER OPERATIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079027?		108702673	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	
34403	TIMER CONFIGURATION TECHNIQUES FOR COVERAGE ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Pending	US	16/074046		US-2019-0045581-A1		
34404	SYSTEMS AND METHODS FOR REDUCING INTERRUPTIONS IN DATA TRANSMISSIONS DUE TO HANDOVER OPERATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	167414317		3414983	Yes	
34405	SYSTEMS METHODS AND DEVICES FOR REDUCED HANDOVER DATA INTERRUPTION	[redacted]	[redacted]	PCT	APP-Pending	US	16/077455		US-2019-0075498-A1	Yes	
34406	RX-TX TIME DIFFERENCE REPORT FOR TDD SYSTEMS AND ASSOCIATED DEVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	168701080		3414934	Yes	
34407	RX-TX TIME DIFFERENCE REPORT FOR TDD SYSTEMS AND ASSOCIATED DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	106103250		201735678	Yes	
34408	DEVICE AND METHOD FOR CQI FEEDBACK TO ENABLE JOINT DL-UL SCHEDULING IN FULL DUPLEX SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/086490		US-2019-0349945-A1	Yes	
34409	DEVICE AND METHOD FOR CQI FEEDBACK TO ENABLE JOINT DL-UL SCHEDULING IN FULL DUPLEX SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	106107046		201810987	Yes	
34410	USER EQUIPMENT (UE) AND METHODS FOR RECEPTION OF PACKETS ON A SPLIT RADIO BEARER	[redacted]	[redacted]	EPT	APP-Pending	EP	169011392		3453131	Yes	
34411	SYSTEMS AND METHODS FOR UPLINK DMRS ENHANCEMENT IN FD-MIMO	[redacted]	[redacted]	PCT	APP-Pending	US	16/067680		US-2019-0020451-A1	Yes	
34412	IN-BAND FULL DUPLEX RELAY TO ENHANCE UPLINK PERFORMANCE IN HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Pending	US	16/094830		US-2019-0123806-A1	Yes	
34413	HYBRID SECTOR-SWEEP-BASED INITIAL ACQUISITION PROCEDURES FOR MMWAVE CELLULAR RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084630?		109075845	Yes	
34414	HYBRID SECTOR-SWEEP-BASED INITIAL ACQUISITION PROCEDURES FOR MMWAVE CELLULAR RADIO ACCESS NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	106107005		201737741	Yes	
34415	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	[redacted]	[redacted]	NP	PAT-Active	US	15/593347	10425050	US-2017-0359040-A1		
34416	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	[redacted]	[redacted]	CNT	APP-Pending	US	16/558887		US 2020-0036349 A1		
34417	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	[redacted]	[redacted]	NP	APP-Pending	CN	201710384230?		107493078		
34418	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	[redacted]	[redacted]	EPA	APP-Pending	EP	161747267		3258597		
34419	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	[redacted]	[redacted]	NP	APP-Pending	IN	201744015791		201744015791		
34420	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	EPT	PAT-Active	EP	168316834	3412057	3412057		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34821	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	EPT	PAT-Active	DE	608316834	88888888	3412057		
34822	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	EPT	PAT-Active	FR	608316834	3412057	3412057		
34823	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	EPT	PAT-Active	GB	608316834	3412057	3412057		
34824	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	EPT	PAT-Active	NL	608316834	3412057	3412057		
34825	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE	[redacted]	[redacted]	NP	APP-Pending	TW	106101665		201729576		
34826	DEVICES AND METHODS FOR RRC CONNECTION RE-ESTABLISHMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	16890120S		3414970	Yes	
34827	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680049222X		107826016	Yes	
34828	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	FPR	APP-Pending	HK	18312238?		1252891	Yes	
34829	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	PCT	APP-Pending	US	15/754476		US-2018-0242389-A1	Yes	
34830	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	NP	APP-Pending	TW	105126645		201724883	Yes	
34831	SCHEDULING REQUEST FOR STANDALONE DEPLOYMENT OF A SYSTEM USING BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	US	16/071639			Yes	
34832	SIGNALING FOR ENHANCED MEASUREMENT GAP FOR SYNCHRONOUS NETWORK	[redacted]	[redacted]	EPT	APP-Pending	EP	167631787		3414933	Yes	
34833	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680014725?		107637120	Yes	
34834	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	FPR	APP-Pending	HK	18308694?		1249331	Yes	
34835	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	EPT	APP-Pending	EP	167185828		3281849	Yes	
34836	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	JP	2017-540886		2018-511200	Yes	
34837	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	KR	10-2017-7025256		10-2017-0136509	Yes	
34838	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	PCT	PAT-Active	US	15/553071	10243704	US-2018-0038598-A1	Yes	
34839	PHYSICAL LAYER PROTOCOL AND SUBFRAME STRUCTURE FOR WEARABLE USER EQUIPMENT DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	16/067665		US-2019-0021053-A1	Yes	
34840	PHYSICAL LAYER PROTOCOL AND SELF-CONTAINED SUBFRAME STRUCTURE FOR 5G/LTE COMPLIANT WEARABLE USER EQUIPMENT DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	106102927		201731327	Yes	
34841	PHYSICAL LAYER PROTOCOL AND SELF-CONTAINED SUBFRAME STRUCTURE FOR 5G/LTE COMPLIANT WEARABLE USER EQUIPMENT DEVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080146S		108553353	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34843	MULTIPLEXING UPLINK CONTROL INFORMATION AND DATA ON PHYSICAL UPLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	CN	201680081874?		108702258	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34845	INTERFERENCE DETECTION DEVICE INTERFERENCE DETECTION APPARATUS INTERFERENCE DETECTION METHOD COMPUTER PROGRAM RECEIVER MOBILE TERMINAL AND BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	15/590073	10097230	US-2017-0359092-A1		
34846	INTERFERENCE DETECTION DEVICE INTERFERENCE DETECTION APPARATUS INTERFERENCE DETECTION METHOD COMPUTER PROGRAM RECEIVER MOBILE TERMINAL AND BASE STATION	[redacted]	[redacted]	EPA	APP-Pending	EP	16173857?		3255800		
34847	INTERLACES ALLOCATION AND INDICATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/072132		US-2019-0068347-A1		
34848	CIRCUIT ARRANGEMENT FOR CLOCK SYNCHRONIZATION	[redacted]	[redacted]	NP	PAT-Active	US	15/690862	10356736	US-2017-0367060-A1		
34849	CIRCUIT ARRANGEMENT FOR CLOCK SYNCHRONIZATION	[redacted]	[redacted]	NP	PAT-Active	DE	102016111297	88888888	102016111297		
34850	SELF-CONTAINED TDD FRAME STRUCTURE AND DL-UL CONFIGURATION IN 5G SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080836?		108604954	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34852	FRAME STRUCTURE FOR UPLINK SCHEDULING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680052291S		108029140	Yes	
34853	FRAME STRUCTURE FOR UPLINK SCHEDULING	[redacted]	[redacted]	FPR	APP-Pending	HK	18313723?		1254712	Yes	
34854	FRAME STRUCTURE FOR UPLINK SCHEDULING	[redacted]	[redacted]	PCT	APP-Pending	US	15/758933		US-2019-0045541-A1	Yes	
34855	COORDINATED BLUETOOTH - WIFI SCHEDULING WITH BLUETOOTH SLOT AVAILABILITY MASK	[redacted]	[redacted]	NP	PAT-Active	US	15/280187	10201004	US-2018-0091929-A1		
34856	COORDINATED BLUETOOTH - WIFI SCHEDULING WITH BLUETOOTH SLOT AVAILABILITY MASK	[redacted]	[redacted]	NP	APP-Pending	CN	201710755787?		107889087		
34857	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	NP	PAT-Active	US	15/611625	10255144	US-2018-0018243-A1		
34858	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	NP	APP-Pending	CN	201710440098S		107834818		
34859	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	EPA	PAT-Active	EP	161799705	3273604	3273604		
34860	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	EPA	PAT-Active	DE	161799705	3273604	3273604		
34861	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	EPA	PAT-Active	FR	161799705	3273604	3273604		
34862	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	EPA	PAT-Active	GB	161799705	3273604	3273604		
34863	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	[redacted]	[redacted]	EPA	PAT-Active	NL	161799705	3273604	3273604		
34864	DEVICE AND METHOD FOR CANCELLING INTERFERENCE CAUSED BY NON-LINEAR DEVICE	[redacted]	[redacted]	NP	APP-Pending	US	15/171641		US-2017-0353286-A1		
34865	COMMUNICATIN DEVICE AND A METHOD FOR LOCALIZATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680085987S		109313252		
34866	COMMUNICATION DEVICE AND A METHOD FOR LOCALIZATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/304148		US-2019-0346554-A1		
34867	CONTROL SIGNALING FOR FIFTH GENERATION CHANNEL STATE INFORMATION REFERENCE SIGNALS (XCSI-RS)	[redacted]	[redacted]	PCT	APP-Pending	US	16/070916		US-2019-0029071-A1	Yes	
34868	PBCH TRANSMISSION INSIDE AND OUTSIDE OF DISCOVERY REFERENCE SIGNAL TRANSMISSION WINDOW TO BES OPERATING IN UNLICENSED FREQUENCY BANDS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079487?		108475858	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34870	FIFTH GENERATION (5G) UPLINK CONTROL INFORMATION (xUCI) REPORT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079505S		108476051	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	

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	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34472	FIFTH GENERATION (5G) UPLINK CONTROL INFORMATION (xUCI) REPORT	[redacted]	[redacted]	NP	APP-Pending	TW	106103395		201731242	Yes	
34473	CHANNEL CODING AND INTERLEAVING FOR CONTROL AND USER DATA IN THE PHYSICAL UPLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	PAT-Active	US	16/072981	10396878	US-2019-0036586-A1	Yes	
34474	CHANNEL CODING AND INTERLEAVING FOR CONTROL AND USER DATA IN THE PHYSICAL UPLINK SHARED CHANNEL	[redacted]	[redacted]	NP	APP-Pending	TW	106101433		201739199	Yes	
34475	TURBO CODING WITH SUPPORT FOR LOW CODING RATES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080152		108809904	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	
34477	ENABLING A SECONDARY CELL IN A MASSIVE MIMO SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/080580		US-2019-0028150-A1	Yes	
34478	ENABLING A SECONDARY CELL IN A MASSIVE MIMO SYSTEM	[redacted]	[redacted]	NP	APP-Pending	TW	106102439		201739189	Yes	
34479	DOWNLINK CONTROL INFORMATION FOR NON-SCHEDULED UPLINK TRANSMISSIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	17757369B		3420659	Yes	
34480	TRANSMISSION DETECTION OF NON-SCHEDULED UPLINK TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201780082501		108604967	Yes	
34481	TRANSMISSION DETECTION OF NON-SCHEDULED UPLINK TRANSMISSIONS	[redacted]	[redacted]	FPR	APP-Pending	HK	191007260			Yes	
34482	UCI CHANNEL CODING ON XPUCCH	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079895X		108809954	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	
34484	PHYSICAL UPLINK CONTROL CHANNEL FORMATS FOR 5G	[redacted]	[redacted]	EPT	APP-Pending	EP	16891859?		3420657	Yes	
34485	ANTENNA	[redacted]	[redacted]	NP	APP-Pending	US	15/138782		US-2018-0006360-A1		
34486	ANTENNA	[redacted]	[redacted]	NP	APP-Pending	CN	201710385083X		107565207		
34487	ANTENNA	[redacted]	[redacted]	EPA	APP-Pending	EP	17174854X		3267529		
34488	ANTENNA	[redacted]	[redacted]	NP	APP-Pending	IN	201748016594		201748016594		
34489	FREQUENCY BASED BIAS VOLTAGE SCALING FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	US	15/196959		US-2017-0373694-A1		
34490	FREQUENCY BASED BIAS VOLTAGE SCALING FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	CN	201710364574Q		107587085		
34491	FREQUENCY BASED BIAS VOLTAGE SCALING FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	EPA	APP-Pending	EP	17174107?		3264696		
34492	DELTA SIGMA ANALOG-TO-DIGITAL CONVERTER RADIO FRONT-END RADIO RECEIVER MOBILE TERMINAL AND BASE STATION	[redacted]	[redacted]	EPA	APP-Pending	EP	161918065		3301813		
34493	TRANSMITTING AND RECEIVING RADIO SIGNALS WITH TUNABLE ANTENNAS TUNED BASED ON THROUGHPUT PERFORMANCE	[redacted]	[redacted]	NP	APP-Pending	US	15/195859		US-2017-0373398-A1		
34494	TRANSMITTING AND RECEIVING RADIO SIGNALS WITH TUNABLE ANTENNAS TUNED BASED ON THROUGHPUT PERFORMANCE	[redacted]	[redacted]	PCT	APP-Pending	CN	201780036461		109213929		
34495	TRANSMITTING AND RECEIVING RADIO SIGNALS WITH TUNABLE ANTENNAS TUNED BASED ON THROUGHPUT PERFORMANCE	[redacted]	[redacted]	PCT	APP-Pending	DE	112017003243Z		112017003243		
34496	DEVICE AND METHOD FOR SYNCHRONOUS BEAM SWITCHING	[redacted]	[redacted]	PCT	APP-Pending	US	16/079805		US-2019-0052331-A1	Yes	
34497	DEVICE AND METHOD FOR SYNCHRONOUS BEAM SWITCHING	[redacted]	[redacted]	NP	APP-Pending	TW	106101303		201739192	Yes	
34498	DEVICE AND METHOD OF USING BRRS CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/079034		US-2019-0044601-A1	Yes	
34499	SYSTEM AND METHOD FOR BEAM INFORMATION AND CSI REPORT	[redacted]	[redacted]	PCT	APP-Pending	US	16/076666		US-2019-0053220-A1	Yes	
34500	SYSTEM AND METHOD FOR CHANNEL QUALITY REPORTING	[redacted]	[redacted]	PCT	APP-Pending	US	16/077018		US-2019-0036584-A1	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34502	POWER CONTROL FOR LINKS IN BEAMFORMING SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080231S		108605298	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	
34504	POWER CONTROL FOR LINKS IN BEAMFORMING SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	106101305		201739295	Yes	
34505	SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	PAT-Active	US	15/056965	9775045	US-2017-0079059-A1		
34506	SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Active	US	15/670923	10057777	US-2017-0338667-A1		
34507	SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	NP	APP-Pending	TW	106101821		201733378		
34508	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Pending	US	16/083141		US 2019-0387504 A1	Yes	
34509	TRIGGER FOR ATTACH-TAU FOR PENDING IMS CALL REQUEST IN RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	APP-Pending	EP	168974459		3437392		
34510	TRIGGER FOR ATTACH-TAU FOR PENDING IMS CALL REQUEST IN RADIO ACCESS NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	106105472		201742415		
34511	TRANSMISSION CIRCUIT	[redacted]	[redacted]	NP	PAT-Active	US	11/041360	7383027	US-2006-0164160-A1		
34512	TRANSMISSION CIRCUIT	[redacted]	[redacted]	CIP	PAT-Active	US	12/006062	7605226	US-2008-0139138-A1		
34513	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPT	PAT-Active	DE	9194093	########	1214790		
34514	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	ETD	PAT-Active	DE	51079614	########	1619790		
34515	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPT	PAT-Active	EP	9194093	1214790	1214790		
34516	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	ETD	PAT-Active	EP	51079614	1619790	1619790		
34517	PULSE SHAPING FILTERS FOR SINGLE CARRIER WAVEFORMS	[redacted]	[redacted]	EPT	APP-Pending	EP	167457408		3476085		
34518	UPLINK POWER CONTROL FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/075454		US 2019-0373559 A1	Yes	
34519	CHIP-ENHANCED BATTERY	[redacted]	[redacted]	PCT	APP-Pending	US	16/327359		US-2019-0200199-A1		
34520	RADIO LINK FAILURE HANDLING IN HIGH-FREQUENCY BAND NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	US	16/078752		US-2019-0053315-A1	Yes	
34521	DISCONTINUOUS DOWNLINK TRANSMISSIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Pending	EP	167469288		3480747	Yes	
34522	DISCONTINUOUS DOWNLINK TRANSMISSIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	106103848		201742489	Yes	
34523	TRANSMISSION SCHEME AND INTER-CELL INTERFERENCE MITIGATION FOR FIFTH GENERATION (5G) SYSTEM INFORMATION BLOCK (xSIB)	[redacted]	[redacted]	PCT	APP-Pending	CN	201680081525B		108781147	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	
34525	TRANSMISSION SCHEME AND INTER-CELL INTERFERENCE MITIGATION FOR FIFTH GENERATION (5G) SYSTEM INFORMATION BLOCK (xSIB)	[redacted]	[redacted]	NP	APP-Pending	TW	106103798		201733326	Yes	
34526	DOWNLINK CONTROL INFORMATION (DCI) CONFIGURATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080643X		109314618	Yes	
	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	
34528	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Closed	US	09/362880	6198347			
34529	DRIVING CIRCUITS OFR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	PCT	PAT-Active	CN	81205795	ZL00812057 9	1371546		
34530	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	EPT	PAT-Active	DE	9523077	########	1201025		
34531	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	EPT	PAT-Active	EP	9523077	1201025	1201025		
34532	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	PCT	PAT-Active	KR	10-2002-7001157	10-0814327	10-2002-0059347		
34533	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	CIP	PAT-Closed	US	09/637269	6636112			
34534	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Active	US	10/688444	6816016	US-2004-0080364-A1		
34535	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	NP	PAT-Active	US	09/564548	7265618			
34536	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	PAT-Active	CN	81205787	ZL00812057 87	1371545		
34537	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Closed	US	10/094104	7069035	US-2002-0090920-A1		
34538	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	NP	PAT-Active	TW	89102103	I275643			

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34538	METHOD AND SYSTEM OF AMPLITUDE MODULATION USING DUAL/SPLIT CHANNEL UNEQUAL AMPLIFICATION	[redacted]	[redacted]	NP	PAT-Active	US	09/661167	6751265			
34540	SCHEDULING ACKNOWLEDGEMENTS TO RECEIVED SUB-FRAMES IN A MULTI-SIM USER EQUIPMENT USING A SHARED TRANSMIT CHAIN WHEN RECEIVING DATA CONTINUOUSLY ON EACH SIM	[redacted]	[redacted]	NP	APP-Pending	IN	201641033553		201641033553		
34541	SCHEDULING ACKNOWLEDGEMENTS TO RECEIVED SUB-FRAMES IN A MULTI-SIM USER EQUIPMENT USING A SHARED TRANSMIT CHAIN WHEN RECEIVING DATA CONTINUOUSLY ON EACH SIM	[redacted]	[redacted]	NP	APP-Pending	CN	201710730958X		107888363		
34542	SCHEDULING ACKNOWLEDGEMENTS TO RECEIVED SUB-FRAMES IN A MULTI-SIM USER EQUIPMENT USING A SHARED TRANSMIT CHAIN WHEN RECEIVING DATA CONTINUOUSLY ON EACH SIM	[redacted]	[redacted]	NP	APP-Pending	US	15/688912		US-2018-0097585-A1		
34543	MOBILE COMMUNICATION DEVICE AND METHOD FOR SELECTING A BEAM DIRECTION FOR AN ANTENNA	[redacted]	[redacted]	EPA	APP-Pending	EP	3618283S7		3293890		
34544	POWER ESTIMATION SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	15/274394	10123221	US-2018-0091984-A1		
34545	WAKE UP RADIO DEVICE CIRCUIT CONFIGURATION AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	15/196070	9967820	US-2018-0007629-A1		
34546	WAKE UP RADIO DEVICE CIRCUIT CONFIGURATION AND METHOD	[redacted]	[redacted]	EPA	PAT-Active	EP	1717438867	3264674	3264674		
34547	WAKE UP RADIO DEVICE CIRCUIT CONFIGURATION AND METHOD	[redacted]	[redacted]	EPA	PAT-Active	DE	1717438867	3264674	3264674		
34548	WAKE UP RADIO DEVICE CIRCUIT CONFIGURATION AND METHOD	[redacted]	[redacted]	EPA	PAT-Active	FR	1717438867	3264674	3264674		
34549	WAKE UP RADIO DEVICE CIRCUIT CONFIGURATION AND METHOD	[redacted]	[redacted]	EPA	PAT-Active	GB	1717438867	3264674	3264674		
34550	COMMUNICATION DEVICE AND METHOD FOR SELECTING A BEAM DIRECTION	[redacted]	[redacted]	PCT	APP-Pending	US	16/305916		US 2020-0091988 A1		
34551	METHODS AND DEVICES FOR USER DETECTION IN SPECTRUM SHARING	[redacted]	[redacted]	NP	APP-Pending	US	15/190221		US-2017-0374557-A1		
34552	METHODS AND DEVICES FOR USER DETECTION IN SPECTRUM SHARING	[redacted]	[redacted]	NP	APP-Pending	CN	201710337400X		107548071		
34553	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	15/200159	9948351	US-2018-0006681-A1		
34554	A SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	CN	201710400344S		107567007		
34555	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	1717798205	3264625	3264625		
34556	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	1717798205	3264625	3264625		
34557	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	1717798205	3264625	3264625		
34558	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	1717798205	3264625	3264625		
34559	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	PAT-Active	NL	1717798205	3264625	3264625		
34560	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Pending	IN	201744018979		201744018979		
34561	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	NP	PAT-Active	US	15/183866	9820272			
34562	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	NP	APP-Pending	CN	201710345505X		107528662		
34563	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	EPA	PAT-Active	EP	1717062455	3258620	3258620		
34564	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	EPA	PAT-Active	DE	1717062455	3258620	3258620		
34565	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	EPA	PAT-Active	FR	1717062455	3258620	3258620		
34566	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	EPA	PAT-Active	GB	1717062455	3258620	3258620		
34567	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	[redacted]	[redacted]	EPA	PAT-Active	NL	1717062455	3258620	3258620		
34568	BIT-ERROR RATE FALSE POSITIVE DETECTION SYSTEM AND METHOD	[redacted]	[redacted]	NP	APP-Pending	CN	201710450861S		107566082		
34569	APPARATUS SYSTEM AND METHOD OF INTERNET CONNECTIVITY VIA A RELAY STATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/309190		US 2020-0322486 A1		
34570	COMMUNICATION DEVICE AND METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	APP-Pending	EP	3617683S3		3264831		
34571	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	CN	201780053058S		109314924		
34572	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Pending	US	16/305067		US-2019-0357176-A1		
34573	APPARATUS ADAPTED FOR MAINTAINING RECEIVING DATA QUALITY AND METHOD FOR RECEIVING DATA	[redacted]	[redacted]	NP	APP-Pending	US	15/607556		US-2018-0007113-A1		
34574	APPARATUS ADAPTED FOR MAINTAINING RECEIVING DATA QUALITY AND METHOD FOR RECEIVING DATA	[redacted]	[redacted]	NP	APP-Pending	CN	201710447362S		107566330		
34575	APPARATUS ADAPTED FOR MAINTAINING RECEIVING DATA QUALITY AND METHOD FOR RECEIVING DATA	[redacted]	[redacted]	EPA	APP-Pending	EP	3617713S5		3264779		
34576	APPARATUS ADAPTED FOR MAINTAINING RECEIVING DATA QUALITY AND METHOD FOR RECEIVING DATA	[redacted]	[redacted]	NP	APP-Pending	IN	201744018582		201744018582		
34577	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	PAT-Active	US	15/187883	9716558			
34578	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	APP-Pending	EP	1717221S4		3261369		
34579	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	NP	APP-Pending	US	15/191564		US-2017-0374651-A1		
34580	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	EPA	PAT-Active	EP	1717260031	3261279	3261279		
34581	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	EPA	PAT-Active	DE	1717260031	3261279	3261279		
34582	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	EPA	PAT-Active	FR	1717260031	3261279	3261279		
34583	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	EPA	PAT-Active	GB	1717260031	3261279	3261279		
34584	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM A NETWORK	[redacted]	[redacted]	EPA	PAT-Active	NL	1717260031	3261279	3261279		
34585	CHANNEL ESTIMATION AND COMPENSATION IN HIGH SPEED SCENARIOS	[redacted]	[redacted]	NP	APP-Pending	US	15/170712		US-2017-0359175-A1		
34586	METHOD OF POSITIONING FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201580082590S		108702726	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
34588	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	15/037870	7058385	US-2005-0281360-A1		
34589	METHODS AND APPARATUS FOR CONDITIONING COMMUNICATIONS SIGNALS BASED ON DETECTION OF HIGH-FREQUENCY EVENTS IN POLAR DOMAIN	[redacted]	[redacted]	CIP	PAT-Active	US	12/395983	8331490	US-2009-0257526-A1		
34590	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	PCT	PAT-Active	CN	2006800424727	ZL2006800424727	101310435		
34591	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	EPT	PAT-Active	DE	60331040	8888888	1949531		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34592	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	EPT	PAT-Active	EP	68331040	1949531	1949531		
34593	HYBRID POLAR MODULATOR DIFFERENTIAL PHASE CARTESIAN FEEDBACK CORRECTION CIRCUIT FOR POWER AMPLIFIER LINEARIZATION	[redacted]	[redacted]	NP	PAT-Active	US	05/885811	7469004	US-2002-0196864-A1		
34594	SELECTIVE ENVELOPE MODULATION ENABLING REDUCED CURRENT CONSUMPTION	[redacted]	[redacted]	NP	PAT-Active	US	12/079353	7688157	US-2008-0246550-A1		
34595	VSWR NORMALIZING ENVELOPE MODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	11/821301	8331882			
34596	REAL TIME VCO GAIN NON LINEARITY CALIBRATION	[redacted]	[redacted]	NP	PAT-Active	US	11/704881	7557671	US-2008-0191811-A1		
34597	FULL DUPLEX SUPPORT IN FIFTH GENERATION (5G) SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/079854		US-2019-0059099-A1	Yes	
34598	FULL DUPLEX SUPPORT IN FIFTH GENERATION (5G) SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	106103959		201735577	Yes	
34599	HIGH-EFFICIENCY ENVELOPE TRACKING SYSTEMS AND METHODS FOR RADIO FREQUENCY POWER AMPLIFIERS	[redacted]	[redacted]	NP	PAT-Active	US	12/022143	7849318	US-2008-0191826-A1		
34600	ADAPTIVE IMPEDANCE CONVERTER ADAPTIVELY CONTROLS LOAD IMPEDANCE	[redacted]	[redacted]	NP	PAT-Active	US	12/209881	8140030	US-2010-0069025-A1		
34601	MULTI-MODE TRANSMITTER HAVING ADAPTIVE OPERATING MODE CONTROL	[redacted]	[redacted]	NP	PAT-Active	US	12/209391	8095083	US-2010-0056068-A1		
34602	METHODS AND APPARATUS FOR REDUCING AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	NP	PAT-Active	US	12/882913	8385464	US-2010-0316164-A1		
34603	TRANSMITTER UTILIZING A DUTY CYCLE ENVELOPE REDUCTION AND RESTORATION MODULATOR	[redacted]	[redacted]	NP	PAT-Active	US	12/508464	8131234	US-2011-0018640-A1		
34604	METHODS AND APPARATUS FOR REDUCING THE AVERAGE-TO-MINIMUM MAGNITUDE RATIO OF COMMUNICATIONS SIGNALS IN COMMUNICATIONS TRANSMITTERS	[redacted]	[redacted]	NP	PAT-Active	US	12/551929	8363757	US-2011-0051836-A1		
34605	METHODS AND APPARATUS FOR REDUCING THE AVERAGE-TO-MINIMUM MAGNITUDE RATIO OF COMMUNICATIONS SIGNALS IN COMMUNICATIONS TRANSMITTERS	[redacted]	[redacted]	CIP	PAT-Active	US	12/950847	8483312	US-2011-0116535-A1		
34606	FRAME STRUCTURES FOR BEAM SWITCHING AND REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	US	16/084505		US-2019-0089446-A1	Yes	
34607	FRAME STRUCTURES FOR BEAM SWITCHING AND REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	NP	APP-Pending	TW	106106822		201737749	Yes	
34608	CO-EXISTENCE OF GRANTLESS UPLINK AND SCHEDULED TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201780012867O		108781149	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34610	SYSTEMS AND METHODS FOR CENTRALIZED AND DECENTRALIZED COMMUNICATION MODES FOR V2X SERVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	167514173		3437366		
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
34615	SYSTEMS AND METHODS FOR CENTRALIZED AND DECENTRALIZED COMMUNICATION MODES FOR V2X SERVICES	[redacted]	[redacted]	NP	APP-Pending	TW	106104107		201735671		
34616	Method and system to perform performance measurements job operations	[redacted]	[redacted]	EPT	APP-Pending	EP	167792308		3433735		
34617	METHOD AND SYSTEM TO PERFORM PERFORMANCE MEASUREMENTS JOB OPERATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	106102914		201735675		
34618	SYSTEMS METHODS AND DEVICES FOR UPLINK BEARER SPLIT USING WIRELESS LOCAL AREA NETWORK AGGREGATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/067685		US-2019-0021026-A1	Yes	
34619	EXTENDED SYNCHRONIZATION SIGNAL FOR SYMBOL INDEX	[redacted]	[redacted]	PCT	APP-Pending	CN	201680083667X		109075863	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34621	CQI REPORTING FOR FLEXIBLE TRANSMISSION MODE SWITCHING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680085294X		109076371	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34623	DATA TRANSMISSION USING AN ADAPTIVE TRANSMISSION TIME INTERVAL STRUCTURE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Pending	EP	167602747		3433855		
34624	SIXTY GIGAHERTZ BAND SUPPORT IN CELLULAR AND WIRELESS LOCAL AREA NETWORK AGGREGATION	[redacted]	[redacted]	EPT	APP-Pending	EP	167492440		3437363	Yes	
34625	SIXTY GIGAHERTZ BAND SUPPORT IN CELLULAR AND WIRELESS LOCAL AREA NETWORK AGGREGATION	[redacted]	[redacted]	NP	APP-Pending	TW	106105621		201742478	Yes	
34626	QUALITY OF SERVICE HANDLING FOR UPLINK TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079398X		108702647		
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34628	UPLINK MODULATION CODING SCHEME AND CONFIGURATION	[redacted]	[redacted]	EPT	APP-Pending	EP	168292118		3437221		
34629	SYSTEMS METHODS AND DEVICES FOR TRANSMISSION OF NETWORK INFORMATION IN THE PHYSICAL BROADCAST CHANNEL (PBCH)	[redacted]	[redacted]	PCT	APP-Pending	CN	201880003834617		108781399	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34631	AUTONOMOUS RESOURCE SELECTION FOR VEHICLE-TO-VEHICLE SIDELINK COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Pending	US	16/080659		US-2019-0059071-A1	Yes	
34632	AUTONOMOUS RESOURCE SELECTION FOR VEHICLE-TO-VEHICLE SIDELINK COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	TW	106106233		201742474	Yes	
34633	BLIND DECODING REDUCTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680084221S		108886796	Yes	
	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34635	DUPLEXER STRUCTURE FOR COUPLING A TRANSMITTER AND A RECEIVER TO A COMMON ANTENNA	[redacted]	[redacted]	NP	PAT-Active	US	09/711344	6721544			
34636	ELECTRICALLY TUNED INTEGRATED AMPLIFIER FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	PAT-Active	US	09/711332	6509795			
34637	ELECTRICALLY TUNED INTEGRATED AMPLIFIER FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	PAT-Active	US	10/277015	6663904	US-2003-0030495-A1		
34638	USER-PLANE PATH SELECTION FOR THE EDGE SERVICE	[redacted]	[redacted]	PCT	APP-Pending	US	16/084674		US-2019-0075046-A1	Yes	
34639	NETWORK ASSISTED MOBILITY STATUS INDICATION AND TRACKING OF HIGH-SPEED MOBILE SCENARIOS	[redacted]	[redacted]	EPT	APP-Pending	EP	167819598		3437398	Yes	
34640	CSI FEEDBACK FOR OPEN LOOP FD-MIMO TRANSMISSION	[redacted]	[redacted]	PCT	APP-Pending	US	16/073298		US-2019-0036574-A1		
34641	STAGGERING UNATTENDED TRAFFIC IN LTE AFTER BARRING	[redacted]	[redacted]	EPT	APP-Pending	EP	168974467		3437381	Yes	
34642	STAGGERING UNATTENDED TRAFFIC IN LTE AFTER BARRING	[redacted]	[redacted]	NP	APP-Pending	TW	106106235		201742481	Yes	
34643	DEVICES AND METHODS FOR MEC V2X	[redacted]	[redacted]	EPT	APP-Pending	EP	168981825		3480870	Yes	
34644	DEVICES AND METHODS FOR MEC V2X	[redacted]	[redacted]	NP	APP-Pending	TW	106106543		201742476	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34645	USER EQUIPMENT (UE) SUPPORT MODE AND ID SUPPORT	[redacted]	[redacted]	PCT	APP-Pending	CN	201680029426		108781099	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34647	USER EQUIPMENT (UE) SUPPORT MODE AND ID SUPPORT	[redacted]	[redacted]	NP	APP-Pending	TW	106105142		201737672	Yes	
34648	DUAL BEAM OPERATION FOR MOBILITY	[redacted]	[redacted]	PCT	APP-Pending	US	16/073303		US-2018-0352317-A1	Yes	
34649	DUAL BEAM OPERATION FOR MOBILITY	[redacted]	[redacted]	NP	APP-Pending	TW	106105272		201737654	Yes	
34650	DEVICES AND METHODS FOR RESUME FAILURE FALLBACK	[redacted]	[redacted]	EPT	APP-Pending	EP	168974475		3437429	Yes	
34651	SUPPORTING OPTIMIZED RESUME FAILURE FALLBACK MECHANISM	[redacted]	[redacted]	NP	APP-Pending	TW	106106338		201801556	Yes	
34652	PAGING DESIGN FOR STAND-ALONE BEAMFORMED SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	CN	201780015180		108886738	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34654	FLEXIBLE FRAME STRUCTURE SIGNALING FOR RADIO ACCESS NETWORKS OPERATING IN THE UNLICESNSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Pending	CN	201680079262?		108476498	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34656	REFERENCE SIGNAL PATH FOR CLOCK GENERATION WITH AN INJECTION LOCKED MULTIPLIER (ILM)	[redacted]	[redacted]	NP	PAT-Active	US	15/171373	10418942	US-2017-0353158-A1		
34657	REFERENCE SIGNAL PATH FOR CLOCK GENERATION WITH AN INJECTION LOCKED MULTIPLIER (ILM)	[redacted]	[redacted]	NP	APP-Pending	CN	201710303787?		107465825		
34658	REFERENCE PATH CIRCUIT FOR GENERATION OF CLOCK SIGNALS WITH AN INJECTION LOCKED MULTIPLIER (ILM)	[redacted]	[redacted]	EPA	APP-Pending	EP	171689029		3252951		
34659	Performance Indicator for Phase Locked Loops	[redacted]	[redacted]	NP	PAT-Active	US	15/198115	9832011			
34660	PERFORMANCE INDICATOR FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	CN	201710412739?		107555960		
34661	PERFORMANCE INDICATOR FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	EPA	APP-Pending	EP	171755978		3264606		
34662	PERFORMANCE INDICATOR FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	NP	APP-Pending	IN	201744018586		201744018586		
34663	DIGITAL-CENTRIC FULL-DUPLEX ARCHITECTURE	[redacted]	[redacted]	NP	APP-Pending	US	15/197528		US-2018-0006795-A1		
34664	DIGITAL-CENTRIC FULL-DUPLEX ARCHITECTURE	[redacted]	[redacted]	EPA	APP-Pending	EP	171735839		3285404		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]					
34669	DIGITAL-CENTRIC FULL-DUPLEX ARCHITECTURE	[redacted]	[redacted]	NP	APP-Pending	IN	201748016588		201744016588		
34670	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	NP	APP-Pending	US	15/178213		US-2017-0359136-A1		
34671	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	NP	APP-Pending	CN	201710325595?		107483157		
34672	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	EPA	PAT-Active	EP	171697204	3255801	3255801		
34673	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	EPA	PAT-Active	DE	171697204	3255801	3255801		
34674	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	EPA	PAT-Active	FR	171697204	3255801	3255801		
34675	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	EPA	PAT-Active	GB	171697204	3255801	3255801		
34676	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	[redacted]	[redacted]	EPA	PAT-Active	NL	171697204	3255801	3255801		
34677	METHODS AND TRANSCEIVERS FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	EPA	APP-Pending	EP	161775911		3264620		
34678	METHODS AND TRANSCEIVERS FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	CN	201780034355?		109314681		
34679	METHODS AND TRANSCEIVERS FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Pending	US	16/095761				
34680	DIGITAL TIME CONVERTER SYSTEMS AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	15/139217	9641182			
34681	DIGITAL TIME CONVERTER SYSTEMS AND METHODS	[redacted]	[redacted]	CNT	PAT-Active	US	15/583063	10177774	US-2018-0006658-A1		
34682	DIGITAL TIME CONVERTER SYSTEMS AND METHODS	[redacted]	[redacted]	NP	APP-Pending	CN	201710447746?		107561917		
34683	DIGITAL TIME CONVERTER SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	APP-Pending	EP	171748251		3264599		
34684	DIGITAL TIME CONVERTER SYSTEMS AND METHODS	[redacted]	[redacted]	NP	APP-Pending	IN	201744018593		201744018593		
34685	DPLL WITH ADJUSTABLE DELAY IN INTEGER OPERATION MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/069584		WO2018/125232		
34686	DPLL WITH ADJUSTABLE DELAY IN INTEGER OPERATION MODE	[redacted]	[redacted]	PCT	APP-Pending	US	16/465515		20200067513		
34687	HARMONIC SUPPRESSING LOCAL OSCILLATOR SIGNAL GENERATION	[redacted]	[redacted]	NP	PAT-Active	US	15/188267	9935722	US-2017-0366280-A1		
34688	HARMONIC SUPPRESSING LOCAL OSCILLATOR SIGNAL GENERATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201780030844?		109155677		
34689	HARMONIC SUPPRESSING LOCAL OSCILLATOR SIGNAL GENERATION	[redacted]	[redacted]	EPT	APP-Pending	EP	177302924		3472949		
34690	FREQUENCY DIFFERENCE DETERMINATION	[redacted]	[redacted]	NP	PAT-Active	US	15/295073	9722714			
34691	EVOLVED NODE-B (ENB) RADIO ACCESS NETWORK (RAN) CENTRAL UNIT (RCU) AND METHODS FOR RADIO RESOURCE CONTROL (RRC)	[redacted]	[redacted]	PCT	APP-Pending	US	16/088235		US 2020-0137793 A1	Yes	
34692	EVOLVED NODE-B (ENB) RADIO ACCESS NETWORK (RAN) CENTRAL UNIT (RCU) AND METHODS FOR RADIO RESOURCE CONTROL (RRC)	[redacted]	[redacted]	NP	APP-Pending	TW	106107251		201811086	Yes	
34693	VERY FAST JOINT BASE STATION (BS) AND USER EQUIPMENT (UE) BEAM ADAPTATION IN MILLIMETER WAVE (MMWAVE) CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Pending	CN	201680080866?		109155658	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34695	MULTI-CONNECTIVITY SUPPORT AND FAST CELL SWITCHING FOR MMWAVE CELLULAR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Pending	CN	201880086744?		109314901	Yes	
34696	DOWNLINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK FOR NARROWBAND INTERNET OF THINGS DEVICES	[redacted]	[redacted]	EPT	APP-Pending	EP	167850108		3400667		
34697	DOWNLINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK FOR NARROWBAND INTERNET OF THINGS DEVICES	[redacted]	[redacted]	PCT	APP-Pending	US	16/069916		US-2018-0367278-A1		
34698	DOWNLINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK FOR NARROWBAND INTERNET OF THINGS DEVICES	[redacted]	[redacted]	NP	APP-Pending	TW	105138903		201728113		
34699	MULTIPLEXING TRANSMISSION TIME INTERVALS (TTIS) WITH PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) PUNCTURING DETECTION	[redacted]	[redacted]	PCT	APP-Pending	US	15/765778		US-2018-0288745-A1	Yes	
34700	MULTIPLEXING TRANSMISSION TIME INTERVALS (TTIS) WITH PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) PUNCTURING DETECTION	[redacted]	[redacted]	NP	APP-Pending	TW	105138862		201728204	Yes	
34701	LWIP ENHANCEMENTS FOR RELIABLE DRB SWITCHING	[redacted]	[redacted]	PCT	APP-Pending	US	16/086141		US 2019-0305218 A1		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34703	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	PAT-Active	EP	161917752	3301818	3301818		
34704	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	PAT-Active	DE	161917752	3301818	3301818		
34705	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	PAT-Active	FR	161917752	3301818	3301818		
34706	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	PAT-Active	GB	161917752	3301818	3301818		
34707	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	PAT-Active	NL	161917752	3301818	3301818		
34708	COMMUNICATION NETWORK COMPONENT AND METHOD FOR REQUESTING CHANNEL INFORMATION	[redacted]	[redacted]	EPA	APP-Pending	EP	161911003		3301826		

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z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34708	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	PAT-Active	US	15/584103	10143078	US-2017-0353939-A1		
34710	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	APP-Pending	CN	201710300876X		107454585		
34711	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPA	PAT-Active	EP	163723937	3253172	3253172		
34712	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPA	PAT-Active	DE	163723937	3253172	3253172		
34713	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPA	PAT-Active	FR	163723937	3253172	3253172		
34714	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPA	PAT-Active	GB	163723937	3253172	3253172		
34715	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPA	PAT-Active	NL	163723937	3253172	3253172		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34717	METHODS AND DEVICES FOR SELF-INTERFERENCE CANCELATION	[redacted]	[redacted]	NP	PAT-Active	US	15/214531	10193683	US-2018-0026775-A1		
34718	METHODS AND DEVICES FOR SELF-INTERFERENCE CANCELATION	[redacted]	[redacted]	NP	APP-Pending	CN	201710489170X7		107465316		
34719	METHODS AND DEVICES FOR SELF-INTERFERENCE CANCELATION	[redacted]	[redacted]	EPA	APP-Pending	EP	171772678		3273606		
34720	COMMUNICATION DEVICE AND A METHOD FOR HYBRID BEAMFORMING	[redacted]	[redacted]	PCT	APP-Pending	US	16/323777		US 2020-0195325 A1		
34721	COMMUNICATION DEVICE AND METHOD FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	NP	APP-Pending	US	15/252242		US-2018-0063817-A1		
34722	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Active	US	15/385096	10349255	US-2018-0176887-A1		
34723	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	NP	APP-Pending	CN	201711169174		108206991		
34724	PUSHING BACK PACKET NOT ACKNOWLEDGED BY BASE STATION	[redacted]	[redacted]	NP	PAT-Active	US	15/390211	10021586	US-2018-0184322-A1		
34725	PUSHING BACK PACKET NOT ACKNOWLEDGED BY BASE STATION	[redacted]	[redacted]	NP	APP-Pending	CN	201711184221X		108243443		
34726	PROVIDING CONCURRENT CONNECTIONS TO A SUBSCRIBER USING A MOBILE DEVICE HAVING MULTIPLE TRANSCEIVERS	[redacted]	[redacted]	NP	APP-Pending	IN	201641042588		201641042589		
34727	PROVIDING CONCURRENT CONNECTIONS TO A SUBSCRIBER USING A MOBILE DEVICE HAVING MULTIPLE TRANSCEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/065667		WO2018/111788		
34728	SYSTEMS METHODS AND DEVICES FOR OPTIMIZED UPLINK GRANT TRANSMISSION TO ENABLE MULTI-SUBFRAME SCHEDULING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680083916X		108886805	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34730	BEAM MANAGEMENT FOR DUAL TRANSMISSION POINT HYBRID BEAMFORMING SYSTEMS IN 5G	[redacted]	[redacted]	PCT	APP-Pending	US	16/081787		US-2019-0089435-A1	Yes	
34731	BEAM MANAGEMENT FOR DUAL TRANSMISSION POINT HYBRID BEAMFORMING SYSTEMS IN 5G	[redacted]	[redacted]	NP	APP-Pending	TW	106104652		201735560	Yes	
34732	METHOD AND APPARATUS FOR DECODING DATA	[redacted]	[redacted]	NP	PAT-Active	US	10/002605	9628509	US-2003-0106007-A1		
34733	INCREASE OF SPECTRAL CAPACITY OF EMBMS-CELL WHEN DEPLOYED AS A SUPPLEMENTARY DOWNLINK CARRIER	[redacted]	[redacted]	PCT	APP-Pending	CN	201780023495X		109079313	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34735	INCREASE OF SPECTRAL CAPACITY OF EMBMS-CELL WHEN DEPLOYED AS A SUPPLEMENTARY DOWNLINK CARRIER	[redacted]	[redacted]	EPT	APP-Pending	EP	177254621		3456070	Yes	
34736	INCREASE OF SPECTRAL CAPACITY OF EMBMS-CELL WHEN DEPLOYED AS A SUPPLEMENTARY DOWNLINK CARRIER	[redacted]	[redacted]	PCT	APP-Pending	US	16/093242		US-2019-0090103-A1	Yes	
34737	SUBFRAME STRUCTURE FOR COMMUNICATION IN UNDERLAY INFRASTRUCTURE-LESS NETWORKS	[redacted]	[redacted]	PCT	APP-Pending	DE	112016006813		112016006812	Yes	
34738	SUBFRAME STRUCTURE FOR COMMUNICATION IN UNDERLAY INFRASTRUCTURE-LESS NETWORKS	[redacted]	[redacted]	NP	APP-Pending	TW	106109204		201810078	Yes	
34739	CELLULAR IOT CONTROL AND USER PLANE SWITCHING	[redacted]	[redacted]	PCT	APP-Pending	US	16/079397		US-2019-0045561-A1	Yes	
34740	CELLULAR IOT CONTROL AND USER PLANE SWITCHING	[redacted]	[redacted]	NP	APP-Pending	TW	106109205		201810993	Yes	
34741	SAS PAL GAA co-channel interference mitigation	[redacted]	[redacted]	NP	APP-Pending	US	15/499953		US-2017-0318470-A1		
34742	CSI (CHANNEL STATE INFORMATION)-RS (REFERENCE SIGNAL) TRANSMISSION WITH CSI-RS IC (INTERFERENCE CANCELLATION) RECEIVER	[redacted]	[redacted]	PCT	APP-Pending	CN	201780022359X		109075825	Yes	
34743	APPARATUSES FOR EVOLVED NODE BS CONFIGURED TO COMMUNICATE USING ROBUST PUNCTURING-BASED MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	CN	201680056864X		108181312	Yes	
34744	APPARATUSES FOR EVOLVED NODE BS CONFIGURED TO COMMUNICATE USING ROBUST PUNCTURING-BASED MULTIPLEXING	[redacted]	[redacted]	EPR	APP-Pending	HK	18115183X		1258112	Yes	
34745	APPARATUSES FOR EVOLVED NODE BS CONFIGURED TO COMMUNICATE USING ROBUST PUNCTURING-BASED MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Pending	DE	112016004931S		112016004931	Yes	
34746	SYSTEMS METHODS AND DEVICES FOR UPLINK CONTROL INFORMATION ENHANCEMENT	[redacted]	[redacted]	EPT	APP-Pending	EP	167855348		3449590	Yes	
34747	METHODS FOR MULTI-CARRIER OPERATION WITH MULTIPLE ANCHOR CARRIERS IN NARROW-BAND INTERNET-OF-THINGS	[redacted]	[redacted]	EPT	APP-Pending	EP	177235800		3453207		
34748	RACH-LESS HANDOVER TO SMALL CELL	[redacted]	[redacted]	PCT	APP-Pending	DE	112017002452X		112017002452		
34749	ANTENNA PANEL SWITCHING AND BEAM INDICATION	[redacted]	[redacted]	PCT	APP-Pending	US	16/098752		US-2019-0132851-A1	Yes	
34750	DISCRETE LEVELS ENVELOPE TRACKING	[redacted]	[redacted]	NP	PAT-Active	US	15/371768	9991913	US-2018-0159566-A1		
34751	DISCRETE LEVELS ENVELOPE TRACKING	[redacted]	[redacted]	EPA	APP-Pending	EP	172007248		3394028		
34752	DETERMINATION CIRCUIT AND APPARATUS MOBILE TRANSCEIVER METHOD FOR DETERMINING COMPUTER PROGRAM AND STORAGE TO DETERMINE A SPATIAL TRANSMISSION MODE	[redacted]	[redacted]	NP	APP-Pending	DE	102016112378X		102016112128		
34753	DETERMINATION CIRCUIT AND APPARATUS MOBILE TRANSCEIVER COMMUNICATION DEVICE METHOD FOR DETERMINING COMPUTER PROGRAM AND STORAGE TO DETERMINE A SPATIAL TRANSMISSION MODE	[redacted]	[redacted]	PCT	APP-Pending	CN	201780034502X		109314548		
34754	DETERMINATION CIRCUIT AND APPARATUS MOBILE TRANSCEIVER COMMUNICATION DEVICE METHOD FOR DETERMINING COMPUTER PROGRAM AND STORAGE TO DETERMINE A SPATIAL TRANSMISSION MODE	[redacted]	[redacted]	PCT	APP-Pending	US	16/066343		US-2019-0115957-A1		
34755	TRANSMITTER PERFORMANCE CALIBRATION SYSTEMS AND METHODS	[redacted]	[redacted]	NP	PAT-Active	US	15/276005	10122477	US-2018-0091241-A1		
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34757	HIGHER LAYER DESIGN FOR CONTROL PLANE PACKET PROCESSING IN FIFTH GENERATION (5G) WEARABLE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201580084788X		108076558	Yes	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34759	DUAL BEAM TRANSMISSION AND ACK (ACKNOWLEDGEMENT)/NACK (NEGATIVE ACKNOWLEDGEMENT) FEEDBACK MECHANISM FOR PUCCH (PHYSICAL UPLINK CONTROL CHANNEL)	[redacted]	[redacted]	PCT	APP-Pending	DE	112017002348		112017002348	Yes	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number	ETSI DECLARED?	
34759	EXTENDED PHYSICAL BROADCAST CHANNEL DESIGN FOR 5G STANDALONE SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/099679		US-2019-0149276-A1	Yes	
34761	AVOIDING DISCARD OF CRITICAL VIDEO DATA IN MODEM LONG TERM EVOLUTION STACK	[redacted]	[redacted]	PCT	APP-Pending	DE	112016006856G		112016006850		
34762	APPARATUS OF A USER EQUIPMENT (UE) TO SELECT RESOURCES IN A VEHICLE TO VEHICLE (V2V) COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Pending	US	16/094853		US-2016-0150157-A1		
34763	PRIORITIZED COMMUNICATIONS FOR VEHICULAR PROXIMITY SERVICES	[redacted]	[redacted]	PCT	APP-Pending	CN	201688008488965		109076509		
34764	COMMUNICATION DEVICE AND METHOD FOR PERFORMING POSITIONING	[redacted]	[redacted]	EPA	APP-Pending	EP	161914007		3301484		
34765	CELLULAR TELEPHONE NETWORK TO NARROW BAND - INTERNET OF THINGS NETWORK SWITCHING METHOD AND APPARATUS	[redacted]	[redacted]	PCT	PAT-Active	US	15/279634	9906991			
34766	MAMP AND UWP ENHANCEMENTS FOR CONCATENATION AND SEGMENTATION	[redacted]	[redacted]	PCT	APP-Pending	CN	201680085645		109076098	Yes	
34767	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34768	SYSTEMS METHODS AND DEVICES FOR NON-ADAPTIVE RETRANSMISSION USING SEMI-PERSISTENT SCHEDULING RESOURCES	[redacted]	[redacted]	PCT	APP-Pending	CN	201680085378		109075909		
34769	SYSTEMS [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				
34770	SYSTEMS METHODS AND DEVICES FOR NON-ADAPTIVE RETRANSMISSION USING SEMI-PERSISTENT SCHEDULING RESOURCES	[redacted]	[redacted]	EPT	APP-Pending	EP	168235224		3456070		
34771	SYSTEMS METHODS AND DEVICES FOR NON-ADAPTIVE RETRANSMISSION USING SEMI-PERSISTENT SCHEDULING RESOURCES	[redacted]	[redacted]	PCT	APP-Pending	US	16/093093		US-2016-0215907-A1		
34772	TRACKING USER EQUIPMENT AT RADIO ACCESS NETWORK LEVEL	[redacted]	[redacted]	PCT	APP-Pending	CN	201780023560B		109076479	Yes	
34773	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]				[redacted]	
34774	TRANSPORT CHANNEL TO PHYSICAL CHANNEL MAPPING WITH SCALABLE TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	PCT	APP-Pending	DE	112017002491?		112017002481	Yes	
34775	MECHANISMS FOR AVOIDANCE OF EXPLICIT QUALITY OF SERVICE SIGNALING OVER THE RADIO INTERFACE	[redacted]	[redacted]	PCT	APP-Pending	CN	201880046366		109076379	Yes	
34776	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	
34777	MECHANISMS FOR AVOIDANCE OF EXPLICIT QUALITY OF SERVICE SIGNALING OVER THE RADIO INTERFACE	[redacted]	[redacted]	EPT	APP-Pending	EP	167819291		3456085	Yes	

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1	BASIC	BASIC	BASIC	BASIC	BASIC	BASIC	NUMBER	NUMBER	NUMBER
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4									
5	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6	CRITICAL DATA HANDLING ENHANCEMENTS FOR VIDEO AND OTHER APPLICATIONS	[redacted]	[redacted]	PSP	APP-Closed	US	62/544626		
7	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8									
9	USER EQUIPMENT-ASSISTED MEASUREMENT GAP CONFIGURATION IN NEW RADIO	[redacted]	[redacted]	PSP	APP-Closed	US	62/561424		
10	BEAM RECIPROCITY INDICATION AND JOINT UPLINK DOWNLINK BEAM MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/060025		WO2018/085709
11	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
12							[redacted]		
13	PRODUCING CONNECTION POINT RELATED PERFORMANCE MEASUREMENTS IN NETWORK FUNCTION VIRTUALIZATION ENVIRONMENTS	[redacted]	[redacted]	PSP	APP-Closed	US	62/562021		
14	POWER HEADROOM OF GRANTLESS UPLINK	[redacted]	[redacted]	PSP	APP-Closed	US	62/562736		
15	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
16	DEVICE REQUESTED PROTOCOL DATA UNIT SESSION MODIFICATION IN THE 5G SYSTEM	[redacted]	[redacted]	PSP	APP-Closed	US	62/571671		
17	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
18									
19	BANDWIDTH PART RADIO RESOURCE CONTROL SIGNALING AND MEASUREMENT HANDLING	[redacted]	[redacted]	PSP	APP-Closed	US	62/564787		
20	SCHEDULING INFORMATION OF SIB1-BR FOR SKIPPING MIB DURING HO	[redacted]	[redacted]	PSP	APP-Closed	US	62/564872		
21	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
22	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
23	PROCEDURE FOR LONG TERM EVOLUTION (LTE) VEHICLE TO ANYTHING (V2X) ASYNCHRONOUS SYNCHRONIZATION REFERENCE USER EQUIPMENT (UE) SELECTION AND RESELECTION	[redacted]	[redacted]	PSP	APP-Closed	US	62/567162		
24	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
25	MANAGING LTE-WIRELESS LOCAL AREA NETWORK AGGREGATION AND LTE-WIRELESS LOCAL AREA NETWORK WITH IPSEC TUNNEL	[redacted]	[redacted]	PSP	APP-Closed	US	62/568208		
26	RADIO LINK MONITORING (RLM) EVALUATION MECHANISM FOR NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/572326		
27	MULTI-CARRIER OPERATION FOR ENHANCED MACHINE TYPE COMMUNICATIONS IN UNLICENSED MEDIUM (EMTC-U)	[redacted]	[redacted]	PSP	APP-Closed	US	62/574084		
28	TIME OF ARRIVAL (TOA) BASED POSITIONING IN NEW RADIO (NR)	[redacted]	[redacted]	PSP	APP-Closed	US	62/574113		
29	ENABLING NETWORK SLICING IN 5G NR RAN WITH CP/UP SEPARATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/582858		
30	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
31	FILTER COEFFICIENT CONFIGURATION FOR RADIO RESOURCE MANAGEMENT (RRM) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/585281		
32	MULTIPLE STREAM CONTROL TRANSMISSION PROTOCOL (SCTP) ASSOCIATIONS ON THE F1 INTERFACE	[redacted]	[redacted]	PSP	APP-Closed	US	62/582839		
33	FLEXIBLE FLOW CONTROL MECHANISM FOR NEXT GENERATION RADIO ACCESS NETWORK INTERFACES	[redacted]	[redacted]	PSP	APP-Closed	US	62/586764		
34	S-MEASURE ON NEW RADIO (NR) SYNCHRONIZATION SIGNAL (SS) AND CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/582844		
35	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
36	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
37	SINGLE REGISTRATION MODE SUPPORT FOR INTERWORKING BETWEEN FIFTH GENERATION CORE NETWORK (5GC) AND EVOLVED PACKET CORE NETWORK (EPC)	[redacted]	[redacted]	PSP	APP-Closed	US	62/588787		
38	CONTROL CHANNEL BEAM SWITCHING	[redacted]	[redacted]	PSP	APP-Closed	US	62/615884		
39	RADIO RESOURCE CONTROL (RRC) CONNECTION SETUP OPTIMIZATION IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/616141		
40	METHOD AND APPARATUS OF RESOLVING BIDDING DOWN ATTACKS FOR MULTI-CONNECTIVITY	[redacted]	[redacted]	PSP	APP-Closed	US	62/616841		
41	ENHANCING F1 APPLICATION PROTOCOL (F1-AP) INTERFACES IN A MULTI-HOP RELAY NETWORK WITH CENTRALIZED UNIT (CU) DISTRIBUTED UNIT (DU) SPLITTING	[redacted]	[redacted]	PSP	APP-Closed	US	62/620854		
42	TRANSMISSION OF HYBRID AUTOMATIC REPEAT REQUEST (HARQ)-ACKNOWLEDGEMENT (ACK) BITS FOR NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/616752		
43	NEXT GENERATION (NG) - APPLICATION PROTOCOL (AP) PAGING PROCEDURE	[redacted]	[redacted]	PSP	APP-Closed	US	62/616955		
44	ZERO PADDING METHOD FOR CHANNEL STATE INFORMATION (CSI) REPORT CODING	[redacted]	[redacted]	PSP	APP-Closed	US	62/617030		
45	TRANSMISSION DOWNLINK CONTROL INFORMATION FOR NEW RADIO (NR) SYSTEM	[redacted]	[redacted]	PSP	APP-Closed	US	62/617109		

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
46	NOVEL UPLINK (UL) NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) TRANSMISSION SCHEME FOR PEAK TO AVERAGE POWER RATIO (PAPR) REDUCTION	[redacted]	[redacted]	PSP	APP-Closed	US	62/627077		
47	CONTROL SIGNALING OF BEAM FAILURE DETECTION			PSP	APP-Closed	US	62/627081		
48	MINIMIZATION OF PADDING ISSUE AND RESOURCE WASTAGE			PSP	APP-Closed	US	62/627397		
49	Signaling antenna panel capability for millimeter wave (mmwave) communications	[redacted]	[redacted]	PSP	APP-Closed	US	62/710320		
50	DYNAMIC ADAPTATION OF MAXIMUM PACKET LOSS RATIO FOR SINGLE RADIO VOICE CALL CONTINUITY (SRVCC) HANDOVER OPTIMIZATION USING SESSION DESCRIPTION PROTOCOL (SDP)	[redacted]	[redacted]	PSP	APP-Closed	US	62/630104		
51	METHOD AND APPARATUS TO MANAGE BEARERS IN NG-RAN			PSP	APP-Closed	US	62/710311		
52	METHODS OF HANDLING SCHEDULING REQUESTS FOR ULTRA-RELIABLE LOW LATENCY COMMUNICATION SERVICES IN NEW RADIO	[redacted]	[redacted]	PSP	APP-Closed	US	62/631322		
53	ULTRA-RELIABLE AND LOW LATENCY PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) TRANSMISSIONS IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/710411		
54	TRANSPORT BLOCK SELECTION FOR 1024 QUADRADTURE AMPLITUDE MODULATION (QAM)	[redacted]	[redacted]	PSP	APP-Closed	US	62/632569		
55	STEERING OF ROAMING IN FIFTH GENERATION (5G) SYSTEMS			PSP	APP-Closed	US	62/632097		
56	Conformally Shielded Power Inductor and Other Passive Devices for 4/5G Envelope Tracker Modules and/or Other Power Management Modules	[redacted]	[redacted]	PSP	APP-Closed	US	62/648675		
57	COMMON AND USER EQUIPMENT (UE) SPECIFIC PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) CONFIGURATION FOR ENHANCED MACHINE-TYPE COMMUNICATIONS (EMTC) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/638651		
58	CONFIGURATION MANAGEMENT SERVICES FOR FIFTH GENERATION (5G) NETWORKS AND NETWORK FUNCTIONS (NF)	[redacted]	[redacted]	PSP	APP-Closed	US	62/641799		
59	BEAM INDICATION IN CARRIER AGGREGATION			PSP	APP-Closed	US	62/645043		
60	PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) BLIND DECODING IN FIFTH GENERATION (5G) NEW RADIO SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/646597		
61	INTER-CELL BEAM MANAGEMENT			PSP	APP-Closed	US	62/646595		
62	MANAGING CONNECTIVITY OF A PHYSICAL NETWORK FUNCTION IN A NETWORK SLICING INSTANCE	[redacted]	[redacted]	PSP	APP-Closed	US	62/648335		
63	FAST QUALITY OF SERVICE (QOS) FLOW REMAPPING IN NEW RADIO (NR)			PSP	APP-Closed	US	62/653809		
64	METHOD OF SIDELINK SYNCHRONIZATION FOR THE CASE OF SIDELINK VEHICLE TO VEHICLE CARRIER AGGREGATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/653729		
65	MULTIPLEXING OF MULTIPLE UPLINK CONTROL INFORMATION TYPES ON AN UPLINK PHYSICAL CONTROL CHANNEL IN NEW RADIO	[redacted]	[redacted]	PSP	APP-Closed	US	62/654000		
66	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
67	MEASUREMENT GAP CONFIGURATION IN STANDALONE (SA) IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/668059		
68	MECHANISMS FOR SETTING UP E1 INTERFACE IN NEXT GENERATION RADIO ACCESS NETWORK (NG-RAN)	[redacted]	[redacted]	PSP	APP-Closed	US	62/669780		
69	AUTONOMOUS UPLINK TRANSMISSION IN NEW RADIO UNLICENSED			PSP	APP-Closed	US	62/669842		
70	SYSTEM AND METHODS ON PRACH RESOURCE SELECTION			PSP	APP-Closed	US	62/670585		
71	MECHANISMS FOR SUPPORTING DYNAMIC RESOURCE SCALING AND VIRTUAL MACHINE (VM) MIGRATION IN NEXT GENERATION RADIO ACCESS NETWORKS (NG-RAN)	[redacted]	[redacted]	PSP	APP-Closed	US	62/670640		
72	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
73	HYBRID AUTOMATIC REPEAT REQUEST (HARQ)-ACKNOWLEDGEMENT (ACK) CODEBOOK DETERMINATION IN FIFTH GENERATION (5G) NEW RADIO SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/670638		
74	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
75	SUPPORT OF AGGRESSIVE USER EQUIPMENT (UE) MINIMUM PROCESSING TIMES IN NEW RADIO (NR) SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/670650		
76	BANDWIDTH PART SWITCHING DELAY MECHANISMS			PSP	APP-Closed	US	62/671261		
77	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
78	LAYER 1 (L1)-REFERENCE SIGNAL RECEIVED POWER (RSRP) MEASUREMENT ACCURACY FOR NEW RADIO (NR) BEAM DETECTION	[redacted]	[redacted]	PSP	APP-Closed	US	62/671338		
79	SESSION CONTINUITY IN MOBILE SYSTEMS USING USER PLANE FUNCTIONS WITH UPLINK CLASSIFIER	[redacted]	[redacted]	PSP	APP-Closed	US	62/674857		
80	ON MECHANISM OF BWP SWITCHING			PSP	APP-Closed	US	62/674313		
81	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
82	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
83	ADAPTIVE SELECTION OF CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) DENSITY AND EVALUATION PERIOD FOR RADIO LINK MONITORING AND BEAM FAILURE DETECTION	[redacted]	[redacted]	PSP	APP-Closed	US	62/676204		
84	ENHANCED UPLINK BEAM MANAGEMENT			PSP	APP-Closed	US	62/683518		
85	FULL BANDWIDTH UPLINK TRANSMISSION FOR UNLICENSED NARROWBAND INTERNET OF THINGS (NB-IOT)	[redacted]	[redacted]	PSP	APP-Closed	US	62/681958		
86	DEMODULATION REFERENCE SIGNAL (DMRS) AND PHASE TRACKING REFERENCE SIGNAL (PT-RS) PORT INDICATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/685152		
87	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
88	VEHICLE-TO-EVERYTHING (V2X) CONTROL FUNCTION TO PROVISION THE ACCORDING POLICY AND PARAMETER TO USER EQUIPMENT (UE) BASED ON THE USER EQUIPMENT (UE) CAPABILITY INDICATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/687029		
89	V2X COMMUNICATION AUTHORIZATION IN 5G SYSTEMS			PSP	APP-Closed	US	62/687702		
90	NPRACH CONFIGURATION AND FORMAT FOR UNLICENSED NBIOT SYSTEM			PSP	APP-Closed	US	62/688288		
91	MECHANISMS FOR SUPPORTING MULTIPLE COMMON CONTROL LOGICAL CHANNELS	[redacted]	[redacted]	PSP	APP-Closed	US	62/688297		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
92	SFTD MEASUREMENT FOR EN-DC AND NE-DC	[redacted]	[redacted]	PSP	APP-Closed	US	62/689709		
93	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
94	DYNAMIC CHANGE OF CONNECTIVITY AMONG 5G VNF AND PNF INSTANCES	[redacted]	[redacted]	PSP	APP-Closed	US	62/697852		
95	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
96	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
97	REDUCED CSI (CHANNEL STATE INFORMATION)-RS (REFERENCE SIGNAL) DENSITY SUPPORT FOR FD (FULL DIMENSIONAL)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/052194		WO2018/057494
98	LWIP USER PLANE INTERFACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/059372		WO2018/085290
99	REFERENCE SIGNAL TIME DIFFERENCE (RSTD) MEASUREMENTS FOR OBSERVED TIME DIFFERENCE OF ARRIVAL (OTDOA) POSITIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/058080		WO2018/085078
100	MESSAGE 3 TRANSMISSION IN RANDOM ACCESS PROCEDURE FOR NR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/060010		WO2018/085701
101	SIGNALING TO SUPPORT REDUCED PROCESSING TIME	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/057985		WO2018/085075
102	UE AND DEVICES FOR CODEC RATE ADAPTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/059952		WO2018/085668
103	SYSTEMS AND METHODS FOR BI-CASTING INFORMATION TO USER EQUIPMENT OF A WIRELESS TELECOMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/060055		WO2018/085727
104	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
105	CONFIGURATION OF RADIO RESOURCE MANAGEMENT MEASUREMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/061263		WO2018/089878
106	DEVICES FOR PER-CC MEASUREMENT GAP CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/061352		WO2018/089917
107	DYNAMIC PROTOCOL STACK RESET DURING RADIO HANDOVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/061135		WO2018/089803
108	COVERAGE ENHANCEMENT FOR UNLICENSED INTERNET OF THINGS (U-IoT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/061873		WO2018/093951
109	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
110	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
111	HANDLING OF USER EQUIPMENTS (UES) COVERAGE ENHANCEMENT (CE) MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN UES USAGE SETTING	[redacted]	[redacted]	PSP	APP-Closed	US	62/505520		
112	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
113	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
114	HANDOVER FOR UNMANNED AERIAL VEHICLES	[redacted]	[redacted]	PSP	APP-Closed	US	62/543153		
115	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
116	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
117	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
118	METHOD FOR ESTIMATING CRYSTAL COEFFICIENT VALUES FOR A SIGNAL GENERATOR	[redacted]	[redacted]	NP	MTR-Closed	TW	91112601	I292582	
119	WIRELESS LINK CONTROL AND RECOVERY USING POSITIONAL DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046405		WO2018/063527
120	DEVICES AND METHODS FOR BAND PAUSE TESTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/028542		WO2017/213759
121	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
122	SERVICES PROVISIONING FOR INTERNET-OF-THINGS DEVICES IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/037680		WO2017/218775
123	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
124	SCHEDULING REQUEST TRANSMISSIONS IN THE UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/027786		WO2017/213751
125	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
126	INTERFERENCE AWARE BEAM SELECTION FOR NR (NEW RADIO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/035904		WO2018/005014
127	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
128	CHANNEL STATE AND BEAM RELATED INFORMATION REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/037637		WO2017/218749
129	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
130	END-TO-END TECHNIQUES TO COLLECT PM (PERFORMANCE MEASUREMENT) DATA FROM A NVF (NETWORK FUNCTION VIRTUALIZATION) INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/019942		WO2017/222609
131	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
132	END-TO-END TECHNIQUES TO CREATE PM (PERFORMANCE MEASUREMENT) THRESHOLDS AT NFV (NETWORK FUNCTION VIRTUALIZATION) INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/021488		WO2017/222613
133	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
134	APPARATUSES FOR COMBINING AND DECODING ENCODED BLOCKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068636		WO2017/222582
135	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
136	UPLINK SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION IN CARRIER AGGREGATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/038536		WO2017/223196
137	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
138	DEVICE AND METHOD FOR NFV LIFE CYCLE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068973		WO2017/222595
139	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
140	SYSTEMS METHODS AND DEVICES FOR CONTROL-USER PLANE SEPARATION FOR 5G RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/038603		WO2018/009340
141	CONTROL-USER PLANE SEPARATION FOR 5G RADIO ACCESS NETWORKS	[redacted]	[redacted]	PSP	APP-Closed	WO	PCT/CN2016/088513		
142	EARLY ACKNOWLEDGEMENT FEEDBACK FOR 5G GROUPED TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/038660		WO2018/005615
143	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
144	OPTIMIZED PAGING MECHANISM FOR IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/039393		WO2018/005419
145	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
146	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/039786		WO2018/005661

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
147	[redacted]								
148	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS			PCT	APP-Closed	WO	PCT/US2016/054313		WO2017/074838
149	LOW LATENCY PRACH DESIGN IN UNLICENSED SPECTRUM			PCT	APP-Closed	WO	PCT/US2016/054544		WO2017/151187
150	ENHANCED REPORTING AND UPLINK ROBUSTNESS DESIGN			PCT	APP-Closed	WO	PCT/US2016/062513		WO2017/160351
151	POLAR CODES FOR HARQ TRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2016/053026		WO2017/176309
152	PHYSICAL RANDOM ACCESS CHANNEL (PRACH) DESIGN			PCT	APP-Closed	WO	PCT/US2016/054181		WO2017/196387
153	AMPLITUDE-MODULATION SIGNAL AND PHASE-MODULATION SIGNAL DELAY ADJUSTMENT FOR POLAR TRANSMITTER			PCT	APP-Closed	WO	PCT/US2017/046882		WO2018/052612
154	PAPR reduction for IQ RPOAC			PCT	APP-Closed	WO	PCT/US2017/048116		WO2018/057204
155	QCL (QUASI CO-LOCATION) INDICATION FOR BEAMFORMING MANAGEMENT			PCT	APP-Closed	WO	PCT/US2017/016695		WO2018/017163
156	[redacted]								
157	LWA ENHANCEMENTS FOR TRI-BAND (2.4 GHZ 5 GHZ AND 60 GHZ) WI-FI EQUIPMENT			PCT	APP-Closed	WO	PCT/US2017/015362		WO2018/017161
158	[redacted]								
159	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS			PCT	APP-Closed	WO	PCT/US2017/044781		WO2018/063494
160	MOBILE TERMINAL DEVICES AND METHODS IN MOBILE COMMUNICATION DEVICES			PCT	APP-Closed	WO	PCT/US2016/054263		WO2018/063200
161	MOBILE COMMUNICATIONS DEVICE AND METHOD USING SINGLE TRANSMISSION CHAIN			PCT	APP-Closed	WO	PCT/US2017/047470		WO2018/063567
162	MOBILE DEVICE MANAGEMENT BASED ON PREDICTED BASE STATION BEHAVIOR			PCT	APP-Closed	WO	PCT/US2016/054272		WO2018/063201
163	MULTIPLEXING A RECEIVE CHAIN BETWEEN ENTITIES OF A DEVICE WHEN ERROR CORRECTING TECHNIQUE IS EMPLOYED BY AN ENTITY			PCT	APP-Closed	WO	PCT/US2017/047716		WO2018/080620
164	METHOD AND DEVICE FOR PROVIDING CQI REPORTS			PCT	APP-Closed	WO	PCT/EP2017/074510		WO2018/060254
165	METHODS AND DEVICES FOR SELF-INTERFERENCE CANCELATION			PCT	APP-Closed	WO	PCT/US2016/054286		WO2018/017143
166	DISCOVERY AND NETWORK ACCESS PROCEDURES FOR 5G THINGS COMMUNICATION SYSTEM			PCT	APP-Closed	WO	PCT/US2016/058480		WO2017/146777
167	[redacted]								
168	TESTING OF USER EQUIPMENTS FOR IDLE PERIODS DISTRIBUTION			PCT	APP-Closed	WO	PCT/US2017/026860		WO2018/022151
169	[redacted]								
170	METHOD OF UPLINK CONTROL SIGNALING FOR NON-SCHEDULED UPLINK OPERATION OVER UNLICENSED SPECTRUM			PCT	APP-Closed	WO	PCT/US2016/050137		WO2017/146772
171	DATA COMMUNICATION OVER SHORTENED TTI (TRANSMISSION TIME INTERVAL)			PCT	APP-Closed	WO	PCT/US2017/043628		WO2018/022560
172	[redacted]								
173	COLLECTION OF VNF (VIRTUAL NETWORK FUNCTION) PERFORMANCE MEASUREMENTS RELATED TO VIRTUALIZED RESOURCES			PCT	APP-Closed	WO	PCT/US2017/044280		WO2018/022951
174	[redacted]								
175	TRANSMISSION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS)			PCT	APP-Closed	WO	PCT/US2017/045748		WO2018/027222
176	[redacted]								
177	UE CAPABILITY SIGNALING FOR MAKE-BEFORE-BREAK AND RACH-LESS HANDOVER			PCT	APP-Closed	WO	PCT/US2017/026712		WO2018/026601
178	[redacted]								
179	STATION (STA) AND METHOD FOR USAGE OF PHASE NOISE COMPENSATION BASED ON OPERATIONAL PARAMETERS			PCT	APP-Closed	WO	PCT/US2017/048124		WO2018/063689
180	A TRANSMITTER AND A METHOD FOR GENERATING AN ANALOG RADIO FREQUENCY TRANSMIT SIGNAL			PCT	APP-Closed	WO	PCT/IB2016/055145		WO2018/042219
181	LOW COMPLEXITY CHANNEL DECODERS			PCT	MTR-Closed	CN	28117816	ZL028117816	1515079
182	LOW COMPLEXITY CHANNEL DECODERS			CNT	APP-Closed	US	11/673380		US-2007-0198899-A1
183	LOW COMPLEXITY CHANNEL DECODERS			NP	MTR-Closed	MY	PI20022200	MY-138817-A	
184	LOW COMPLEXITY CHANNEL DECODERS			PCT	APP-Closed	WO	PCT/US2002/014878		WO2002/101936
185	[redacted]								
186	AUDIO SIGNAL PROCESSING FOR SPEECH COMMUNICATION			CNT	MTR-Closed	US	10/934059	7149685	US-2005-0027526-A1
187	AUDIO SIGNAL PROCESSING FOR SPEECH COMMUNICATION			PCT	MTR-Closed	CN	28094513	ZL028094913	1507689
188	AUDIO SIGNAL PROCESSING FOR SPEECH COMMUNICATION			NP	MTR-Closed	MY	PI20021648	MY-131821-A	
189	AUDIO SIGNAL PROCESSING FOR SPEECH COMMUNICATION			PCT	APP-Closed	WO	PCT/US2002/014015		WO2002/091570
190	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			PCT	MTR-Closed	CN	2.0038E+12	ZL200380101478.3	1706110
191	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			EPT	MTR-Closed	DE	37766803	603279392	1561289
192	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			EPT	MTR-Closed	EP	37766803	1561289	1561289
193	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			EPT	MTR-Closed	GB	37766803	1561289	1561289
194	[redacted]								
195	REDUCED COMPLEXITY MMSE MULTIUSER DETECTION FOR A MULTIRATE CDMA LINK			PCT	APP-Closed	WO	PCT/US2003/034378		WO2004/045103
196	BUFFER STATUS REPORTING METHODS AND PROCEDURES			PCT	APP-Closed	WO	PCT/US2017/060337		WO2018/031183
197	[redacted]								
198	CHANNEL STATE INFORMATION CONFIGURATION FOR MOBILE COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2017/039676		WO2018/031132
199	[redacted]								
200	X2 SUPPORT FOR ENHANCED MOBILITY (EMOB)			PCT	APP-Closed	WO	PCT/US2017/035736		WO2018/031130
201	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
202	CONTROL CHANNEL TRANSMISSION IN NEW RADIO ACCESS TECHNOLOGIES USING COMMON SEARCH SPACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/035899		WO2018/031111
203	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
204	ENHANCED PHYSICAL RANDOM-ACCESS CHANNEL TRANSMISSION IN NEW RADIO STANDARD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/044848		WO2018/031291
205	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
206	ENHANCED LTE-WLAN AGGREGATION X2 AND XW SUPPORT FOR HANDOVER WITHOUT WLAN TERMINATION CHANGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/039944		WO2018/031139
207	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
208	SYNCHRONIZATION SIGNAL TRANSMISSION FOR NEW RADIO STANDARD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/044835		WO2018/031295
209	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
210	INDOOR POSITIONING ENHANCEMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/029607		WO2018/031084
211	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
212	RRC COORDINATION BETWEEN A PLURALITY OF NODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/045849		WO2018/031573
213	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
214	SYSTEMS AND METHOD FOR SELECTING CARRIER RESOURCES FOR NARROWBAND PHYSICAL RANDOM ACCESS CHANNEL PROCEDURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/044946		WO2018/031301
215	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
216	SYSTEMS METHODS AND DEVICES FOR BEAM MEASUREMENT AND REPORTING IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/039892		WO2018/031138
217	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
218	OPTIMIZED RESOURCE SELECTION PROCEDURES IN VEHICLE-TO-VEHICLE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/030274		WO2018/031088
219	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
220	MULTIPLE MAC ENTITIES PER USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/029878		WO2018/031085
221	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
222	SUPPORT OF SC-PTM BASED MULTICASTING FOR BL/CE AND NB-IoT UEs	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046581		WO2018/031928
223	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
224	USING A MANAGED OBJECT OPERATION TO CONTROL A LIFECYCLE MANAGEMENT OPERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/016961		WO2018/034693
225	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
226	METHOD FOR COMMUNICATING COMPUTER PROGRAM WIRELESS COMMUNICATION DEVICE WIRELESS COMMUNICATIONS PROCESSOR TRANSMITTER AND APPLICATION PROCESSOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/045200		WO2018/080611
227	METHODS AND DEVICES FOR COMPENSATING MISADJUSTMENT OF A GNSS DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/056470		WO2018/106301
228	LDPC DECODER FOR DECODING CONVOLUTIONAL CODES OR TURBO CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2017/071601		WO2018/059856
229	BEAM REFINEMENT AND CONTROL SIGNALING FOR MOBILE COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/047362		WO2018/035334
230	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
231	FILTERING FOR MEASUREMENT IN FIFTH GENERATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/020707		WO2018/034698
232	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
233	PHASE COMPENSATION REFERENCE SIGNAL FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/031825		WO2017/196896
234	SCHEDULING UPLINK TRANSMISSIONS FOR A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/057381		WO2017/070055
235	METHOD AND APPARATUS FOR CHANNEL ACCESS FOR TRANSMISSION OF PUSCH AND UL CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/012630		WO2017/120542
236	UL (UPLINK) CONTROL DESIGN FOR UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/012122		WO2017/120183
237	CONSTRUCTING REPRESENTING AND ENCODING POLAR CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/063650		WO2017/196391
238	TRANSMISSION OF MULTIPLE USER SUPERPOSITION TRANSMISSION (MUST) PARAMETERS TO USER EQUIPMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/047986		WO2018/039212
239	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
240	DEVICES AND METHODS FOR ELAA MULTI-CARRIER LBT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/031953		WO2018/038777
241	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
242	NETWORK ASSISTED SIGNALING FOR HIGH SPEED DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/047856		WO2018/039143
243	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
244	MASTER INFORMATION BLOCK AND SYSTEM INFORMATION BLOCK TRANSMISSIONS IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/065436		WO2017/100365
245	TRANSMITTER AND RECEIVER FOR MASTER INFORMATION BLOCK OVER PHYSICAL BROADCAST CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/065463		WO2017/127172
246	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/062298		WO2018/094203
247	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
248	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
249	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
250	DOWNLINK CONTROL CHANNEL DESIGN FOR BEAMFORMING SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/051609		WO2018/053160
251	DOWNLINK CONTROL CHANNEL FOR BEAMFORMING SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	62/395281		
252	CSI (CHANNEL STATE INFORMATION)-RS (REFERENCE SIGNAL) OVERHEAD REDUCTION FOR CLASS B FD (FULL DIMENSIONAL)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068518		WO2017/136068
253	CODE DIVISION MULTIPLEXING OF UPLINK CONTROL INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068582		WO2017/155591
254	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
255	MOBILITY ENHANCEMENTS FOR INTRA-CELL AND INTER-CELL MOBILITY IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046154		WO2018/057143
256	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
257	WIRELESS LOCAL AREA NETWORK INTEGRATION WITH INTERNET PROTOCOL SECURITY TUNNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/052286		WO2018/057521
258	[redacted]								
259	AT COMMANDS FOR CELLULAR INTERNET OF THINGS RATE CONTROL			PCT	APP-Closed	WO	PCT/US2017/038977		WO2018/063482
260	[redacted]								
261	FREQUENCY HOPPING FOR UNLICENSED INTERNET OF THINGS			PCT	APP-Closed	WO	PCT/US2017/054400		WO2018/064525
262	[redacted]								
263	SYSTEM AND METHOD FOR BEAMED REFERENCE SIGNAL WITH HYBRID BEAM			PCT	APP-Closed	WO	PCT/CN2016/105053		WO2017/080438
264	SUPPORT OF FREQUENCY HOPPING WITH DIFFERENT NUMBER OF PHYSICAL RESOURCE BLOCKS IN DIFFERENT HOPPED FREQUENCY REGIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/052108		WO2018/063845
265	[redacted]	[redacted]	[redacted]						
266	UPLINK TRANSMISSION FOR MULTIPLE SERVICES AND PHYSICAL CONFIGURATIONS IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/053325		WO2018/064002
267	[redacted]								
268	METHOD OF APERIODIC CSI-RS INDICATION FOR NEW RADIO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/054527		WO2018/064590
269	[redacted]								
270	ENHANCED CELL IDENTIFIER POSITIONING			PCT	APP-Closed	WO	PCT/US2017/053915		WO2018/064278
271	[redacted]								
272	SYSTEMS AND METHODS FOR CONFIGURATION OF LIGHT CONNECTION			PCT	APP-Closed	WO	PCT/US2017/044658		WO2018/057120
273	[redacted]								
274	CAPABILITY NOTIFICATION FOR USER EQUIPMENT LATENCY REDUCTION			PCT	APP-Closed	WO	PCT/US2017/054576		WO2018/064615
275	[redacted]								
276	CORE NETWORK OVERLOAD CONTROL FOR CONTROL PLANE EVOLVED PACKET SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/035970		WO2018/063453
277	[redacted]								
278	LINK MONITORING REPETITION LEVEL FEEDBACK FOR COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/044094		WO2018/063485
279	[redacted]	[redacted]	[redacted]						
280	INTRA- AND INTER-RAT CO-EXISTENCE AND CONGESTION CONTROL FOR LTE PC5-BASED VEHICLE-TO-VEHICLE (V2V) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/053652		WO2018/064131
281	INTRA-AND INTER-RAT CO-EXISTENCE AND CONGESTION CONTROL FOR LTE PC5-BASED VEHICLE-TO-VEHICLE (V2V) COMMUNICATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/402507		
282	PDCP REC HANDLING IN DC SPLIT BEARER			PCT	APP-Closed	WO	PCT/US2017/020418		WO2018/063435
283	[redacted]								
284	SYSTEMS METHODS AND DEVICES FOR UPLINK BEARER AND ACCESS CATEGORY MAPPING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/038804		WO2018/063461
285	[redacted]								
286	UE CAPABILITIES FOR ELWA			PCT	APP-Closed	WO	PCT/US2017/036975		WO2018/063456
287	[redacted]								
288	CONFIGURATION OF DISCONTINUOUS RECEPTION (DRX) PARAMETERS IN LIGHT CONNECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/039561		WO2018/063467
289	[redacted]								
290	DMRS FOR 5G THINGS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055300		WO2017/146779
291	USER EQUIPMENT (UE) AND METHOD OF SIDELINK COMMUNICATION IN FIFTH GENERATION (5G) NEW RADIO (NR) THINGS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055536		WO2017/146781
292	[redacted]								
293	USER EQUIPMENT (UE) AND METHOD OF SIDELINK DATA COMMUNICATION IN FIFTH GENERATION (5G) NEW RADIO (NR) THINGS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/059472		WO2017/146780
294	[redacted]								
295	DISCOVERY AND PAGING IN NEW RADIO-THINGS SIDELINK			PCT	APP-Closed	WO	PCT/US2016/059688		WO2017/146783
296	[redacted]								
297	RANDOM-ACCESS AND SCHEDULING-REQUEST IN NEW RADIO-THINGS SIDELINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/059704		WO2017/146784
298	[redacted]								
299	UPLINK POSITIONING FOR NARROW BAND INTERNET OF THINGS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/054141		WO2018/067380
300	[redacted]								
301	MULTIPLE RADIO RESOURCE RESERVATION FOR VEHICLE-TO-EVERYTHING COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/054423		WO2018/067600
302	[redacted]								
303	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST (HARQ)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/049313		WO2018/071104
304	[redacted]								
305	NARROWBAND DEFINITIONS RESOURCE ALLOCATION AND FREQUENCY HOPPING FOR USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046580		WO2018/031927
306	MULTI-CARRIER QCL (QUASI CO-LOCATION) FOR ANTENNA PORTS IN NR (NEW RADIO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/053746		WO2018/075205
307	[redacted]								
308	ORTHOGONAL MULTIPLEXING TECHNIQUES FOR DEMODULATION REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/023458		WO2017/165455
309	SPARSE CHANNEL ESTIMATION FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SIGNALS	[redacted]	[redacted]	NP	MTR-Closed	US	09/853376	7230911	US-2002-0131630-A1
310	CHANNEL ESTIMATION FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SIGNALS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2808S022	ZL028085022	1507727
311	SPARSE CHANNEL ESTIMATION FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SIGNALS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20021452	MY-136345-A	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
312	SPARSE CHANNEL ESTIMATION FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/013415		WO2002/093860
313	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR MULTIPLEXING NEW RADIO (NR) PHYSICAL UPLINK SHARED CHANNEL (NR PUSCH) AND NR PHYSICAL UPLINK CONTROL CHANNEL (NR PUCCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/049296		WO2018/080629
314	[redacted]								
315	UE BEHAVIOR DURING SRS SWITCHING AMONG TDD COMPONENT CARRIERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/058812		WO2018/081597
316	[redacted]								
317	DOWNLINK CONTROL INFORMATION DESIGN WITH SHORTER TTI	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/058811		WO2018/085118
318	DOWNLINK CONTROL INFORMATION DESIGN FOR WIRELESS COMMUNICATION WITH SHORTEN TTI LENGTH	[redacted]	[redacted]	PSP	APP-Closed	US	62/416811		
319	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS FOR SIGNALING OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) ALLOCATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/057024		WO2018/085044
320	[redacted]								
321	LIFECYCLE MANAGEMENT PARAMETER MODELING FOR VIRTUAL NETWORK FUNCTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/054502		WO2018/084975
322	[redacted]								
323	SYSTEMS METHODS AND DEVICES FOR MEASUREMENT AND COMMUNICATION OF NUMEROLOGY OF SUBCARRIER SPACING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/020924		WO2018/063437
324	SYSTEMS AND METHODS TO OPTIMIZE REPORTING OF PHYSICAL PARAMETERS IN A TELECOMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/060050		WO2018/085723
325	[redacted]	[redacted]	[redacted]						
326	SYSTEMS AND METHODS TO REPORT BAND COMBINATION CAPABILITIES IN A TELECOMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/060046		WO2018/085721
327	[redacted]								
328	MEASUREMENT REPORTING IN NEW RADIO WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/054082		WO2018/064968
329	[redacted]								
330	SIGNALING OF SUPPORT FOR NCSG FOR INTERRUPTION CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/059606		WO2018/085499
331	[redacted]								
332	AVOIDANCE OF MFN DESYNCHRONIZATION IN UPLINK OVER WLAN IN LTE-WLAN AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/058117		WO2018/085209
333	[redacted]	[redacted]	[redacted]						
334	SYSTEMS METHODS AND DEVICES FOR MAKE-BEFORE-BREAK HANDOVER AND SECONDARY CELL GROUP RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/057325		WO2018/085049
335	[redacted]								
336	[redacted]								
337	CRS AWARENESS IN OTDOA			PSP	APP-Closed	US	62/418104		
338	[redacted]								
339	[redacted]								
340	[redacted]								
341	[redacted]								
342	[redacted]								
343	[redacted]								
344	[redacted]								
345	COVERAGE ENHANCEMENT FOR U-IOT			PSP	APP-Closed	US	62/423039		
346	DEVICE FOR AND METHOD OF RADIO ACCESS TECHNOLOGY SELECTION AMONG MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/038783		WO2018/022225
347	[redacted]								
348	[redacted]	[redacted]	[redacted]						
349	[redacted]	[redacted]	[redacted]						
350	[redacted]								
351	[redacted]								
352	[redacted]								
353	[redacted]								
354	[redacted]								
355	[redacted]								
356	[redacted]								
357	[redacted]								
358	[redacted]								
359	[redacted]								
360	[redacted]								
361	[redacted]								
362	[redacted]	[redacted]	[redacted]						
363	[redacted]								
364	[redacted]								
365	[redacted]								
366	[redacted]	[redacted]	[redacted]						
367	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
368	ACCESS CONTROL FOR NEW RADIO			PSP	APP-Closed	US	62/443342		
369									
370									
371									
372									
373									
374	TYPE II CODEBOOK DESIGN			PSP	APP-Closed	US	62/444242		
375									
376									
377	TRANSMISSION STRUCTURE OF SYNCHRONIZATION SIGNALS			PSP	APP-Closed	US	62/446248		
378	UPLINK DEMODULATION REFERENCE SIGNAL ENHANCEMENT IN FULL-DIMENSION MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEMS			PCT	APP-Closed	WO	PCT/US2017/017206		WO2017/189742
379									
380	OFFSET TECHNIQUE FOR MULTI-BIT DIGITAL-TO-ANALOG CONVERTERS			PSP	APP-Closed	US	62/448851		
381	METHOD FOR TRANSMISSION OF UNICAST CONTROL IN BROADCAST/MULTICAST TRANSMISSION TIME INTERVALS			PSP	APP-Closed	US	60/733675		
382									
383									
384									
385	WIDEBAND REFERENCE SIGNAL TRANSMISSION IN SC-FDMA COMMUNICATION SYSTEMS			PSP	APP-Closed	US	60/869255		
386	SECONDARY SYNCHRONIZATION SIGNAL MAPPING			PCT	APP-Closed	WO	PCT/US2008/077164		WO2009/039470
387	SIMPLIFIED CELL SEARCH SCHEME FOR FIRST AND SECOND STAGE			NP	PAT-Closed	US	09/217759	6345069	
388	SIMPLIFIED CELL SEARCH SCHEME FOR FIRST AND SECOND STAGE			PSP	APP-Closed	US	60/104522		
389	Code division multiple access wireless system with closed loop mode using ninety degree phase rotation and beamformer verification			DIV	APP-Closed	US	10/919469		US-2005-0025223-A1
390									
391	Broadcast Multicast Mode			DIV	APP-Closed	US	15/354780		US-2017-0070868-A1
392	BROADCAST MULTICAST MODE			EPT	MTR-Closed	EP	57612927		1807942
393	BROADCAST MULTI-CAST MODE			PCT	APP-Closed	JP	2007-516667		2008-503164
394	BROADCAST MULTI-CAST MODE			DIV	MTR-Closed	JP	2011-204876	5303833	2012-019544
395	BROADCAST MULTI-CAST MODE			PCT	APP-Closed	KR	10-2006-7026307		10-2007-0017206
396	BROADCAST MULTI-CAST MODE			DIV	MTR-Closed	KR	10-2009-7022777	10-1024471	10-2009-0127188
397	BROADCAST MULTI-CAST MODE			DIV	MTR-Closed	KR	10-2010-7025787	10-1202921	10-2010-0124859
398	BROADCAST MULTI-CAST MODE			DIV	APP-Closed	KR	10-2012-7022087		10-2012-0112825
399	BROADCAST MULTI-CAST MODE			PCT	APP-Closed	WO	PCT/US2005/021071		WO2006/002074
400									
401	UPLINK SYNCHRONIZATION MAINTENANCE PRINCIPLES IN WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2008/061926		WO2008/134682
402	TRANSMISSION OF BUNDLED FEEDBACK IN WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2009/034864		WO2009/105750
403	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS			EPT	APP-Closed	EP	77610558		2014116
404	DOWNLINK SYNCHRONIZATION CHANNEL AND METHODS FOR CELLULAR SYSTEMS			PCT	APP-Closed	WO	PCT/US2007/067137		WO2007/124451
405									
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414	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE			NP	MTR-Closed	US	09/595561	7103085	
415	WIRELESS COMMUNICATIONS SYSTEM WITH SECONDARY SYNCHRONIZATION CODE BASED ON VALUES IN PRIMARY SYNCHRONIZATION CODE			EPD	APP-Closed	EP	51014348		1553708
416	RADIO COMMUNICATION SYSTEM USING SECONDARY SYNCHRONOUS CODE BASED ON PRIMARY SYNCHRONOUS CODE			NP	MTR-Closed	JP	2000-221485	4970843	2001-060915
417	CIRCUIT AND METHOD FOR IMPROVING SSC APERIODIC CROSS CORRELATION BY MASKING			PSP	APP-Closed	US	60/140006		
418	WIRELESS COMMUNICATIONS SYSTEM			EPA	MTR-Closed	DE	30599540	602232271	1075158
419	WIRELESS COMMUNICATIONS SYSTEM			EPA	MTR-Closed	EP	30599540	1075158	1075158
420	WIRELESS COMMUNICATIONS SYSTEM			EPA	MTR-Closed	FR	30599540	1075158	1075158
421	WIRELESS COMMUNICATIONS SYSTEM			EPA	MTR-Closed	GB	30599540	1075158	1075158
422	WIRELESS COMMUNICATIONS SYSTEM			NP	APP-Closed	JP	2000-213250		2001-060894
423	CYCLING OF MIDAMBLES TO REDUCE CROSS CORRELATIONS IN TDD MODE OF WCDMA			PSP	APP-Closed	US	60/143574		
424	RECEIVER ALGORITHM FOR THE LENGTH 4 CFC			PSP	APP-Closed	US	60/151178		
425	METHOD AND APPARATUS FOR PRIORITIZING INFORMATION PROTECTION IN HIGH ORDER MODULATION SYMBOL MAPPING			NP	APP-Closed	JP	2001-280040		2002-164848

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
428	METHOD AND APPARATUS FOR PRIORITIZING INFORMATION PROTECTION IN HIGH ORDER MODULATION SYMBOL MAPPING	[redacted]	[redacted]	NP	APP-Closed	KR	10-2001-0056673		10-2002-0021351
427	METHOD AND APPARATUS FOR PRIORITIZING INFORMATION PROTECTION IN HIGH ORDER MODULATION SYMBOL MAPPING	[redacted]	[redacted]	PSP	APP-Closed	US	60/292357		
428	HIGH DATA RATE CLOSED LOOP MIMO SCHEME COMBINING TRANSMIT DIVERSITY AND DATA MULTIPLEXING	[redacted]	[redacted]	NP	MTR-Closed	US	10/301392	7181167	US-2003-0139139-A1
429	HIGH DATA RATE CLOSED LOOP MIMO SCHEME COMBINING TRANSMIT DIVERSITY AND DATA MULTIPLEXING	[redacted]	[redacted]	DIV	MTR-Closed	US	12/603127	7876854	US-2010-0040172-A1
430	Wireless System With Hybrid Automatic Retransmission Request In Interference-Limited Communications	[redacted]	[redacted]	CNT	MTR-Closed	US	11/931311	9054848	US-2008-0285681-A1
431	HARQ COMBINING TECHNIQUES FOR INTERFERENCE-LIMITED SYSTEMS	[redacted]	[redacted]	PSP	APP-Closed	US	60/362123		
432	WIRELESS MIMO TRANSMITTER WITH ANTENNA AND TONE PRECODING BLOCKS	[redacted]	[redacted]	NP	MTR-Closed	US	11/199629	8023589	US-2006-0029157-A1
433	CLOSED LOOP TECHNIQUES FOR MIMO AND CONSTELLATION PRE-ROTATION FOR OFDM	[redacted]	[redacted]	PSP	APP-Closed	US	60/599935		
434	SLOW UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	APP-Closed	EP	67735811		1897245
435	SLOW UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/023900		WO2007/002032
436	SLOW UPLINK POWER CONTROL	[redacted]	[redacted]	PSP	APP-Closed	US	60/692154		
437	CODEBOOK DESIGN AND PRE-CODER SELECTION FOR CLOSED-LOOP MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/075908		WO2008/022132
438	CODEBOOK DESIGN AND PRE-CODER SELECTION FOR CLOSED-LOOP MIMO	[redacted]	[redacted]	PSP	APP-Closed	US	60/822343		
439	ADAPTIVE CYCLIC SHIFT SELECTION FOR MULTIPLEXING OF REFERENCE SIGNALS	[redacted]	[redacted]	PSP	APP-Closed	US	60/823211		
440	NETWORK-BASED INTER-CELL POWER CONTROL FOR MULTI-CHANNEL WIRELESS NETWORKS	[redacted]	[redacted]	PSP	APP-Closed	US	60/909980		
441	BLOCK SCRAMBLING FOR OFDMA	[redacted]	[redacted]	PSP	APP-Closed	US	60/910126		
442	PRE-SYNCHRONIZATION METHOD FOR E-UTRA HANDOVERS	[redacted]	[redacted]	PSP	APP-Closed	US	60/914937		
443	RANDOM ACCESS PREAMBLE DETECTION FOR LONG TERM EVOLUTION WIRELESS NETWORKS	[redacted]	[redacted]	PSP	APP-Closed	US	60/943683		
444	TIME-SHARING OF SOUNDING RESOURCES	[redacted]	[redacted]	PSP	APP-Closed	US	60/944950		
445	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
446	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
447	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
448	[redacted]								
449	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
450	Transmission Using Nested OFDMA			NP	APP-Closed	US	12/185531		US-2009-0040919-A1
451	TRANSMISSION USING NESTED OFDMA			PCT	APP-Closed	WO	PCT/US2008/072834		WO2009/021244
452	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
453	[redacted]								
454	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
455	[redacted]								
456	NETWORK CONTROLLED SMALL GAP CONFIGURATION MECHANISM FOR CARRIER AGGREGATION AND DUAL CONNECTIVITY	[redacted]	[redacted]	PSP	APP-Closed	US	62/454571		
457	DOWNLINK CONTROL SIGNALING SEGMENTATION	[redacted]	[redacted]	PSP	APP-Closed	US	62/455441		
458	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
459	[redacted]								
460	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
461	[redacted]								
462	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
463	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
464	[redacted]								
465	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
466	CHANNEL QUALITY REPORT PROCESSES CIRCUITS AND SYSTEMS	[redacted]	[redacted]	CNT	MTR-Closed	US	14/255422	9100934	US-2014-0247767-A1
467	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
468	MEASUREMENT ENHANCEMENT IN HIGH SPEED COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/025433		WO2017/173303
469	CSI (CHANNEL STATE INFORMATION) ENHANCEMENTS FOR FD (FULL DIMENSION)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/025242		WO2017/173201
470	FREQUENCY TRACKING FOR BEAMFORMED SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/027297		WO2017/180803
471	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR ADAPTIVE BEAMFORMING AND CHANNEL STATE INFORMATION (CSI) REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/032361		WO2017/197237
472	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
473	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
474	[redacted]								
475	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
476	NPRSDEFF REPORTING FOR RRM ENHANCEMENT	[redacted]	[redacted]	PSP	APP-Closed	US	62/458427		
477	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
478	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
479	[redacted]								
480	Mobile unit position determination using RF signal repeater			DIV	APP-Closed	US	10/715621		US-2004-0097195-A1
481	RF BASE STATION DATA REPEATER			PCT	MTR-Closed	CN	18114377	ZL018114377	1437828
482	RF BASE STATION DATA REPEATER			PCT	MTR-Closed	GB	0306202		2361705
483	RF BASE STATION DATA REPEATER			PCT	MTR-Closed	JP	2002-504163	4238027	2004-501585
484	RF SIGNAL REPEATER MOBILE UNIT POSITION DETERMINATION SYSTEM USING THE RF SIGNAL REPEATER AND METHOD OF COMMUNICATION THEREFOR			NP	APP-Closed	MY	PI20012730	MY-126128-A	
485	RF BASE STATION DATA REPEATER			PCT	APP-Closed	WO	PCT/US2001/018376		WO2001/099444
486	[redacted]								
487	[redacted]								
488	[redacted]								
489	[redacted]								
490	[redacted]								
491	[redacted]								
492	[redacted]								
493	[redacted]								
494	[redacted]								
495	[redacted]								
496	[redacted]								
497	[redacted]								
498	[redacted]								
499	FLEXIBLE BLOCK SIZE SUPPORT FOR POLAR CODE			PSP	APP-Closed	US	62/475457		
500	[redacted]								
501	SUPPORT OF 64 QUADRATURE AMPLITUDE MODULATION (QAM) FOR EVEN FURTHER ENHANCED MACHINE TYPE COMMUNICATION (EFEMTC) UNICAST PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH)			PSP	APP-Closed	US	62/476039		
502	[redacted]								
503	[redacted]								
504	[redacted]								
505	DYNAMIC OFFLOADING OF V2X SERVICES TO DSRC			PCT	APP-Closed	WO	PCT/US2017/039554		WO2018/005531
506	[redacted]								
507	DESIGN AND APPARATUS FOR CPDCCH FOR WIDEBAND COVERAGE ENHANCEMENT (WCE)			PSP	APP-Closed	US	62/480100		
508	[redacted]								
509	[redacted]								
510	SYSTEM AND METHOD FOR PHYSICAL UPLINK REQUEST CHANNEL DESIGN			PCT	APP-Closed	WO	PCT/US2017/036513		WO2017/218282
511	[redacted]								
512	PHASE NOISE COMPENSATION			PCT	APP-Closed	WO	PCT/US2017/040825		WO2018/009608
513	[redacted]								
514	[redacted]								
515	[redacted]								
516	TIMING ADVANCE FOR BEAM FORMING SYSTEMS			PCT	APP-Closed	WO	PCT/US2017/044540		WO2018/023086
517	[redacted]								
518	[redacted]								
519	[redacted]								
520	P C S POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL			NP	APP-Closed	US	08/146496		
521	[redacted]								
522	METHOD AND A SYSTEM FOR MOBILE CONTROLLED HANDOFF AND LINK MAINTENANCE IN SPREAD SPECTRUM COMMUNICATION SYSTEM			CIP	PAT-Closed	US	08/284053	6088590	
523	P C S POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL			CNT	PAT-Closed	US	08/480898	5648955	
524	Optical devices systems and methods for producing a collimated light path			CNT	APP-Closed	US	10/963850		US-2005-0063353-A1
525	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM COMMUNICATION			CNT	PAT-Closed	US	08/473746	5671219	
526	TIME DIVISION MULTIPLE ACCESS BASE STATION SUPPORTING ISDN MESSAGES			CNT	PAT-Closed	US	08/485267	5765264	
527	SPREAD SPECTRUM COMMUNICATION SYSTEM			CNT	PAT-Closed	US	08/485774	5229792	
528	WIRELESS COMMUNICATION SYSTEM AND METHOD			CNT	PAT-Closed	US	08/687651	6161013	
529	P C S POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL			CNT	APP-Closed	US	08/476936		
530	MULTI-MODE TDMA SPREAD SPECTRUM COMMUNICATION SYSTEM			CNT	PAT-Closed	US	08/801529	5787076	
531	WIRELESS COMMUNICATION METHOD AND SYSTEM			CNT	PAT-Closed	US	08/774559	6112080	
532	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL			CNT	MTR-Closed	US	09/652117	6532365	
533	[redacted]								
534	METHOD AND APPARATUS FOR WIRELESS SPREAD SPECTRUM COMMUNICATION WITH PREAMBLE PROCESSING PERIOD			CNT	PAT-Closed	US	10/202756	6947469	US-2002-0196840-A1

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
535	METHOD AND SYSTEM FOR DATA LINK EXPANSION OR CONTRACTION USING SPREAD SPRECTUM TDMA COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Closed	US	08/478384	5818820	
536	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	NP	APP-Closed	CA	2186031		2186031
537	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPA	MTR-Closed	DE	959141359	69534566A	763300
538	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	MTR-Closed	DE	30144430	1347659	1347659
539	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	PAT-Closed	DE	30144414	69536002T	1347658
540	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPA	PAT-Closed	EP	959141359	763300	763300
541	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	APP-Closed	EP	30144430	1347659	1347659
542	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	MTR-Closed	EP	30144422		1347583
543	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	APP-Closed	EP	30144448		1347584
544	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	APP-Closed	EP	30144465		1347660
545	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	PAT-Closed	EP	30144414	1347658	1347658
546	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	APP-Closed	EP	30144406		1367846
547	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	PAT-Closed	FR	30144414	1347658	1347658
548	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPA	MTR-Closed	GB	959141359	763300	763300
549	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	MTR-Closed	GB	30144430	1347659	1347659
550	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	PAT-Closed	GB	30144414	1347658	1347658
551	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	FPR	MTR-Closed	HK	981139582	1013477	1347660
552	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	FPD	PAT-Closed	HK	31073659	1055370	
553	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
554	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
555	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
556	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	FPD	APP-Closed	HK	31073677	1055371	
557	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	FPD	PAT-Closed	HK	31093094		1057143
558	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	NP	APP-Closed	IL	113059	113059	113059
559	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	PAT-Closed	IT	30144411	1347658	
560	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	NP	PAT-Closed	JP	1995-524766	3404045	08-510844
561	METHOD AND SYSTEM FOR MOBILE CONTROLLED HANDOFF AND LINK MAINTENANCE IN SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	MTR-Closed	JP	2002-056914	3746457	2002-325271
562	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	PCT	APP-Closed	KR	10-1996-0705400		10-1997-0702648
563	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPA	MTR-Closed	NL	959141359	763300	763300
564	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	EPD	MTR-Closed	NL	30144414	1347658	1347658
565	PCS POCKET PHONE/MICROCELL COMMUNICATION OVER-AIR PROTOCOL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1995/003500		WO1995/026094
566	METHOD AND SYSTEM FOR TRANSFERRING INFORMATION WITHIN A MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	CIP	PAT-Closed	US	08/532466	6021333	
567	Method and system for tranferring information within a mobile communication system	[redacted]	[redacted]	CNT	PAT-Closed	US	09/494957	6434137	
568	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	CIP	PAT-Closed	US	08/610193	6084535	
569	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
570	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	EPA	APP-Closed	EP	969338573		873681
571	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	EPD	MTR-Closed	EP	30227730		1395078
572	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	FPR	MTR-Closed	HK	981159830		1013605
573	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	ID	P00195862687	IDP000022984	
574	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	DIV	APP-Closed	ID	P00200400463		42948
575	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
576	COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1996/015190		WO1997/013353
577	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CIP	PAT-Closed	US	08/668483	6005856	
578	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	AR	[redacted]		7792
579	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	09/407008	7092372	
580	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPA	MTR-Closed	DE	979267168	908023	908023
581	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPA	PAT-Closed	EP	979267168	908023	908023
582	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPA	MTR-Closed	GB	979267168	908023	908023
583	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	MTR-Closed	HK	991032850	1018597	
584	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	ID	P00199702153		
585	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
586	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPA	MTR-Closed	NL	979267168	908023	908023
587	COMMUNICATION PROTOCOL FOR SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1997/008829		WO1997/049200
588	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
589	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
590	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
591	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
592	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
593	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
594	[redacted]								
595									
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600	INTERFERENCE MEASUREMENTS AND CHANNEL STATE INFORMATION (CSI) FEEDBACK IN A MASSIVE MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) SYSTEM			PCT	APP-Closed	WO	PCT/US2017/038547		WO2017/223201
601	BEAMFORMED MEASUREMENT FOR NEW RADIO (NR)			PSP	APP-Closed	US	62/514516		
602	CONTROL SIGNALING FOR USER EQUIPMENT TRANSMISSION BEAMFORMING			PCT	APP-Closed	WO	PCT/US2017/043998		WO2018/022782
603	SYSTEM AND METHOD FOR CONFIRMATION OF BEAM SWITCHING			PCT	APP-Closed	WO	PCT/US2017/041576		WO2018/013596
604	SYSTEMS AND METHODS FOR UPLINK TRANSMISSION POWER CONTROL			PCT	APP-Closed	WO	PCT/US2017/045780		WO2018/027231
605	[redacted]								
606									
607									
608									
609									
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611									
612									
613	[redacted]								
614									
615	ANTENNA ARRANGEMENT FOR WIRELESS VIRTUAL REALITY HEADSET			PCT	APP-Closed	WO	PCT/US2017/047115		WO2018/035209
616	SYSTEMS METHODS AND DEVICES FOR HANDLING STICKINESS OF UE-SPECIFIC RAN-CN ASSOCIATION			PCT	APP-Closed	WO	PCT/US2017/060231		WO2018/085784
617	UE CONFIGURED TO SUPPORT UP TO TWO HARQ PROCESSES IN NB-IOT			PCT	APP-Closed	WO	PCT/US2017/054510		WO2018/064583
618	MIMO (MULTIPLE INPUT MULTIPLE OUTPUT) LAYER TRANSMISSION FOR NR (NEW RADIO)			PCT	APP-Closed	WO	PCT/US2017/054410		WO2018/084971
619	WIDEBAND CARRIER CONFIGURATION			PCT	APP-Closed	WO	PCT/US2017/057118		WO2018/085045
620	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			CNT	APP-Closed	US	11/276290		US-2006-0135101-A1
621	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			PCT	MTR-Closed	CN	2824458	ZL028244958	100397805
622	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			EPT	MTR-Closed	DE	27751445	602132681	1435144
623	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			EPT	MTR-Closed	EP	27751445	1435144	1435144
624	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			EPT	MTR-Closed	GB	27751445	1435144	1435144
625	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			PCT	MTR-Closed	JP	2003-537220	4131702	2005-506755
626	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			PCT	MTR-Closed	KR	10-2004-7005234	10-0676034	10-2004-0079336
627	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			MP	MTR-Closed	MY	PI20023748	MY-138588-A	
628	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			EPT	MTR-Closed	NL	27751445	1435144	1435144
629	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			PCT	APP-Closed	WO	PCT/IB2002/004383		WO2003/034615
630	INTERFERENCE REDUCTION USING LOW COMPLEXITY ANTENNA ARRAY			PCT	MTR-Closed	SG	200402098-8	103683	103683
631	METHOD FOR DISCOVERY AND ROUTING USING A PRIORI KNOWLEDGE IN THE FORM OF APPLICATION PROGRAMME WITHIN MOBILE AD-HOC NETWORKS			FPR	MTR-Closed	HK	41059941		1064232
632	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK			EPT	APP-Closed	IT	27R81683	1836849	1836849
633	METHOD FOR LOCATION BASED ROUTING WITHIN A MOBILE AD-HOC NETWORK			PCT	APP-Closed	WO	PCT/US2002/033421		WO2003/034684
634	METHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			PCT	MTR-Closed	CA	2421759	2421759	2421759
635	METHOD AND APPARATUS FOR FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			PCT	MTR-Closed	CN	18185274	ZL018185274	1473403
636	gMETHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			EPT	MTR-Closed	EP	19737113	1320941	1320941
637	METHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			FPR	MTR-Closed	HK	31062965	1054136	1054136
638	METHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			PCT	MTR-Closed	IN	335/MUMNP/2003	200660	
639	METHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			EPT	MTR-Closed	NL	19737113	1320941	
640	METHOD AND APPARATUS FOR A FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER			PCT	APP-Closed	WO	PCT/US2001/041088		WO2002/021717
641	Method and apparatus for a fast converging affine projection based echo canceller			PSP	APP-Closed	US	60/231420		
642	NETWORK ECHO CANCELLER FOR INTEGRATED TELECOMMUNICATIONS PROCESSING			PCT	APP-Closed	WO	PCT/US2001/028138		WO2002/021718
643	NETWORK ECHO CANCELLER FOR INTEGRATED TELECOMMUNICATIONS PROCESSING			PSP	APP-Closed	US	60/231521		
644	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT			PCT	MTR-Closed	CA	2461299		2461299
645	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT			EPT	MTR-Closed	GB	27R17497	1830681	1830681
646	SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT			FPR	MTR-Closed	HK	41059861	1063254	1063254
647	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT			PCT	APP-Closed	WO	PCT/US2002/029809		WO2003/028338
648	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT			PCT	MTR-Closed	SG	200401414-8	103569	103569

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
649	A SYSTEM AND METHOD FOR CONTROLLING SIGNAL PROCESSING IN A VOICE OVER PACKET (VOP) ENVIRONMENT	[redacted]	[redacted]	NP	MTR-Closed	TW	91121329	I229530	
650	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
651	Method and apparatus for programming algorithms in a voice signal processor	[redacted]	[redacted]	PSP	APP-Closed	US	60/334847		
652	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
653	FAST CONVERGING AFFINE PROJECTION BASED ECHO CANCELLER FOR SPARSE MULTI-PATH CHANNELS	[redacted]	[redacted]	NP	MTR-Closed	TW	91118539	583851	
654	METHOD AND APPARATUS FOR PRE-PROCESSING SYSTEM FOR ECHO TAIL INDEPENDENT ECHO CANCELLOR	[redacted]	[redacted]	PSP	APP-Closed	US	60/291416		
655	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]	[redacted]	PCT	MTR-Closed	CN	38023075	ZL038023075	100426678
656	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]	[redacted]	PCT	MTR-Closed	JP	2004-520959		
657	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2005-7000299	10-0712795	10-2005-0028014
658	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20032578	MY-135897-A	
659	APPARATUS AND METHOD TO REDUCE QUANTIZATION ERROR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2003/002803	WO / 2004/008317	
660	ADAPTIVELY EXTENDING TUNABLE RANGE OF FREQUENCY IN A CLOSED LOOP	[redacted]	[redacted]	DIV	MTR-Closed	US	10/985511	7119628	US-2005-0083145-A1
661	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00388E+12	ZL200380100423.0	1892607
662	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	DE	37816600	1566017	1566017
663	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	EP	37816600	1566017	1566017
664	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
665	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	FI	37816600	1566017	1566017
666	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	FR	37816600	1566017	1566017
667	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	GB	37816600	1566017	1566017
668	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPR	MTR-Closed	HK	51094304		1076198
669	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
670	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	EPT	MTR-Closed	NL	37816600	1566017	1566017
671	APPARATUS TO SPECULATIVELY IDENTIFY PACKETS FOR TRANSMISSION AND METHOD THEREFOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/034807		WO2004/049639
672	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	PCT	MTR-Closed	CN	38017679	ZL038017679	1606844
673	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	EPT	MTR-Closed	DE	37882388	1529366	1529366
674	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	EPT	MTR-Closed	EP	37882388	1529366	1529366
675	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	EPT	MTR-Closed	GB	37882388	1529366	1529366
676	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	EPR	MTR-Closed	HK	51052787	1074299	
677	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20033085	MY-138910-A	
678	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	EPT	MTR-Closed	NL	37882388	1529366	1529366
679	METHOD AND APPARATUS OF GENERATING A QUALITY INDICATOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/019875		WO2004/017558
680	A METHOD FOR ALLOCATING RESOURCES IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	10/211861	7099682	US-2004-0023660-A1
681	METHOD AND APPARATUS FOR ALLOCATING RESOURCES IN A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	38056283	ZL038056283	1640181
682	COMMON RESOURCE ALLOCATION IN A WIRELESS SYSTEM OR THE LIKE	[redacted]	[redacted]	EPT	MTR-Closed	EP	3766S579		1527652
683	COMMON RESOURCE ALLOCATION IN A WIRELESS SYSTEM OR THE LIKE	[redacted]	[redacted]	EPR	MTR-Closed	HK	51052796		1074314
684	COMMON RESOURCE ALLOCATION IN A WIRELESS SYSTEM OR THE LIKE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/033700		WO2004/014099
685	COMMON RESOURCE ALLOCATION IN A WIRELESS SYSTEM OR THE LIKE	[redacted]	[redacted]	NP	MTR-Closed	TW	92121017	I290000	200421884
686	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS	[redacted]	[redacted]	NP	MTR-Closed	US	10/608544	7197336	US-2004-0266485-A1
687	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS FROM MULTIPLE ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	GB	47541115	1642402	1642402
688	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS	[redacted]	[redacted]	EPR	MTR-Closed	HK	61088472	1088455	1088455
689	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS FROM MULTIPLE ANTENNAS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/017427		WO2005/006590
690	METHOD AND APPARATUS TO COMBINE RADIO FREQUENCY SIGNALS	[redacted]	[redacted]	NP	MTR-Closed	TW	93116884	I251406	200516886
691	TRANSMIT/RECEIVE COMBINER USING SHUNT ADMITTANCE ELEMENTS FOR ISOLATION	[redacted]	[redacted]	CNT	MTR-Closed	US	10/925075	6972637	US-2005-0030122-A1
692	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]	[redacted]	PCT	APP-Closed	JP	2004-564980		2006-512849
693	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2005-7011810		10-2005-0084476
694	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/036308		WO2004/062031
695	WIRELESS COMMUNICATION DEVICE HAVING VARIABLE GAIN DEVICE AND METHOD THEREFOR	[redacted]	[redacted]	USM	PAT-Closed	TW	93205369	M408883	
696	SPATIAL MULTIPLEXING IN A CELLULAR NETWORKSPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0012814-7		PI0012814-7
697	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
698	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	9537390	600383003	1198963
699	SPATIAL MULTIPLEXING IN A CELLULAR NETWORKSPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	9537390	1198963	1198963
700	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	9537390	1198963	1198963
701	A WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	IN	0051/MUM/2002	209818	
702	SPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	MX	PA/a/2002/001046		PA/a/2002/001046
703	SPATIAL MULTIPLEXING IN A CELLULAR NETWORKSPATIAL MULTIPLEXING IN A CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/020706		WO2001/010158

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
704	MODE SELECTION FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS	[redacted]	[redacted]	CNT	MTR-Closed	US	10/884102	7761775	US-2005-0031044-A1
705	MODE SELECTION FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS	[redacted]	[redacted]	CNT	MTR-Closed	US	12/823287	7921349	US-2010-0318861-A1
706	MODE LOOKUP TABLES FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS	[redacted]	[redacted]	CIP	MTR-Closed	US	09/730687	7191381	US-2002-0086686-A1
707	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	38078902	ZL038078902	1647436
708	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	DE	40775892	603384862	1515471
709	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	37457157		1490994
710	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	EP	40775892	1515471	1515471
711	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	ES	40775892	1515471	1515471
712	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	FI	40775892	1515471	1515471
713	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	FR	40775892	1515471	1515471
714	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	ETD	MTR-Closed	GB	40775892	1515471	1515471
715	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-582942		2005-521358
716	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7015600	10-0742448	10-2004-0097260
717	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/003431		WO2003/085876
718	A SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OR WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	SG	200404847-6	107173	107173
719	SYSTEM AND METHOD OF DYNAMICALLY OPTIMIZING A TRANSMISSION MODE OF WIRELESSLY TRANSMITTED INFORMATION	[redacted]	[redacted]	CNT	MTR-Closed	US	12/491834	7920483	US-2009-0262850-A1
720	System and method for adjusting a power level of a transmission signal	[redacted]	[redacted]	CNT	APP-Closed	US	11/006403		US-2005-0135503-A1
721	A SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	EPT	MTR-Closed	FR	37392982	1522153	1522153
722	A SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	EPT	MTR-Closed	GB	37392982	1522153	1522153
723	A SYSTEM AND METHOD FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL	[redacted]	[redacted]	EPT	MTR-Closed	NL	37392982	1522153	1522153
724	A METHOD AND SYSTEM FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL BASED UPON A PEAK TO AVERAGE RATIO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/019962		WO2004/006464
725	A METHOD AND SYSTEM FOR ADJUSTING A POWER LEVEL OF A TRANSMISSION SIGNAL BASED UPON A PEAK TO AVERAGE RATIO	[redacted]	[redacted]	NP	MTR-Closed	TW	92117974	I242344	200407016
726	APPARATUS AND METHOD TO PROVIDE POWER AMPLIFICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/018089		WO2004/114519
727	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR (VCO)	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7006010	10-0848678	10-2006-0056401
728	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR (VCO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/032460		WO2005/034357
729	STRAINED-SILICON VOLTAGE CONTROLLED OSCILLATOR (VCO)	[redacted]	[redacted]	PCT	MTR-Closed	SG	200601876-2	120649	120649
730	PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2007-504185	4315995	2007-529973
731	PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/010179		WO2005/099135
732	PULSE SHAPING SIGNALS FOR ULTRAWIDEBAND COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	TW	94109581	I298873	200605539
733	ADAPTIVE BIT LOADING AND POWER ALLOCATION IN A MULTICARRIER WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00488E+12		1894864
734	ADAPTIVE BIT LOADING AND POWER ALLOCATION IN A MULTICARRIER WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/025476		WO2005/015770
735	LOW POWER DISPLAY REFRESH	[redacted]	[redacted]	NP	APP-Closed	CN	200410083107X		1542602
736	LOW POWER DISPLAY REFRESH	[redacted]	[redacted]	NP	APP-Closed	MY	PI20041225	MY-184583-A	
737	LOW POWER DISPLAY REFRESH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/006877		WO2004/095409
738	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	EPT	APP-Closed	EP	47888052		1665706
739	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	FPR	MTR-Closed	HK	61066726		1084535
740	MODULATION SCHEME FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYSTEMS OR THE LIKE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/030390		WO2005/029805
741	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
742	ADAPTIVE CHANNELIZATION SCHEME FOR HIGH THROUGHPUT MULTICARRIER SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/006737		WO2005/071876
743	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	MTR-Closed	ES	47792262	1652360	1652360
744	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	MTR-Closed	FR	47792262	1652360	1652360
745	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	MTR-Closed	GB	47792262	1652360	1652360
746	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	FPR	MTR-Closed	HK	61060571	1089310	1089310
747	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	EPT	MTR-Closed	IT	47792262	1652360	1652360
748	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20042879	MY-150183-A	
749	TECHNIQUE TO SELECT TRANSMISSION PARAMETERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/024057		WO2005/015815
750	PARALLEL WIRELESS COMMUNICATION APPARATUS METHOD AND SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/041902		WO2005/067218
751	SERVICE DISCOVERY METHOD FOR WIRELESS LOCAL AREA NETWORKS (WLAN)	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00488E+12		1884899
752	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	DE	47944244	6.02004E+12	1690373
753	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	47944244	1690373	1690373
754	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GB	47944244	1690373	1690373
755	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	FPR	MTR-Closed	HK	61101563	1092967	1092967
756	SERVICE DISCOVERY ARCHITECTURE AND METHOD FOR WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/033067		WO2005/039138
757	MULTICARRIER TRANSCEIVER AND METHOD FOR PRECODING SPATIALLY MULTIPLEXED OFDM SIGNALS IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	CNT	APP-Closed	US	13/419024		US-2012-0170672-A1

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
758	[redacted]								
759	[redacted]								
760	COMMUNICATION SYSTEM AND METHOD FOR CHANNEL ESTIMATION AND BEAMFORMING USING A MULTI-ELEMENT ARRAY ANTENNA			PCT	APP-Closed	WO	PCT/US2004/027741		WO2005/024995
761	[redacted]								
762	FREQUENCY PRESCALER APPARATUS METHOD AND SYSTEM			PCT	APP-Closed	WO	PCT/US2004/018292		WO2005/006558
763	FREQUENCY PRESCALER APPARATUS METHOD AND SYSTEM			NP	MTR-Closed	TW	93116678	I321904	200516852
764	DYNAMIC EMI (ELECTROMAGNETIC INTERFERENCE) MANAGEMENT			PCT	APP-Closed	WO	PCT/US2004/035207		WO2005/041453
765	AN APPARATUS AND ASSOCIATED METHODS TO PERFORM INTELLIGENT TRANSMIT POWER CONTROL WITH SUBCARRIER PUNCTURING			PCT	APP-Closed	WO	PCT/US2004/025474		WO2005/015886
766	METHOD AND APPARATUS FOR TRANSMITTING WIRELESS SIGNALS ON MULTIPLE FREQUENCY CHANNELSIN A FREQUENCY AGILE NETWORK			PCT	APP-Closed	WO	PCT/US2004/025025		WO2005/018180
767	[redacted]								
768	APPARATUS AND METHODS FOR COMMUNICATING USING SYMBOL-MODULATED SUBCARRIERS			PCT	APP-Closed	WO	PCT/US2004/025432		WO2005/015769
769	[redacted]								
770	[redacted]								
771	METHOD AND ADAPTIVE BIT INTERLEAVER FOR WIDEBAND SYSTEMS USING ADAPTIVE BIT LOADING			PCT	APP-Closed	WO	PCT/US2004/030142		WO2005/064876
772	[redacted]								
773									
774	MULTICARRIER MIMO TRANSMISSION			PCT	APP-Closed	JP	2006-523250		2007-502072
775	[redacted]								
776	SYSTEMS AND METHODS FOR ADAPTIVE BIT LOADING IN A MULTIPLE ANTENNA ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATION SYSTEM			PCT	APP-Closed	WO	PCT/US2004/025509		WO2005/022681
777	[redacted]								
778	TRANSMITTER AND METHOD FOR SCRAMBLED BIT TRANSMISSION			PCT	MTR-Closed	CN	2.00488E+12	ZL200480039A154	1902847
779	TRANSMITTER AND METHOD THEREON			PCT	APP-Closed	JP	2006-543958		2007-514372
780	TRANSMITTER AND METHOD FOR SCRAMBLED BIT TRANSMISSION			PCT	MTR-Closed	KR	10-2006-7012962	10-0827854	10-2006-0113976
781	TRANSMITTER AND METHOD THEREON			NP	MTR-Closed	MY	PI20041639	MY-136550-A	
782	TRANSMITTER AND METHOD THEREON			PCT	APP-Closed	WO	PCT/US2004/040688		WO2005/067187
783	TRANSMITTER AND METHOD THEREON			NP	MTR-Closed	TW	93112381	I287916	200522540
784	APPARATUS AND METHOD OF MULTI-USER DETECTION			PCT	MTR-Closed	CN	2.00488E+12	ZL200480039646	1902839
785	APPARATUS AND METHOD OF MULTI-USER DETECTION			EPT	MTR-Closed	EP	47552328		1716684
786	APPARATUS AND METHOD OF MULTI-USER DETECTION			FPR	MTR-Closed	HK	61133592		1094284
787	APPARATUS AND METHOD OF MULTI-USER DETECTION			PCT	APP-Closed	WO	PCT/US2004/018922		WO2005/069502
788	METHOD OF DETECTING A SYMBOL COMMUNICATION DEVICE RECEIVER WIRLESS COMMUNICATION DEVICE AND ARTICLE COMPRISING A STORAGE MEDIUM HAVING STORED THEREON INSTRUCTIONS			NP	MTR-Closed	TW	93117172	I242937	200522550
789	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			NP	APP-Closed	US	10/737839		US-2005-0129101-A1
790	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			PCT	APP-Closed	CN	2.00488E+12		1849772
791	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			EPT	MTR-Closed	DE	47805320	6.02004E+12	1661287
792	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			EPT	MTR-Closed	EP	47805320	1661287	1661287
793	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			EPT	MTR-Closed	ES	47805320	1661287	1661287
794	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			EPT	MTR-Closed	FR	47805320	1661287	1661287
795	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			EPT	MTR-Closed	GB	47805320	1661287	1661287
796	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			PCT	APP-Closed	JP	2006-523269		2007-502079
797	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			PCT	APP-Closed	KR	10-2006-7002685		10-2006-0032649
798	SDMA COMMUNICATIONS WITH NON-IMMEDIATE BLOCK ACKNOWLEDGMENT			PCT	APP-Closed	WO	PCT/US2004/025710		WO2005/015812
799	[redacted]								
800	ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS			PCT	APP-Closed	WO	PCT/US2004/025440		WO2005/015810
801	TRANSMISSION OF DATA WITH FEEDBACK TO THE TRANSMITTER IN A WIRELESS LOCAL AREA NETWORK OR THE LIKE			EPT	APP-Closed	EP	48120711		1748574
802	TRANSMISSION OF DATA WITH FEEDBACK TO THE TRANSMITTER IN A WIRELESS LOCAL AREA NETWORK OR THE LIKE			ETD	APP-Closed	EP	70243191		1916793
803	TRANSMISSION OF DATA WITH FEEDBACK TO THE TRANSMITTER IN A WIRELESS LOCAL AREA NETWORK OR THE LIKE			ETD	APP-Closed	EP	90152636		2173050
804	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
805	TRANSMISSION OF DATA WITH FEEDBACK TO THE TRANSMITTER IN A WIRELESS LOCAL AREA NETWORK OR THE LIKE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/039478		WO2005/062535
806	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	PPR	MTR-Closed	HK	61066058		1089567
807	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20043213	MY-137109-A	
808	METHOD AND APPARATUS FOR VARYING LENGTHS OF LOW DENSITY PARITY CHECK CODEWORDS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/025473		WO2005/015748
809	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0058E+12	ZL200580030421	101112061
810	MULTICARRIER RECEIVERS AND METHODS FOR SEPARATING TRANSMITTED SIGNALS IN A MULTIPLE ANTENNA SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/031206		WO2006/069572
811	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	EPT	APP-Closed	EP	47887005		1665616
812	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-526343	4459960	2007-506303
813	MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT SPACE-FREQUENCY BLOCK CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/029668		WO2005/029758
814	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/008934		WO2005/071912
815	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0048E+12	ZL200680026464.8	1883151
816	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-526357	4396993	2007-506304
817	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7005137	10-0872193	10-2006-0039452
818	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/029768		WO2005/029759
819	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	SG	200601649-7	120503	120503
820	MULTICARRIER TRANSMITTER MULTICARRIER RECEIVER AND METHODS FOR COMMUNICATING MULTIPLE SPATIAL SIGNAL STREAMS	[redacted]	[redacted]	NP	MTR-Closed	TW	93127730	I278317	200520483
821	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	CNT	APP-Closed	US	14/220442		US-2014-0328187-A1
822	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0058E+12	ZL200580031588	1010321127
823	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12	1.12005E+11	1.12005E+11
824	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7059526		2433809
825	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/037167		WO2006/044744
826	RESPONSE SCHEDULING FOR MULTIPLE RECEIVERS	[redacted]	[redacted]	NP	MTR-Closed	TW	94136159	I318352	200627875
827	COMMUNICATION DEVICESYSTEM AND METHOD FOR VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0048E+12	ZL200480026346	1853375
828	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	DE	47804117	6.02004E+12	1661321
829	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	EP	47804117	1661321	1661321
830	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	ES	47804117	1661321	1661321
831	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	FR	47804117	1661321	1661321
832	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	GB	47804117	1661321	1661321
833	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	EPT	MTR-Closed	IT	47804117	5.02012E+14	1661321
834	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-523255	4327851	2007-507133
835	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7003741	10-0825585	10-2006-0040732
836	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
837	VARIABLE SDMA ACK TIMEOUT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/025569		WO2005/015843
838	CONVEYING ADDITIONAL SIGNALING INFORMATION IN AN OFDM-BASED WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0058E+12	ZL200580079154	1930842
839	SYSTEMS AND METHODS TO CONVEY ADDITIONAL SIGNALING INFORMATION IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	57115735	6.02005E+12	1714453
840	SYSTEMS AND METHODS TO CONVEY ADDITIONAL SIGNALING INFORMATION IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	57115735	1714453	1714453
841	SYSTEMS AND METHODS TO CONVEY ADDITIONAL SIGNALING INFORMATION IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	57115735	1714453	1714453
842	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
843	SYSTEMS AND METHODS TO CONVEY ADDITIONAL SIGNALING INFORMATION IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/001528		WO2005/069573
844	CHANNEL SPECIFICATION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/001527		WO2005/069667
845	ACCESS POINT HAVING AT LEAST ONE OR MORE CONFIGURABLE RADIOS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0058E+12		1930823
846	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
847	ACCESS POINT HAVING AT LEAST ONE OR MORE CONFIGURABLE RADIOS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20051358	MY-143918-A	
848	ACCESS POINT HAVING AT LEAST ONE OR MORE CONFIGURABLE RADIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/009659		WO2005/099181
849	METHOD ARTICLE AND APPARATUS FOR RADIO COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	TW	94109313	I324470	200539638
850	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
851	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
852	METHOD AND APPARATUS TO SELECT CODING MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/009350		WO2005/104419
853	METHOD AND APPARATUS FOR DECODING FORWARD ERROR CORRECTION CODES	[redacted]	[redacted]	NP	MTR-Closed	TW	94108631	I303521	200534600
854	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0058E+12	ZL200580038264	1918813
855	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	PPR	MTR-Closed	HK	71040557	1097965	1097965
856	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20050913	MY-139415-A	
857	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/007287		WO2005/088861
858	ADAPTIVE TRANSMIT POWER CONTROL IN WIRELESS DEVICES	[redacted]	[redacted]	NP	MTR-Closed	TW	94113109	I265682	200638697
859	POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/022512		WO2006/012308

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
860	POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN	[redacted]	[redacted]	PCT	MTR-Closed	SG	200608276-2	117933	117933
861	POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN	[redacted]	[redacted]	NP	MTR-Closed	TW	94121415	I306679	200623611
862	MULTI-THRESHOLD RELIABILITY DECODING SCHEME OF LDPC CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2004/000123		WO2005/096509
863	MULTI-THRESHOLD MESSAGE PASSING DECODING OF LOW-DENSITY PARITY CHECK CODES	[redacted]	[redacted]	PCT	APP-Closed	RU	2006138223	2337478	2006138223
864	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	10/815133	7668068	US-2005-0166131-A1
865	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	57113771	6.02605E+12	1712027
866	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	57113771	1712027	1712027
867	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	57113771	1712027	1712027
868	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	57113771	1712027	1712027
869	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	57113771	1712027	1712027
870	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/000948		WO2005/069527
871	METHOD AND APPARATUS FOR IMPLEMENTING A LOW DENSITY PARITY CHECK CODE IN A WIRELESS SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	94100727	I367252	200533088
872	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00E+12	ZL200580030448.2	101036317
873	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12E+12	1.12005E+11	1.12005E+11
874	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	GB	7035025	2433182	2433182
875	A SEQUENTIAL METHOD FOR CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/031473		WO2006/039058
876	METHOD AND APPARATUS FOR PERFORMING SEQUENTIAL CLOSED LOOP MIMO	[redacted]	[redacted]	NP	MTR-Closed	TW	94130382	I304690	200623693
877	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/017773		WO2005/122515
878	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
879	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
880	METHOD FOR SIGNALING INFORMATION BY MODIFYING MODULATION CONSTELLATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/000736		WO2005/071898
881	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
882	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20052092	MY-138725-A	
883	METHOD AND APPARATUS TO ENABLE MULTIPLE RECEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/016049		WO2006/121432
884	WIRELESS APPARATUS HAVING MULTIPLE COORDINATED TRANSCEIVERS FOR MULTIPLE WIRELESS COMMUNICATION PROTOCOLS	[redacted]	[redacted]	NP	PAT-Closed	US	09/408725	6894988	
885	WIRELESS APPARATUS HAVING MULTIPLE TRANSCEIVERS FOR MULTIPLE WIRELESS COMMUNICATIONS PROTOCOLS	[redacted]	[redacted]	EPT	MTR-Closed	DE	9670894	600410684	1216544
886	A WIRELESS APPARATUS HAVING MULTIPLE TRANSCEIVERS FOR MULTIPLE WIRELESS COMMUNICATIONS PROTOCOLS	[redacted]	[redacted]	EPT	MTR-Closed	EP	9670894	1216544	1216544
887	WIRELESS APPARATUS HAVING MULTIPLE TRANSCEIVERS FOR MULTIPLE WIRELESS COMMUNICATIONS PROTOCOLS	[redacted]	[redacted]	EPT	MTR-Closed	GB	9670894	1216544	1216544
888	WIRELESS APPARATUS HAVING MULTIPLE TRANSCEIVERS FOR MULTIPLE WIRELESS COMMUNICATIONS PROTOCOLS	[redacted]	[redacted]	NP	APP-Closed	JP	2001-527512		
889	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
890	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING QUALITY OF SERVICE CONSIDERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	9655192	600411419	1216542
891	MULTI-PROTOCOL WIRELESS COMMUNICATION METHODS AND APPARATUSES INCLUDING QUALITY OF SERVICE CONSIDERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	9655192	1216542	1216542
892	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING QUALITY OF SERVICE CONSIDERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	9655192	1216542	1216542
893	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING QUALITY OF SERVICE CONSIDERATIONS	[redacted]	[redacted]	NP	APP-Closed	JP	2001-527514		2003-515985
894	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES INCLUDING PROACTIVE REDUCTION OF INTERFERENCE	[redacted]	[redacted]	EPT	MTR-Closed	DE	9670910	600409945	1216545
895	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUS INCLUDING PROACTIVE REDUCTION OF INTERFERENCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	9670910	1216545	1216545
896	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUS INCLUDING PROACTIVE REDUCTION OF INTERFERENCE	[redacted]	[redacted]	EPT	MTR-Closed	GB	9670910	1216545	1216545
897	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUS INCLUDING PROACTIVE REDUCTION OF INTERFERENCE	[redacted]	[redacted]	NP	APP-Closed	JP	2001-527515		2003-510969
898	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	EPT	MTR-Closed	DE	9670902	600488217	1222777
899	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	EPT	MTR-Closed	EP	9670902	1222777	1222777
900	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	EPT	MTR-Closed	GB	9670902	1222777	1222777
901	MULTIPLE WIRELESS COMMUNICATION PROTOCOL METHODS AND APPARATUSES	[redacted]	[redacted]	NP	APP-Closed	JP	2001-527513		
902	WIRELESS APPARATUS INTERFERENCE AVOIDANCE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	9930645	600386996	1243099

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
903	WIRELESS APPARATUS INTERFERENCE AVOIDANCE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	9930845	1243099	1243099
904	WIRELESS APPARATUS INTERFERENCE AVOIDANCE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	9930845	1243099	1243099
905	WIRELESS APPARATUS INTERFERENCE AVOIDANCE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	JP	2001-537173	4740501	
906	GFSK RECEIVER	[redacted]	[redacted]	NP	APP-Closed	US	09/858458		US-2003-0043947-A1
907	USING THE DYNAMIC BEACON TO ENHANCE POWER SAVING CAPABILITIES FOR LOW POWER UWB DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/047272		WO2006/071941
908	TRANSMITTING AND PROTECTING LONG FRAMES IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00588E+12	ZL200580046613	101223731
909	METHOD FOR TRANSMITTING AND PROTECTING VERY LONG FRAMES IN WLAN	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12		1.12005E+11
910	METHOD FOR TRANSMITTING AND PROTECTING VERY LONG FRAMES IN WLAN	[redacted]	[redacted]	PCT	MTR-Closed	GB	7116445	2435777	2435777
911	METHOD FOR TRANSMITTING AND PROTECTING VERY LONG FRAMES IN WLAN	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20055687	MY-141148-A	
912	METHOD FOR TRANSMITTING AND PROTECTING VERY LONG FRAMES IN WLAN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/046374		WO2006/071679
913	TRANSMITTING AND PROTECTING LONG FRAMES IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	94147005	I305097	200637276
914	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	US	10/952445	7907910	US-2006-0125080-A1
915	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00588E+12	ZL200580025561	1983899
916	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12	1.12005E+11	1.12005E+11
917	METHOD AND APPARATUS TO VARY POWER LEVEL OF TRAINING SIGNAL	[redacted]	[redacted]	PCT	MTR-Closed	GB	7055511	2431075	2431075
918	IMPROVED DOWNLINK CHANNEL ESTIMATION THROUGH TDD RECIPROCITY	[redacted]	[redacted]	EPR	MTR-Closed	HK	71038533	1096209	1096209
919	IMPROVED DOWNLINK CHANNEL ESTIMATION THROUGH TDD RECIPROCITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/039953		WO2006/023127
920	IMPROVED DOWNLINK CHANNEL ESTIMATION THROUGH TDD RECIPROCITY	[redacted]	[redacted]	NP	MTR-Closed	TW	94122870	I291815	200616381
921	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/031979		WO2006/029261
922	Method and apparatus to provide low cost transmit beamforming for network devices	[redacted]	[redacted]	CNT	APP-Closed	US	12/924781		US-2011-0028108-A1
923	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	CNT	APP-Closed	US	12/386748		US-2009-0207928-A1
924	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00588E+12	ZL200580045396O	101095327
925	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12	1.12005E+11	1.12005E+11
926	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	PCT	MTR-Closed	GB	7128127	2437858	2437858
927	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	PCT	MTR-Closed	JP	2007-549697	4527154	2008-527805
928	TRAINING SYMBOL FORMAT FOR MIMO OFDM SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2007-7017508	10-0945963	10-2007-0094018
929	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20055957	MY-141257-A	
930	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/043685		WO2006/072103
931	TRAINING SYMBOL FORMAT FOR ADAPTIVELY POWER LOADED MIMO	[redacted]	[redacted]	NP	MTR-Closed	TW	94147318	I306702	200635254
932	CALIBRATION IN MIMO SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00588E+12	ZL200580030257O	101015179
933	MUTUAL CALIBRATION FOR MIMO IMPLICIT FEEDBACK	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12		1.12005E+11
934	CALIBRATION IN MIMO SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7003866	2432491	2432491
935	MUTUAL CALIBRATION FOR MIMO IMPLICIT FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/031681		WO2006/031506
936	CALIBRATION IN MIMO SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	TW	94129087	I305457	200625886
937	INTERPOLATION TECHNIQUE AND QUANTIZATION BIT ALLOCATION FOR 802.11N EXPLICIT FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/031585		WO2006/031485
938	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
939	DISTRIBUTED VOICE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	DE	1.12005E+12		1.12005E+11
940	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
941	DISTRIBUTED VOICE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/047879		WO2006/072099
942	METHOD AND SYSTEM OF FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	200580033588X	ZL200580033588X	101044782
943	METHOD AND SYSTEM OF FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12005E+12	1.12005E+11	1.12005E+11
944	METHOD AND SYSTEM OF FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7059975	2434061	2434061
945	METHOD AND SYSTEM OF FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20055150	MY-142503-A	
946	METHOD AND SYSTEM OF FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/041561		WO2006/057878
947	METHOD AND SYSTEM TO SUPPORT FAST HAND-OVER OF MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	94140438	I303531	200637402
948	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	CNT	APP-Closed	US	12/354274		US-2009-0121943-A1
949	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00688E+12	ZL200680036479X	101133516
950	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2008-504519	4928537	2008-535272
951	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2007-7024870	10-1062545	10-2007-0118275
952	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/012388		WO2006/105510
953	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	SG	200705877-6	134456	134456
954	ANTENNA SYSTEM USING COMPLEMENTARY METAL OXIDE SEMICONDUCTOR TECHNIQUES	[redacted]	[redacted]	NP	MTR-Closed	TW	95110996	I326135	200642161
955	OFDMA BASE STATION SUPPORTING HETEROGENEOUS SUBSCRIBERS USING COMMON PREAMBLE AND SHARED RANGING SLOT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2005/000343		WO2006/062438
956	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00688E+12	ZL200680039132	101111047
957	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12006E+12		1.12006E+11

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
958	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7130362	2437200	2437200
959	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/003483		WO2006/083897
960	METHOD AND SYSTEM OF NETWORK MANAGEMENT SOFTWARE ARCHITECTURES FOR MOBILE BROADBAND WIRELESS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	95103737	I309935	200704004
961	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0068E+12		101165715
962	TECHNIQUES TO MANAGE CHANNEL PREDICTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/000684		WO2006/078498
963	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]	[redacted]	CNT	APP-Closed	US	13/801885		US-2013-0202056-A1
964	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]	[redacted]	CNT	APP-Closed	US	13/801912		US-2013-0195089-A1
965	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]	[redacted]	DIV	APP-Closed	CN	2.0131E+12		103095352
966	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
967	CODEBOOK GENERATION FOR 802.16E WIMAX CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	USA	PAT-Closed	DE	2.02006E+12	2.02008E+11	
968	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]	[redacted]	FPD	APP-Closed	HK	131123844		1185190
969	CODEBOOK GENERATION SYSTEM AND ASSOCIATED METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/000373		WO2006/076213
970	APPARATUS AND SYSTEM TO PROVIDE WIRELESS DATA SERVICES THROUGH A WIRELESS ACCESS INTEGRATED NODE	[redacted]	[redacted]	NP	APP-Closed	US	09/851681		US-2001-0055298-A1
971	Apparatus and system to provide wireless data services through a wireless access integrated node	[redacted]	[redacted]	DIV	APP-Closed	US	11/122480		US-2005-0197155-A1
972	APPARATUS AND SYSTEM TO PROVIDE WIRELESS DATA SERVICES THROUGH A WIRELESS ACCESS INTEGRATED NODE	[redacted]	[redacted]	EPA	MTR-Closed	EP	19312897		1305681
973	APPARATUS AND SYSTEM TO PROVIDE WIRELESS DATA SERVICES THROUGH A WIRELESS ACCESS INTEGRATED NODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/015153		WO2001/086383
974	WIRELESS COMMUNICATION DEVICE AND METHOD FOR COORDINATED CHANNEL ACCESS WITH REDUCED LATENCY IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/025305		WO2007/002805
975	WIRELESS COMMUNICATION DEVICE AND METHOD FOR REDUCING CARRIER FREQUENCY OFFSETS OVER A SIMULTANEOUS MULTI-USER UPLINK IN A MULTICARRIER COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	MTR-Closed	US	12/190009	7693151	US-2008-0317149-A1
976	METHOD AND DEVICE FOR CONSTRUCTING AND USING SHORTENED EG-LDPC CODES	[redacted]	[redacted]	PCT	MTR-Closed	CN	200580051512X	ZL200580051512X	101258684
977	CONSTRUCTION AND USE OF SHORTENED EG-LDPC CODES	[redacted]	[redacted]	PCT	MTR-Closed	GB	8020810	2442418	2442418
978	CONSTRUCTION AND USE OF SHORTENED EG-LDPC CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2005/000461		WO2007/030030
979	SCALABLE SYSTEM TO ADAPTIVELY TRANSMIT AND RECEIVE INCLUDING ADAPTIVE ANTENNA SIGNAL AND BACK-END PROCESSORS	[redacted]	[redacted]	CNT	MTR-Closed	US	12/758546	8014461	US-2010-0202550-A1
980	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0068E+12	ZL200680002874	101019175
983	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12006E+12		1.12006E+11
982	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7130810	2438532	2438532
983	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/038824		WO2006/096880
984	BROADBAND MULTICARRIER TRANSMITTER WITH SUBCHANNEL FREQUENCY DIVERSITY FOR TRANSMITTING A PLURALITY OF SPATIAL STREAMS	[redacted]	[redacted]	NP	MTR-Closed	TW	95107407	I337028	200644535
985	MULTI-USER MIMO RECEIVER AND METHOD FOR DECODING SIMULTANEOUS UPLINK TRANSMISSIONS FROM MOBILE STATIONS	[redacted]	[redacted]	CNT	MTR-Closed	US	12/251260	8498346	US-2009-0041148-A1
986	MULTI-CARRIER RECEIVER MULTI-CARRIER COMMUNICATION METHOD AND APPARATUS AND RECEIVER SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0068E+12	ZL200680212899	101199172
987	MULTICARRIER RECEIVER AND METHOD FOR CARRIER FREQUENCY OFFSET CORRECTION AND CHANNEL ESTIMATION FOR RECEIPT OF SIMULTANEOUS TRANSMISSIONS OVER A MULTI-USER UPLINK	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12006E+12		1.12006E+11
988	INTERCARRIER INTERFERENCE CANCELLATION FOR A MULTI-USER SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	GB	7247539	2441280	2441280
989	MULTICARRIER RECEIVER AND METHOD FOR CARRIER FREQUENCY OFFSET CORRECTION AND CHANNEL ESTIMATION FOR RECEIPT OF SIMULTANEOUS TRANSMISSIONS OVER A MULTI-USER UPLINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/025777		WO2007/002924
990	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
991	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0068E+12	ZL200680032497	101208981
992	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12006E+12		1.12006E+11
993	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	GB	7245376	2441471	2441471
988	SYSTEMS AND METHODS FOR NEGOTIATING SECURITY PARAMETERS FOR PROTECTING MANAGEMENT FRAMES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/017565		WO2006/124347
995	ORDERED AND DUPLICATE-FREE DELIVERY OF WIRELESS DATA FRAMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/016648		WO2006/124260
996	DEVICE SYSTEM AND METHOD OF MULTIPLE ACCESS TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/020822		WO2006/128130
997	DEVICE SYSTEM AND METHOD OF MULTIPLE ACCESS TRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	TW	95118601	I331469	200708019
998	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	MTR-Closed	US	12/583953	8010780	US-2009-0327694-A1
999	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/023682		WO2006/138688
1000	METHODS AND APPARATUS FOR PROVIDING INTEGRITY PROTECTION FOR MANAGEMENT AND CONTROL TRAFFIC OF WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	95121674	I341118	200709633
1001	SYSTEM AND METHOD FOR AUTOMATICALLY CONFIGURING AND INTERGRATING A RADIO BASE STATION INTO AN EXISTING WIRELESS CELLULAR COMMUNICATION NETWORK WITH FULL BI-DIRECTIONAL ROAMING AND HANDOVER CAPABILITY	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0048E+12	ZL200480028586X	1854979

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1002	SYSTEM AND METHOD FOR AUTOMATICALLY CONFIGURING AND INTERGRATING A RADIO BASE STATION INTO AN EXISTING WIRELESS CELLULAR COMMUNICATION NETWORK WITH FULL BI-DIRECTIONAL ROAMING AND HANDOVER CAPABILITY	[redacted]	[redacted]	EPT	MTR-Closed	EP	47803408		1861413
1003	SYSTEM AND METHOD FOR AUTOMATICALLY CONFIGURING AND INTERGRATING A RADIO BASE STATION INTO AN EXISTING WIRELESS CELLULAR COMMUNICATION NETWORK WITH FULL BI-DIRECTIONAL ROAMING AND HANDOVER CAPABILITY	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2006-7002490		10-2006-0095837
1004	SYSTEM AND METHOD FOR AUTOMATICALLY CONFIGURING AND INTERGRATING A RADIO BASE STATION INTO AN EXISTING WIRELESS CELLULAR COMMUNICATION NETWORK WITH FULL BI-DIRECTIONAL ROAMING AND HANDOVER CAPABILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/025487		WO2005/015917
1005	System and method for automatically configuring and integrating a radio base station into an existing wireless cellular communication network with full bi-directional roaming and handover capability	[redacted]	[redacted]	PSP	APP-Closed	US	60/492825		
1006	METHOD AND SCHEME FOR SPACE-TIME CODED COCHANNEL INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	MTR-Closed	GB	8020828	2442675	2442675
1007	SYSTEMS AND TECHNIQUES FOR SPACE-TIME CODED COCHANNEL INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2008-7010170	10-0991577	10-2008-0058407
1008	METHOD AND SCHEME FOR SPACE-TIME CODED COCHANNEL INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2005/000490		WO2007/037714
1009	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00688E+12	ZL200680029958?	101243679
1010	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12006E+12	1.12006E+11	1.12006E+11
1011	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	GB	8020745	2443579	2443579
1012	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2008-526966	4724751	2009-505569
1013	WIRELESS COMMUNICATION DEVICE AND METHODS FOR PROTECTING BROADCASTED MANAGEMENT CONTROL MESSAGES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/030184		WO2007/024434
1014	LOW COST SVD BEAMFORMING USING EXISTING MMSE CIRCUIT	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00788E+12	ZL200780032547	101375527
1015	LOW COST SVD BEAMFORMING USING EXISTING MMSE CIRCUIT	[redacted]	[redacted]	EPT	MTR-Closed	EP	7769787?		1985035
1016	LOW COST SVD BEAMFORMING USING EXISTING MMSE CIRCUIT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/009911		WO2007/084405
1017	SINGULAR VALUE DECOMPOSITION BEAMFORMING FOR A MULTIPLE-INPUT-MUTIPLE-OUTPUT	[redacted]	[redacted]	NP	MTR-Closed	TW	96101622	I354463	200733606
1018	METHOD OF REVERSE DIRECTION CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/064730		WO2007/117947
1019	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	NP	APP-Closed	US	11/477244		US-2008-0013948-A1
1020	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00788E+12	ZL200780046739	101479957
1021	CALIBRATION SYSTEMS AND TECHNIQUES FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/072324		WO2008/003022
1022	APPARATUS SYSTEM METHOD AND COMPUTER PROGRAM PRODUCT FOR CALIBRATION FOR DISTRIBUTED BEAMFORMING	[redacted]	[redacted]	NP	MTR-Closed	TW	96123459	I400936	200814606
1023	SLEEP-MODE WIRELESS CELL RESELECTION APPARATUS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/041416		WO2007/048056
1024	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1025	COMMUNICATION WITHIN A WIRELESS NETWORK USING MULTIPLE FREQUENCY BANDS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/042335		WO2007/051033
1026	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1027	GENERALIZED MULTI-THRESHOLD DECODER FOR LOW-DENSITY PARITY CHECK CODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2005/000668		WO2007/075098
1028	IMPROVED UPLINK THROUGHPUT FOR WIRELESS NETWORK INTERFACES	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00688E+12		101278525
1029	A MECHANISM FOR ENHANCING UPLINK THROUGHPUT ON THE WIMAX AIR INTERFACE	[redacted]	[redacted]	EPT	MTR-Closed	DE	68274745	6.02006E+12	1943778
1030	IMPROVED UPLINK THROUGHPUT FOR WIRELESS NETWORK INTERFACES	[redacted]	[redacted]	EPT	MTR-Closed	EP	68274745	1943778	1943778
1031	A MECHANISM FOR ENHANCING UPLINK THROUGHPUT ON THE WIMAX AIR INTERFACE	[redacted]	[redacted]	EPT	MTR-Closed	GB	68274745	1943778	1943778
1032	IMPROVED UPLINK THROUGHPUT FOR WIRELESS NETWORK INTERFACES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2008-540092	4855476	2009-515483
1033	A MECHANISM FOR ENHANCING UPLINK THROUGHPUT ON THE WIMAX AIR INTERFACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/043026		WO2007/056182
1034	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	AT	68372366	1946495	1946495
1035	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00688E+12		101283545
1036	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	68372366	6.02006E+12	1946495
1037	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	68372366	1946495	1946495
1038	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	68372366	1946495	1946495
1039	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	68372366	1946495	1946495
1040	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	68372366	1946495	1946495
1041	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	68372366	1946495	1946495
1042	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GR	68372366	1946495	1946495
1043	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	HU	68372366	1946495	1946495

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1048	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	68372366	1946495	1946495
1045	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/043832		WO2007/056515
1046	TECHNIQUES FOR LOCATION MANAGEMENT AND PAGING IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SK	68372366	1946495	1946495
1047	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1048	MULTIPLE INPUT MULTIPLE OUTPUT WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/046628		WO2007/067686
1049	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	CNT	MTR-Closed	US	11/645789	8243749	US-2007-0195811-A1
1050	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0068E+12		101361308
1051	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	EPT	MTR-Closed	EP	68385830		1955469
1052	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	PCT	APP-Closed	JP	2008-535805		2009-512363
1053	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	PCD	APP-Closed	JP	2011-254472		2012-100277
1054	WIRELESS COMMUNICATION SYSTEM ASSOCIATED METHODS AND DATA STRUCTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/045698		WO2007/064710
1055	PURGING OF AUTHENTICATION KEY CONTEXTS BY BASE STATIONS ON HANDOFF	[redacted]	[redacted]	NP	MTR-Closed	US	11/329912	7688121	US-2007-0160211-A1
1056	METHOD AND APPARATUSES FORPURGING OF AUTHENTICATION KEY CONTEXTS BY BASE STATIONS ON HANDOFF	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/000808		WO2007/082058
1057	FIXED-POINT SNR DESIGN SCHEME WITH REDUCED COMPLEXITY FOR WIMAX SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	CN	2.0071E+12	ZL200710101671.7	101188402
1058	SIGNAL-TO-NOISE RATIO (SNR) DETERMINATION IN THE TIME DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/006370		WO2008/005073
1059	SIGNAL-TO-NOISE RATIO (SNR) DETERMINATION IN THE TIME DOMAIN	[redacted]	[redacted]	NP	MTR-Closed	TW	96107643	I357230	200838176
1060	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	AT	78120490	2033330	2033330
1061	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	BE	78120490	2033330	2033330
1062	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	CH	78120490	2033330	2033330
1063	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	DE	78120490	2033330	2033330
1064	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	ES	78120490	2033330	2033330
1065	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	FR	78120490	2033330	2033330
1066	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	GB	78120490	2033330	2033330
1067	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	GR	78120490	2033330	2033330
1068	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	HU	78120490	2033330	2033330
1069	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	IE	78120490	2033330	2033330
1070	RADIO RECEIVER AND A METHOD THEREOF	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/017608		WO2007/146742
1071	WCDMA RADIO RECEIVER ARCHITECTURE WITH LOW DYNAMIC RANGE SIGMA DELTA ADC	[redacted]	[redacted]	EPT	MTR-Closed	SK	78120490	2033330	2033330
1072	DIFFERENTIAL AMPLIFIER WITH TWO LONG-TAILED PAIRS OF TRANSISTORS	[redacted]	[redacted]	EPA	MTR-Closed	EP	3020237	1039629	1039629
1073	DIFFERENTIAL AMPLIFIER WITH TWO LONG-TAILED PAIRS OF TRANSISTORS	[redacted]	[redacted]	EPA	MTR-Closed	GB	3020237	1039629	1039629
1074	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1075	IMPROVEMENTS IN OR RELATING TO DEMODULATOR ALIGNMENT CORRECTION IN TUNERS	[redacted]	[redacted]	NP	MTR-Closed	GB	98269343	2344710	2344710
1076	RADIO FREQUENCY TUNER	[redacted]	[redacted]	EPA	MTR-Closed	EP	13101095		1215820
1077	CONTROLLABLE ATTENUATOR	[redacted]	[redacted]	NP	MTR-Closed	GB	1211408	2379567	2379567
1078	RADIO FREQUENCY TUNER FRONT END AND TUNER	[redacted]	[redacted]	EPA	APP-Closed	EP	21012744		1296456
1079	AMPLIFIER AND TUNER	[redacted]	[redacted]	NP	MTR-Closed	GB	2056592	2369508	2369508
1080	DIGITAL TELEVISION BROADCAST RECEIVER	[redacted]	[redacted]	EPA	MTR-Closed	EP	31035736		1414238
1081	MIXER CIRCUIT OFFSET COMPENSATION	[redacted]	[redacted]	NP	MTR-Closed	GB	3090438	2400992	2400992
1082	A LINE BASED OSD COMPOSITION SYSTEM SUITABLE FOR DIGITAL TV SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	GB	3098100	2401271	2401271
1083	VARIABLE CAPACITANCE CIRCUIT ARRANGEMENT	[redacted]	[redacted]	NP	MTR-Closed	US	10/989896	7187247	US-2005-0128008-A1
1084	VARIABLE CAPACITANCE CIRCUIT ARRANGEMENT	[redacted]	[redacted]	DIV	MTR-Closed	US	11/545959	7358825	US-2007-0030087-A1
1085	PARALLEL VARACTOR STRUCTURE FOR IMPROVED LINEARITY OF C/V RESPONSE	[redacted]	[redacted]	NP	MTR-Closed	GB	3272853	2408401	2408401
1086	A VARACTOR CIRCUIT WITH A LINEARISED CAPACITANCE VS CONTROL VOLTAGE CHARACTERISTIC	[redacted]	[redacted]	NP	MTR-Closed	GB	3272846	2408400	2408400
1087	COOPERATIVE CHANNEL CODING BETWEEN CARRIERS IN A GERAN SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/008735		WO2007/117683
1088	DOWNLINK CHANNEL PARAMETERS DETERMINATION FOR A MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO) SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/067889		WO2007/130946
1089	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1090	PROVIDING CQI FEEDBACK WITH COMMON CODE RATE TO A TRANSMITTER STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/067915		WO2007/130963
1091	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1092	SYSTEM AND METHODS FOR FRAME TUNNELLING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/068592		WO2007/134124
1093	QUALITY OF SERVICE RESOURCE NEGOTIATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/068478		WO2007/134054
1094	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1095	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1096	WIRELESS ACCESS NETWORK AND METHOD FORHANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00788E+12	ZL200780017684	101601205
1097	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	EPT	MTR-Closed	DE	77622124	6.02007E+12	2022194
1098	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1099	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	EPT	MTR-Closed	EP	77622124	2022194	2022194
1100	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1101	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1102	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	EPT	MTR-Closed	FR	77622124	2022194	2022194
1103	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	EPT	MTR-Closed	GB	77622124	2022194	2022194
1104	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1105	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1106	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1107	WIRELESS ACCESS NETWORK AND METHOD FOR HANDOVER OF MOBILE TERMINALS IN IDLE MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/069038		WO2007/137069
1108	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1109	BASE STATION AND METHOD FOR RESOURCE ALLOCATION	[redacted]	[redacted]	ETD	MTR-Closed	EP	161895826		3125630
1110	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	MTR-Closed	HU	77588143	1997251	1997251
1111	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/064302		WO2007/109610
1112	WIRELESS ACCESS NETWORK AND METHOD FOR ALLOCATING TIME AND FREQUENCY RESOURCES	[redacted]	[redacted]	EPT	MTR-Closed	SK	77588143	1997251	1997251
1113	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1114	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	77587822	6.02007E+12	1999862
1115	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	77587822	1999862	1999862
1116	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	77587822	1999862	1999862
1117	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/064269		WO2007/112225
1118	MIMO RECEIVER AND METHOD FOR BEAMFORMING USING CORDIC OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	96109575	I340563	200814594
1119	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1120	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	ETD	APP-Closed	EP	151703592		3054732
1121	WIRELESS ACCESS NETWORK BASE STATION AND METHOD FOR DETERMINING LOCATION INFORMATION FOR A MOBILE STATION USING UPLINK TIME-DIFFERENCE OF ARRIVAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/072832		WO2008/008685
1122	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0720778-6		PI0720778-6
1123	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1124	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1125	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	141547406		2793882
1126	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	78690948	2098001	2098001
1127	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	78690948	2098001	2098001
1128	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	78690948	2098001	2098001
1129	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IT	78690948	5.02015E+14	2098001
1130	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	78690948	2098001	2098001
1131	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/087013		WO2008/079654
1132	CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES FOR A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	TR	78690948	2098001	2098001
1133	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER	[redacted]	[redacted]	NP	MTR-Closed	US	11/752860	7760676	US-2007-0291679-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1134	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER	[redacted]	[redacted]	EPT	MTR-Closed	DE	77984334	6.02007E+12	2036221
1135	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER			EPT	MTR-Closed	EP	77984334	2036221	2036221
1136	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER			EPT	MTR-Closed	GB	77984334	2036221	2036221
1137	ADAPTIVE DRX CYCLE LENGTH BASED ON AVAILABLE BATTERY POWER			PCT	APP-Closed	WO	PCT/US2007/070986		WO2007/149732
1138	[redacted]								
1139	TECHNIQUES TO DETERMINISTICALLY REDUCE SIGNAL INTERFERENCE			PCT	MTR-Closed	CN	2.00788E+12	ZL200780047520 6	101563850
1140	TECHNIQUES TO DETERMINISTICALLY REDUCE SIGNAL INTERFERENCE			EPT	MTR-Closed	EP	78688660		2118018
1141	TECHNIQUES TO DETERMINISTICALLY REDUCE SIGNAL INTERFERENCE			PCT	MTR-Closed	JP	2009-543011	5180226	2010-514370
1142	TECHNIQUES TO DETERMINISTICALLY REDUCE SIGNAL INTERFERENCE			PCT	APP-Closed	WO	PCT/US2007/088678		WO2008/079976
1143	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK			EPT	MTR-Closed	GB	87911460	2119133	2119133
1144	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK			PCT	MTR-Closed	JP	2009-544932	5138703	2010-515385
1145	REDUNDANT MULTICAST SERVICE IN WIRELESS NETWORK			PCT	APP-Closed	WO	PCT/US2008/055522		WO2008/109453
1146	MAPPING OF PREAMBLE SEQUENCE SETS WITH FRAME CONTROL HEADER (FCH) LOCATION FOR MULTI-HOP WIRELESS BROADBAND ACCESS COMMUNICATIONS			PCT	MTR-Closed	CN	2.00788E+12	ZL200780039779 6	101529751
1147	MAPPING OF PREAMBLE SEQUENCE SETS WITH FRAME CONTROL HEADER (FCH) LOCATION FOR MULTI-HOP WIRELESS BROADBAND ACCESS COMMUNICATIONS			EPT	MTR-Closed	EP	78398229		2082501
1148	MAPPING OF PREAMBLE SEQUENCE SETS WITH FRAME CONTROL HEADER (FCH) LOCATION FOR MULTI-HOP WIRELESS BROADBAND ACCESS COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2007/022765		WO2008/051618
1149	[redacted]								
1150	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING			PCT	MTR-Closed	CN	2.00888E+12	ZL200880101943 9	101809939
1151	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING			EPT	MTR-Closed	EP	88362934		2193633
1152	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING			PCT	APP-Closed	WO	PCT/US2008/077840		WO2009/045890
1153	POWER SAVING OPERATION OF ALWAYS-CONNECTED WIRELESS ROAMING			NP	MTR-Closed	TW	97136724	I392281	200935928
1154	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A WIRELESS NETWORK			NP	MTR-Closed	US	11/738215	7860469	US-2008-0233905-A1
1155	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A BROADBAND NETWORK			PCT	MTR-Closed	CN	2.00888E+12	ZL200880008673 4	101637053
1156	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A BROADBAND NETWORK			EPT	MTR-Closed	EP	87322475		2137997
1157	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A BROADBAND NETWORK			PCT	MTR-Closed	JP	2009-553819	5095760	2010-521129
1158	SLEEP OPTIMIZATION FOR MOBILE DEVICES IN A BROADBAND NETWORK			PCT	APP-Closed	WO	PCT/US2008/057068		WO2008/115813
1159	[redacted]								
1160	CASCADED PHASE PULSE POSITION AND PULSE WIDTH MODULATION BASED DIGITAL TRANSMITTER			PCT	APP-Closed	WO	PCT/US2008/072516		WO2009/023533
1161	SUBRANGING FOR A PULSE POSITION AND PULSE WIDTH MODULATION BASED TRANSMITTER			PCT	MTR-Closed	GB	10013167	2463443	2463443
1162	SUBRANGING FOR A PULSE POSITION AND PULSE WIDTH MODULATION BASED TRANSMITTER			PCT	APP-Closed	WO	PCT/US2008/071371		WO2009/018222
1163	[redacted]								
1164	POLAR AMPLIFIER			PCT	MTR-Closed	JP	2010-508502	4890643	2010-527563
1165	POLAR AMPLIFIER			PCT	APP-Closed	WO	PCT/US2008/062813		WO2008/147648
1166	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PLATFORM			PCT	MTR-Closed	GB	10020022	2464063	2464063
1167	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PLATFORM			PCT	APP-Closed	WO	PCT/US2008/072188		WO2009/020955
1168	METHOD AND APPARATUS FOR ANTENNA ALLOCATION ON A MULTI-RADIO PLATFORM			NP	MTR-Closed	TW	97127618	I400919	200915802
1169	MULTICARRIER TECHNIQUES FOR WIRELESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2008/062608		WO2008/144208
1170	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK			PCT	MTR-Closed	CN	2.00888E+12	ZL200880012226 6	101904110
1171	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK			PCT	MTR-Closed	DE	1.12008E+12	1.12008E+11	1.12008E+11
1172	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK			PCT	MTR-Closed	GB	10103471	2468250	2468250
1173	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK			PCT	MTR-Closed	JP	2010-539580	4955971	2011-508522
1174	RECURSIVE REDUCTION OF CHANNEL STATE FEEDBACK			PCT	APP-Closed	WO	PCT/US2008/084578		WO2009/085490
1175	MILLIMETER-WAVE COMMUNICATION STATIONS WITH DIRECTIONAL ANTENNAS AND METHODS FOR FAST LINK RECOVERY			EPT	MTR-Closed	EP	87312500		2134281
1176	MILLIMETER-WAVE COMMUNICATION STATIONS WITH DIRECTIONAL ANTENNAS AND METHODS FOR FAST LINK RECOVERY			PCT	APP-Closed	KR	10-2009-7013515		10-2009-0096476
1177	MILLIMETER-WAVE COMMUNICATION STATIONS WITH DIRECTIONAL ANTENNAS AND METHODS FOR FAST LINK RECOVERY			PCT	APP-Closed	WO	PCT/US2008/055660		WO2008/109525
1178	[redacted]								
1179	ARCHITECTURE AND METHODS FOR COEXISTENCE OF WIRELESS RADIOS HAVING DIFFERING PROTOCOLS			CNT	MTR-Closed	US	13/477536	8687732	US-2012-0230303-A1
1180	ARCHITECTURE AND METHODS FOR COEXISTENCE OF WIRELESS RADIOS HAVING DIFFERING PROTOCOLS			PCT	MTR-Closed	CN	2.00888E+12	ZL200880019707 8	101682540
1181	ARCHITECTURE AND METHODS FOR COEXISTENCE OF WIRELESS RADIOS HAVING DIFFERING PROTOCOLS			EPT	MTR-Closed	EP	87549010		2145428
1182	ARCHITECTURE AND METHODS FOR COEXISTENCE OF WIRELESS RADIOS HAVING DIFFERING PROTOCOLS			PCT	APP-Closed	WO	PCT/US2008/059153		WO2008/124445
1183	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE			NP	MTR-Closed	US	11/745557	7953863	US-2008-0279127-A1
1184	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE			PCT	MTR-Closed	CN	2.00888E+12	ZL200880023682 0	101690131
1185	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE			DIV	MTR-Closed	US	13/016605	8606849	US-2011-0113091-A1
1186	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE			EPT	MTR-Closed	EP	87466025		2153677

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1187	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE	[redacted]	[redacted]	PCT	MTR-Closed	JP	2010-507517	5048124	2010-526517
1188	TECHNIQUES FOR TIMING OPTIMIZATION IN WIRELESS NETWORKS THAT UTILIZE A UNIVERSAL SERVICES INTERFACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2008/061213		WO2008/140908
1189	COMPRESSED MEDIUM ACCESS CONTROL (MAC) HEADER STRUCTURE FOR MAC OVERHEAD REDUCTION IN MOBILE WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WIMAX) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00888E+12		101809954
1190	COMPRESSED MEDIUM ACCESS CONTROL (MAC) HEADER STRUCTURE FOR MAC OVERHEAD REDUCTION IN MOBILE WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WIMAX) SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12008E+12	1.12008E+11	1.12008E+11
1191	COMPRESSED MEDIUM ACCESS CONTROL (MAC) HEADER STRUCTURE FOR MAC OVERHEAD REDUCTION IN MOBILE WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WIMAX) SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	GB	10015592	2464638	2464638
1192	COMPRESSED MEDIUM ACCESS CONTROL (MAC) HEADER STRUCTURE FOR MAC OVERHEAD REDUCTION IN MOBILE WORLDWIDE INTEROPERABILITY FOR MICROWAVE ACCESS (WIMAX) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2008/071697		WO2009/032438
1193	PLATFORM NOISE ESTIMATION AND MITIGATION	[redacted]	[redacted]	NP	MTR-Closed	US	11/984932	7937741	US-2009-0089851-A1
1194	PLATFORM NOISE ESTIMATION AND MITIGATION	[redacted]	[redacted]	NP	MTR-Closed	TW	97137314	I407795	200934254
1195	FIELD PROGRAMMING OF A MOBILE STATION WITH SUBSCRIBER IDENTIFICATION AND RELATED INFORMATION	[redacted]	[redacted]	CNT	MTR-Closed	US	13/675876	8918068	US-2013-0094651-A1
1196	FIELD PROGRAMING OF A MOBILE STATION WITH SUBSCRIBER IDENTIFICATION AND RELATED INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00888E+12	ZL200880012008	101682514
1197	FIELD PROGRAMING OF A MOBILE STATION WITH SUBSCRIBER IDENTIFICATION AND RELATED INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	87705626		2158722
1198	FIELD PROGRAMING OF A MOBILE STATION WITH SUBSCRIBER IDENTIFICATION AND RELATED INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2008/066395		WO2008/157128
1199	[redacted]								
1200									
1201									
1202	CHANNEL AWARE MULTIPLE USER MIMO SCHEME UNIFIED WITH SINGLE USER CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	CN	200880102523X	ZL200880102523X	101785210
1203	CHANNEL AWARE MULTIPLE USER MIMO SCHEME UNIFIED WITH SINGLE USER CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12008E+12	1.12008E+11	1.12008E+11
1204	CHANNEL AWARE MULTIPLE USER MIMO SCHEME UNIFIED WITH SINGLE USER CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	MTR-Closed	GB	10023927	2465131	2465131
1205	CHANNEL AWARE MULTIPLE USER MIMO SCHEME UNIFIED WITH SINGLE USER CLOSED LOOP MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2008/072511		WO2009/023532
1206	[redacted]								
1207	SIGMA-DELTA CONVERTER NOISE CANCELLATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2009/057648		WO2010/036691
1208	SIGMA-DELTA CONVERTER NOISE CANCELLATION	[redacted]	[redacted]	NP	MTR-Closed	TW	98132267	I397266	201021428
1209	ADAPTIVE ANTENNA BEAMFORMING	[redacted]	[redacted]	NP	MTR-Closed	US	12/215842	8040278	US-2009-0121936-A1
1210	[redacted]								
1211	AVOIDING COLLISIONS BETWEEN USERS IF MAP CONTAINING PERSISTENT SCHEDULING INFORMATION IS LOST	[redacted]	[redacted]	CIP	MTR-Closed	US	12/027456	8068382	US-2009-0137253-A1
1212	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETWORKS	[redacted]	[redacted]	EPA	APP-Closed	EP	91551515		2101528
1213	RESOURCE MANAGEMENT AND INTERFERENCE MITIGATION TECHNIQUES FOR RELAY-BASED WIRELESS NETWORKS	[redacted]	[redacted]	EPD	APP-Closed	EP	12157973.4		2464157
1214	APPARATUSES AND METHOD FOR INTERFERENCE MITIGATION IN A RELAY-BASED WIRELESS NETWORK	[redacted]	[redacted]	EPD	MTR-Closed	EP	16181517.0		3139654
1215	APPARATUSES AND METHOD FOR INTERFERENCE MITIGATION IN A RELAY-BASED WIRELESS NETWORK	[redacted]	[redacted]	FPD	APP-Closed	HK	17108780.8		1235201
1216	[redacted]								
1217	MULTI-TRANSCEIVER WIRELESS COMMUNICATION DEVICE AND METHODS FOR OPERATING DURING DEVICE DISCOVERY AND CONNECTION ESTABLISHMENT	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00931E+12	ZL200910133158.5	101553037
1218	MULTI-TRANSCEIVER WIRELESS COMMUNICATION DEVICE AND METHODS FOR OPERATING DURING DEVICE DISCOVERY AND CONNECTION ESTABLISHMENT	[redacted]	[redacted]	EPA	MTR-Closed	DE	91572974	6.02009E+12	2107853
1219	MULTI-TRANSCEIVER WIRELESS COMMUNICATION DEVICE AND METHODS FOR OPERATING DURING DEVICE DISCOVERY AND CONNECTION ESTABLISHMENT	[redacted]	[redacted]	EPA	MTR-Closed	EP	91572974	2107853	2107853
1220	MULTI-TRANSCEIVER WIRELESS COMMUNICATION DEVICE AND METHODS FOR OPERATING DURING DEVICE DISCOVERY AND CONNECTION ESTABLISHMENT	[redacted]	[redacted]	EPA	MTR-Closed	GB	91572974	2107853	2107853
1221	SYSTEM AND METHOD FOR PROVIDING LOCATION-BASED SERVICES (LBS) TO ROAMING SUBSCRIBERS IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2009/053530		WO2010/025036
1222	[redacted]								
1223	BASE STATION AND METHOD FOR RESOURCE ALLOCATION IN A 3GPP LTE NETWORK	[redacted]	[redacted]	CNT	MTR-Closed	US	13/558964	9001759	US-2012-0287895-A1
1224	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00911E+12	ZL200910140170.9	101631319
1225	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	EPA	MTR-Closed	DE	91645671	6.02009E+12	2144394
1226	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	EPA	MTR-Closed	EP	91645671	2144394	2144394
1227	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	EPD	MTR-Closed	EP	14177284.8		2793413
1228	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SDMA	[redacted]	[redacted]	NP	MTR-Closed	JP	2009-160445	5081200	2010-021995

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1229	BANDWIDTH ALLOCATION BASE STATION AND METHOD FOR ALLOCATING UPLINK BANDWIDTH USING SOMA	[redacted]	[redacted]	DIV	MTR-Closed	JP	2012-190526	5775498	2013-013132
1230	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	09/919683	7227895	
1231	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	27482751	1413097	1413097
1232	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	28186710		1595125
1233	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	APP-Closed	CN	2.01218+12		102868104
1234	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	27482751	1413097	1413097
1235	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	27482751	1413097	1413097
1236	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	27482751	1413097	1413097
1237	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	27482751	1413097	1413097
1238	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	27482751	1413097	1413097
1239	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	27482751	1413097	1413097
1240	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	27482751	1413097	1413097
1241	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-518202	4335674	2005-509336
1242	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7003504	10-0887348	10-2004-0037366
1243	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	27482751	1413097	1413097
1244	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/024302		WO2003/013162
1245	RESOURCE ALLOCATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	27482751	1413097	1413097
1246	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1247	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	EPT	MTR-Closed	DE	19735810	601261135	
1248	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	EPT	MTR-Closed	EP	19735810	1325655	
1249	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	EPT	MTR-Closed	FR	1973581	1325655	
1250	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	EPT	MTR-Closed	GB	19735810	1325655	1325655
1251	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/030270		WO2002/028121
1252	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1253	RADIO COMMUNICATIONS SYSTEM WITH REDUCED DATA RATE ON THE BROADCAST CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/019522		WO2004/002187
1254	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1255	ADAPTIVE ANTENNA ARRAY WITH PROGRAMMABLE SENSITIVITY	[redacted]	[redacted]	CNT	MTR-Closed	US	11/375500	7593693	
1256	METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	PCT	MTR-Closed	CN	28236475	ZL028236475	1596513
1257	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	EPT	MTR-Closed	DE	27618354	602235812	
1258	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	EPT	MTR-Closed	EP	27618354	1433270	1433270
1259	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	EPT	MTR-Closed	FR	27618354	1433270	
1260	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	EPT	MTR-Closed	GB	27618354	1433270	
1261	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-533475		2005-509968
1262	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	PCD	MTR-Closed	JP	2009-250194	4979146	2010-063134
1263	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7004687	10-0946289	10-2004-0037205
1264	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/030637		WO2003/030403
1265	METHOD AND APPARATUS TO PROVIDE MULTIPLE-MODE SPATIAL PROCESSING TO A TERMINAL UNIT	[redacted]	[redacted]	CIP	MTR-Closed	US	10/265898	7277679	
1266	METHOD AND APPARATUS TO PROVIDE MULTIPLE-MODE SPATIAL PROCESSING IN A RADIO RECEIVER	[redacted]	[redacted]	CNT	MTR-Closed	US	11/853992	7702298	US-2008-0004078-A1
1267	REMOTE UNIT FOR PROVIDING SPATIAL PROCESSING	[redacted]	[redacted]	CNT	MTR-Closed	US	12/762980	7936049	US-2010-0202313-A1
1268	SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT	[redacted]	[redacted]	NP	MTR-Closed	US	10/034140	7206293	US-2003-0123404-A1
1269	SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT	[redacted]	[redacted]	CNT	MTR-Closed	US	12/580064	7817590	US-2010-0034131-A1
1270	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATIONS TARGETS	[redacted]	[redacted]	PCT	MTR-Closed	CN	28237633	ZL028237633	1596553
1271	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	EPT	MTR-Closed	DE	27760032	602456762	1433345
1272	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	EPT	MTR-Closed	EP	27760032	1433345	1433345
1273	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	EPT	MTR-Closed	GB	27760032	1433345	1433345
1274	SYSTEM RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATIONS TARGETS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-533634	4358507	2005-536803
1275	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7004873	10-0904513	10-2004-0037210
1276	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/030578		WO2003/030574
1277	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1278	BROADCAST BURST USING SPATIAL DIVERSITY FOR A RADIO COMMUNICATIONS SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	10/187230	7164726	
1279	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2005-7000974	10-1005509	10-2005-0016783
1280	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/020924		WO2004/006465
1281	SELECTIVE POWER CONTROL MESSAGING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/028598		WO2004/032367

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1282	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	37393477	603440509	1520442
1283	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	37393477	1520442	1520442
1284	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	37393477	1520442	1520442
1285	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2004-518035		JP 2004-518035
1286	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7021420	10-1108289	10-2005-0005568
1287	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/020423		WO2004/004408
1288	SYMBOL ESTIMATION-BASED DECORRELATOR FOR ESTIMATING SPATIAL SIGNATURES IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	10/387718	7047045	US-2004-0180625-A1
1289	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1290	PHASE ERROR DETECTOR ALGORITHM INCORPORATING CONDITIONAL PROBABILITY OF HARD DECISIONS	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00911E+12	ZL200911000148G	101800717
1291	PHASE ERROR DETECTION WITH CONDITIONAL PROBABILITIES	[redacted]	[redacted]	EPT	MTR-Closed	EP	98376547		2380285
1292	PHASE ERROR DETECTION WITH CONDITIONAL PROBABILITIES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2011-544647	5350491	2012-514438
1293	PHASE ERROR DETECTION WITH CONDITIONAL PROBABILITIES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7015197	10-1288327	10-2011-0119629
1294	PHASE ERROR DETECTION WITH CONDITIONAL PROBABILITIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2009/069508		WO2010/078213
1295	PHASE ERROR DETECTOR ALGORITHM INCORPORATING CONDITIONAL PROBABILITY OF HARD DECISIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	98145016	I435550	201101721
1296	DETECTION AND RECOVERY OF HARQ NAK-TO-ACK FEEDBACK ERROR IN WIRELESS COMMUNICATIONS SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	US	12/317351	8359409	US-2010-0005354-A1
1297	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	BR	1120120026674		1120120026674
1298	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01088E+12	ZL201080035836S	102464889
1299	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPT	MTR-Closed	EP	108068263		2462778
1300	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-523632	5403568	2013-501459
1301	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7002895	10-1376890	10-2012-0042911
1302	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/042458		WO2011/016987
1303	METHOD AND APPARATUS FOR ACTIVATING A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	TW	99123298	I418232	201141296
1304	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	NP	APP-Closed	US	12/456930		US-2010-0323636-A1
1305	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1306	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	NP	APP-Closed	CN	2.01101E+12		101931771
1307	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	EPT	MTR-Closed	EP	10797471S		2446615
1308	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-516084	5475126	2012-530453
1309	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7030763	10-1373921	10-2012-0014048
1310	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/031680		WO2011/005345
1311	APPARATUS AND METHODS FOR IMPLEMENTING MULTI-CHANNEL TUNERS	[redacted]	[redacted]	PCT	MTR-Closed	SG	201108207-0	175941	175941
1312	ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	US	12/495594	8275028	US-2010-0329309-A1
1313	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1314	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01015E+12	ZL201010253491Z	101938436
1315	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	EPT	MTR-Closed	EP	107947392		2449768
1316	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-517900	5230960	2012-531839
1317	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7030528	10-1306342	10-2012-0014593
1318	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/040680		WO2011/002940
1319	AN ADVANCED TELEVISION SYSTEMS COMMITTEE (ATSC) DIGITAL TELEVISION (DTV) RECEIVER	[redacted]	[redacted]	PCT	MTR-Closed	SG	201108225-2	175957	175957
1320	TECHNIQUES TO SUPPORT MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	CN			
1321	TECHNIQUES TO SUPPORT MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	EP	98242076		2417818
1322	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1323	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1324	TECHNIQUES TO SUPPORT MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2009/062903		WO2010/051517
1325	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2012-516156		2012-530460
1326	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2011-7030928		10-2012-0036885
1327	GPS ASSISTED NETWORK ADMINISTRATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/038478		WO2010/151445
1328	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01088E+12	ZL201080028259Z	102804858
1329	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	PCT	APP-Closed	JP	2012-516152		2012-531099
1330	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7030711	10-1375884	10-2012-0024826
1331	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/038465		WO2011/005416
1332	MACRO-TO-FEMTO CELL RESELECTION	[redacted]	[redacted]	NP	MTR-Closed	TW	99117950	I471033	201114281
1333	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	10803583		2454840
1334	METHOD AND SYSTEM TO IMPROVE LINK BUDGET OF A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/041520		WO2011/008648
1335	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01088E+12	ZL201080026992S	102461328

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1336	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	EPT	MTR-Closed	EP	10768253		2420104
1337	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7026358	10-1308371	10-2011-0140133
1338	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/030232		WO2010/120605
1339	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	NP	MTR-Closed	TW	99111076	I433583	201110791
1340	MULTI-RADIO COMMUNICATION DEVICE AND METHOD FOR ENABLING COEXISTENCE BETWEEN A BLUETOOTH TRANSCEIVER AND A WIMAX TRANSCEIVER OPERATING IN FDD MODE	[redacted]	[redacted]	DIV	MTR-Closed	TW	102139065	I469677	201408113
1341	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	CN	201080010843X	ZL201080010843X	102342055
1342	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	107491524	2404399	2404399
1343	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	AT	107491524	2404399	2404399
1344	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	BE	107491524	2404399	2404399
1345	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	CH	107491524	2404399	2404399
1346	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	107491524	2404399	2404399
1347	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EE	107491524	2404399	2404399
1348	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	107491524	2404399	2404399
1349	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	FR	107491524	2404399	2404399
1350	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	107491524	2404399	2404399
1351	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GR	107491524	2404399	2404399
1352	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	HU	107491524	2404399	2404399
1353	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	IE	107491524	2404399	2404399
1354	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	NL	107491524	2404399	2404399
1355	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	SK	107491524	2404399	2404399
1356	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2011-552219	5504435	2012-518973
1357	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2011-7020638		10-2011-0112875
1358	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2013-7027067		10-2013-0132649
1359	POLAR CAP RESET METHOD FOR DIFFERENTIAL CODEBOOK FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/025745		WO2010/101816
1360	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0108E+12		102342161
1361	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	107491565	2404471	2404471
1362	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	AT	107491565	2404471	2404471
1363	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	BE	107491565	2404471	2404471
1364	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	CH	107491565	2404471	2404471
1365	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	DE	107491565	2404471	2404471
1366	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	EE	107491565	2404471	2404471
1367	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	ES	107491565	2404471	2404471
1368	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	FR	107491565	2404471	2404471
1369	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	GB	107491565	2404471	2404471
1370	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	GR	107491565	2404471	2404471
1371	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	HU	107491565	2404471	2404471
1372	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	IE	107491565	2404471	2404471
1373	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	NL	107491565	2404471	2404471
1374	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	SK	107491565	2404471	2404471
1375	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	JP	2011-552224		2012-518974
1376	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7020391	10-1294460	10-2011-0112461
1377	EFFICIENT PAGING OPERATION FOR FEMTOCELL DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/025786		WO2010/101837
1378	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1379	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0108E+12	ZL201080019460.9	102415017
1380	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	DE	107725756	6.0201E+12	2425555
1381	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	107725756	2425555	2425555
1382	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	GB	107725756	2425555	2425555
1383	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-508654	5224226	2012-525784

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1384	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7027510	10-1267157	10-2012-0005520
1385	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/032808		WO2010/129353
1386	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1387	HARQ FEEDBACK CHANNEL INDEXING SCHEME IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	TW	99113309	I410076	201112672
1388	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1389	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0108E+12		102804711
1390	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	107724809		2425584
1391	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7028446	10-1369068	10-2012-0017437
1392	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/032348		WO2010/129209
1393	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	99113310	I458377	201127101
1394	TRANSMISSION OF ADVANCED-MAP INFORMATION ELEMENTS IN MOBILE NETWORKS	[redacted]	[redacted]	DIV	MTR-Closed	TW	103129874	I528849	201448643
1395	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0108E+12		102668488
1396	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	EPT	MTR-Closed	EP	108287095		2497236
1397	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	JP	2012-536812		2013-510467
1398	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1399	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2012-7011368		10-2012-0079134
1400	FRAME STRUCTURE FOR SUPPORT OF LARGE DELAY SPREAD DEPLOYMENT SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/048971		WO2011/056299
1401	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0108E+12	ZL201080034708	102474907
1402	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	108048810	6.0201E+12	2460387
1403	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	108048810	2460387	2460387
1404	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	108048810	2460387	2460387
1405	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-522876	5440988	2013-501398
1406	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7002391	10-1411704	10-2012-0040226
1407	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/041988		WO2011/014360
1408	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	PCT	MTR-Closed	RU	2012103176	2513104	2012103176
1409	COEXISTENCE INTERFACE FOR MULTIPLE RADIO MODULES USING A REDUCED NUMBER OF CONNECTIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	99123477	I416598	201119482
1410	GROUP RESOURCE ALLOCATION TECHNIQUES FOR IEEE 80216M	[redacted]	[redacted]	DIV	MTR-Closed	US	13/733905	9036728	US-2013-0121234-A1
1411	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0108E+12	ZL201080045605.2	102725908
1412	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	EPT	MTR-Closed	EP	108068214		2462655
1413	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	EPD	MTR-Closed	EP	151896545		3012909
1414	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-523629	5376479	2013-501456
1415	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7005817	10-1351229	10-2012-0043061
1416	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/042396		WO2011/016976
1417	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	PCT	MTR-Closed	RU	2012108152	2488503	2012108152
1418	MULTIPROTOCOL ANTENNA STRUCTURE AND METHOD FOR SYNTHESIZING A MULTIPROTOCOL ANTENNA PATTERN	[redacted]	[redacted]	NP	MTR-Closed	TW	99113978	I451630	201136029
1419	METHOD AND APPARATUS TO SUPPORT MULTI-CHANNEL RECEPTION	[redacted]	[redacted]	NP	MTR-Closed	CN	2.0101E+12	ZL201010294329.5	102036030
1420	METHOD AND APPARATUS TO SUPPORT MULTI-CHANNEL RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	108192345		2481211
1421	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1422	METHOD AND APPARATUS TO SUPPORT MULTI-CHANNEL RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/048219		WO2011/037751
1423	CALIBRATION OF QUADRATURE IMBALANCE VIA LOOPBACK PHASE SHIFTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/046633		WO2011/037714
1424	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYSTEMS	[redacted]	[redacted]	CNT	MTR-Closed	US	13/789155	9107198	US-2013-0188585-A1
1425	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0108E+12	ZL201080028978.9	102461243
1426	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYTEMS	[redacted]	[redacted]	EPT	APP-Closed	EP	107725780		2428052
1427	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1428									
1429									
1430									

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1431	[redacted]								
1432									
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1440	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYTEMS			PCT	MTR-Closed	JP	2012-508656	5464767	2012-525785
1441	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYTEMS			PCT	MTR-Closed	KR	10-2011-7027230	10-1357936	10-2012-0018326
1442	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2010/032821		WO2010/129356
1443	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYSTEMS			NP	MTR-Closed	TW	99113265	I513216	201128986
1444	UPLINK FEEDBACK CHANNEL REPORTING MECHANISM IN WIRELESS SYSTEMS			DIV	MTR-Closed	TW	104131443	I591977	201614969
1445	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			NP	APP-Closed	US	12/647442		US-2010-0272033-A1
1446	METHOD OF HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			PCT	MTR-Closed	CN	2.0108E+12	ZL201080028985.9	102461049
1447	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			EPT	MTR-Closed	EP	107725806		2425572
1448	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			PCT	MTR-Closed	JP	2012-508658	5420757	2012-525786
1449	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			PCT	APP-Closed	KR	10-2011-7027944		10-2012-0003490
1450	HARQ BUFFER MANAGEMENT AND FEEDBACK DESIGN FOR A WIRELESS SYSTEM			PCT	APP-Closed	WO	PCT/US2010/032826		WO2010/129358
1451	[redacted]								
1452	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	CN	2.0108E+12	ZL201080034789	102474757
1453	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	DE	1.1201E+12		1.1201E+11
1454	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			EPT	MTR-Closed	EP	108142076		2471303
1455	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	GB	12039533	2485515	2485515
1456	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	APP-Closed	IN	10347/DELNP/2011		10347/DELNP/2011
1457	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	JP	2012-525754	5539520	2013-502192
1458	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	KR	10-2012-7004715	10-1384545	10-2012-0039730
1459	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	APP-Closed	WO	PCT/US2010/046348		WO2011/028481
1460	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	RU	2012111246	2513029	2012111246
1461	TECHNIQUES TO NEGOTIATE CAPABILITIES BETWEEN NETWORKED DEVICES			PCT	MTR-Closed	SG	201200156-6	177581	177581
1462	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS			EPT	APP-Closed	EP	107976656		2452443
1463	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS			DIV	APP-Closed	JP	2014-089955		2014-195258
1464	BEAMFORMING USING BASE AND DIFFERENTIAL CODEBOOKS			PCT	APP-Closed	WO	PCT/US2010/040887		WO2011/005677
1465	[redacted]								
1466	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	CN	2.0108E+12	ZL201080040657.0	102577460
1467	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	DE	1.1201E+12		1.1201E+11
1468	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			EPT	MTR-Closed	EP	107976433		2452514
1469	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	GB	12014098	2484626	2484626
1470	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			FPR	MTR-Closed	HK	121070782		1166434
1471	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	JP	2012-519595	5403471	2012-532564
1472	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	KR	10-2012-7002860	10-1359853	10-2012-0042987
1473	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	APP-Closed	WO	PCT/US2010/040731		WO2011/005644
1474	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	RU	2012103894	2502226	2012103894
1475	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			PCT	MTR-Closed	SG	201200137-6	177579	177579
1476	METHOD AND APPARATUS OF DERIVING SECURITY KEY(S)			NP	MTR-Closed	TW	99122030	I511582	201108763
1477	[redacted]								
1478	DEVICE SYSTEM AND METHOD OF SIMULTANEOUSLY COMMUNICATING WITH A GROUP OF WIRELESS COMMUNICATION UNITS			PCT	APP-Closed	WO	PCT/US2010/054461		WO2011/084211
1479	[redacted]								
1480	METHOD AND APPARATUS FOR ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS			PCT	MTR-Closed	CN	201080042247X	ZL201080042247X	102511193
1481	ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS			EPT	MTR-Closed	EP	108142399		2471325
1482	ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS			PCT	MTR-Closed	JP	2012-526912	5521257	2013-502889
1483	ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS			PCT	MTR-Closed	KR	10-2012-7007436	10-1364924	10-2012-0053512
1484	ALLOCATING GROUP RESOURCES FOR WIRELESS COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2010/046480		WO2011/028522
1485	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			PCT	MTR-Closed	CN	2.0108E+12	ZL201080030691.X	102484776
1486	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			EPT	MTR-Closed	EP	108142571		2471286
1487	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			PCT	MTR-Closed	JP	2012-526926	5462366	2013-502891
1488	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			PCT	MTR-Closed	KR	10-2012-7007412	10-1369753	10-2012-0063491
1489	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			PCT	APP-Closed	WO	PCT/US2010/046527		WO2011/028544
1490	SHORT USER MESSAGES IN SYSTEM CONTROL SIGNALING			PCT	MTR-Closed	RU	2012111263	2524866	2012111263
1491	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			PCT	MTR-Closed	BR	112012004020-0		112012004020-0
1492	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			PCT	MTR-Closed	CN	2.0108E+12	ZL201080035027.4	102474821
1493	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			EPT	MTR-Closed	EP	108142159		2471323
1494	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			PCT	APP-Closed	JP	2012-526888		2013-502884
1495	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			PCT	MTR-Closed	KR	10-2012-7005965	10-1393989	10-2012-0089266
1496	DEVICE SYSTEM AND METHOD OF POWER-SAVING FOR WIRELESS COMMUNICATION			PCT	APP-Closed	WO	PCT/US2010/046378		WO2011/028490

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1497	[redacted]								
1498	INITIALIZING FEMTOCELLS			PCT	APP-Closed	WO	PCT/US2010/040767		WO2011/005654
1499	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	MTR-Closed	BR	112012000416-6		112012000416-6
1500	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	MTR-Closed	CN	2.01088E+12	ZL201080036202I	102474782
1501	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			EPT	MTR-Closed	EP	107977118		2452523
1502	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	MTR-Closed	JP	2012-519665	5520372	2012-532574
1503	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	MTR-Closed	KR	10-2012-7002853	10-1312891	10-2012-0061818
1504	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2010/041053		wo2011/005781
1505	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			PCT	MTR-Closed	RU	2012103912	2508121	2012103912
1506	IMPROVED HANDOVER FOR CELLULAR RADIO COMMUNICATIONS			NP	MTR-Closed	TW	99122033	I515937	201132161
1507	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			PCT	MTR-Closed	CN	2.01088E+12	ZL201080042266I	102771076
1508	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			EPT	MTR-Closed	EP	108142365		2471207
1509	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			PCT	MTR-Closed	JP	2012-526909	5521256	2013-502888
1510	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			PCT	MTR-Closed	KR	10-2012-7007620	10-1525294	10-2012-0062829
1511	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			PCT	APP-Closed	WO	PCT/US2010/046469		WO2011/028517
1512	DISTRIBUTING GROUP SIZE INDICATIONS TO MOBILE STATIONS			PCT	MTR-Closed	RU	2012111260	2559761	2012111260
1513	ZONE SWITCHING IN MIXED-ZONE AIR INTERFACE			DIV	MTR-Closed	US	13/561992	8738002	US-2012-0302246-A1
1514	[redacted]								
1515	METHOD AND APPARATUS FOR TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS			PCT	MTR-Closed	CN	201080010811X	ZL201080010811X	102342074
1516	TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS			EPT	MTR-Closed	EP	107892464		2404422
1517	TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS			PCT	APP-Closed	IN	5057/DELNP/2011		5057/DELNP/2011
1518	TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS			PCT	MTR-Closed	KR	10-2011-7020431	10-1264544	10-2011-0122710
1519	TRANSMISSION OF PREAMBLE CODE FOR MOBILE WIMAX SYSTEMS			PCT	APP-Closed	WO	PCT/US2010/026008		WO2010/101975
1520	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			PCT	MTR-Closed	CN	2.01088E+12	ZL201080038552I	102484852
1521	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			EPT	MTR-Closed	EP	108142308		2471319
1522	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			PCT	MTR-Closed	JP	2012-526898	5388316	2013-502885
1523	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			PCT	MTR-Closed	KR	10-2012-7004971	10-1408533	10-2012-0048652
1524	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			PCT	APP-Closed	WO	PCT/US2010/046439		WO2011/028809
1525	MAC/PHY IDENTIFICATION OF BASE STATION TYPES AND THEIR PREFERRED AND RESTRICTED ACCESS			PCT	MTR-Closed	RU	2012111251	2526736	2012111251
1526	LOCATION DETERMINATION IN WIRELESS COMMUNICATION SYSTEMS			NP	MTR-Closed	CN	2.01011E+12	ZL201010537888I	102056292
1527	LOCATION DETERMINATION IN WIRELESS COMMUNICATION SYSTEMS			NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
1528	LOCATION DETERMINATION IN WIRELESS COMMUNICATION SYSTEMS			NP	MTR-Closed	GB	10186633	2475171	2475171
1529	LOCATION DETERMINATION IN WIRELESS COMMUNICATION SYSTEMS			NP	MTR-Closed	JP	2010-248604	5154630	2011-101370
1530	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES			CNT	APP-Closed	US	13/220287		
1531	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES			NP	APP-Closed	CN	201010625038X		102158307
1532	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES			NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
1533	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES			NP	APP-Closed	GB	10217552		2476577
1534	GROUP RESOURCE ALLOCATION SYSTEMS AND TECHNIQUES			NP	APP-Closed	JP	2010-282628		2011-135577
1535	METHOD AND APPARATUS FOR ADAPTIVE MITIGATION OF NOISE INTERFERENCE			PCT	APP-Closed	WO	PCT/US2012/048262		WO2013/015953
1536	[redacted]								
1537	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES			PCT	MTR-Closed	CN	2.01088E+12	ZL201080038353D	102484775
1538	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES			EPT	MTR-Closed	EP	108142498		2471285
1539	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES			PCT	MTR-Closed	JP	2012-526922	5378879	2013-502890
1540	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES			PCT	MTR-Closed	KR	10-2012-7004963	10-1411056	10-2012-0038011
1541	METHOD AND APPARATUS FOR ENHANCED MULTICAST BROADCAST SERVICES			PCT	APP-Closed	WO	PCT/US2010/046511		WO2011/028538
1542	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK			EPT	MTR-Closed	EP	108141946		2471314
1543	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK			PCT	APP-Closed	WO	PCT/US2010/046286		WO2011/028464
1544	SYSTEM METHOD AND APPARATUS FOR AN EFFICIENT INFORMATION BROADCAST IN A MULTI-CARRIER WIRELESS NETWORK			PCT	MTR-Closed	RU	2012111242	2493681	
1545	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK			PCT	MTR-Closed	CN	2.01088E+12	ZL201080047776B	102577176
1546	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK			EPT	MTR-Closed	EP	108253758		2481664
1547	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Closed	WO	PCT/US2010/048270		WO2011/044696
1548	COVERAGE LOSS RECOVERY IN A WIRELESS COMMUNICATION NETWORK			PCT	MTR-Closed	RU	2012121186	2531581	2012121186
1549	NEIGHBOR LIST BROADCASTING TECHNIQUES			NP	MTR-Closed	US	12/914097	8731549	US-2011-0111754-A1
1550	[redacted]								
1551	NEIGHBOR LIST BROADCASTING TECHNIQUES			NP	MTR-Closed	CN	2.01011E+12	ZL201010602673G	102202380
1552	NEIGHBOR LIST BROADCASTING TECHNIQUES			NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
1553	NEIGHBOR LIST BROADCASTING TECHNIQUES			NP	MTR-Closed	GB	10186987	2475392	2475392
1554	NEIGHBOR LIST BROADCASTING TECHNIQUES			NP	MTR-Closed	JP	2010-245630	5027912	2011-155835
1555	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM			NP	MTR-Closed	CN	2.01011E+12	ZL201010585417D	102186198
1556	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM			NP	MTR-Closed	DE	1.0201E+12	1.0201E+11	1.0201E+11
1557	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM			NP	MTR-Closed	GB	10203768	2475988	2475988
1558	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM			NP	MTR-Closed	JP	2010-249855	5050092	2011-124987

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1558	APPARATUS AND METHODS FOR UPGRADING AN AIRLINK IN A WIRELESS SYSTEM	[redacted]	[redacted]	DIV	MTR-Closed	JP	2012-156194	5687250	2012-209971
1560	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	NP	MTR-Closed	US	12/882524	8811347	US-2011-0170867-A1
1561	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	AT	108178211	2478647	2478647
1562	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1563	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0108E+12	ZL201080042615	102549542
1564	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	108178211	6.02E+12	2478647
1565	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	FE	108178211	2478647	2478647
1566	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	108178211	2478647	2478647
1567	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	108178211	2478647	2478647
1568	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	FR	108178211	2478647	2478647
1569	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	108178211	2478647	2478647
1570	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GR	108178211	2478647	2478647
1571	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	HU	108178211	2478647	2478647
1572	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7008856	10-1432401	10-2012-0083482
1573	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	NL	108178211	2478647	2478647
1574	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/048109		WO2011/035016
1575	MANAGEMENT OF IDS FOR CLOSED SUBSCRIBER GROUP (CSG) BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	SK	108178211	2478647	2478647
1576	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	AT	107703860	2425544	2425544
1577	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	BE	107703860	2425544	2425544
1578	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	CH	107703860	2425544	2425544
1579	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	EE	107703860	2425544	2425544
1580	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	ES	107703860	2425544	2425544
1581	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	GR	107703860	2425544	2425544
1582	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	HU	107703860	2425544	2425544
1583	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	IE	107703860	2425544	2425544
1584	DIFFERENTIAL FEEDBACK SCHEME FOR CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7028414	10-1324395	10-2012-0010271
1585	DIFFERENTIAL FEEDBACK SCHEME FOR CLOSED-LOOP MIMO BEAMFORMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/033061		WO2010/127183
1586	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	[redacted]	[redacted]	EPT	MTR-Closed	SK	107703860	2425544	2425544
1587	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1588	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	CNT	MTR-Closed	US	14/687524	8918137	US-2014-0038681-A1
1589	POWER LOADING IN MU-MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/044246		WO2012/015611
1590	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	107977001		2452475
1591	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-515656	5540439	2012-532573
1592	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7033151	10-1454877	10-2012-0042930
1593	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/041017		WO2011/005727
1594	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	RU	2012103390	2501175	2012103390
1595	BASE STATION AND METHOD FOR REDUCING ASYNCHRONOUS INTERFERENCE IN A MULTI-TIER OFDMA OVERLAY NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	99122032	I492936	201119306
1596	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1597	OFDM TRANSMITTER AND METHODS FOR REDUCING THE EFFECTS OF SEVERE INTERFERENCE WITH SYMBOL LOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2010/059445		WO2011/081809
1598	CLOSE-LOOP POWER AMPLIFIER PRE-DISTORTION CORRECTION	[redacted]	[redacted]	NP	MTR-Closed	US	12/924304	8615054	US-2012-0076237-A1
1599	CLOSE-LOOP POWER AMPLIFIER PRE DISTORTION CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	11827750B		2619914
1600	CLOSE-LOOP POWER AMPLIFIER PRE DISTORTION CORRECTION	[redacted]	[redacted]	PCT	APP-Closed	JP	2013-530404		2013-541907
1601	CLOSE-LOOP POWER AMPLIFIER PRE DISTORTION CORRECTION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2013-7007400	10-1453228	10-2013-0071476
1602	CLOSE-LOOP POWER AMPLIFIER PRE-DISTORTION CORRECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053328		WO2012/040737
1603	FREQUENCY AND TIMING OFFSET ESTIMATION ALGORITHM FOR DTV (DVB-T2/DVB-T/ISDB-T) RECEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/059929		WO2012/074695
1604	DYNAMIC INTERFERENCE MITIGATION FOR CELLULAR NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	11845907Z		2647138
1605	DYNAMIC INTERFERENCE MITIGATION FOR CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/061724		WO2012/074819
1606	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	12/902345	8827983	US-2011-0216677-A1
1607	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1608	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0118E+12	ZL201180035143	102792758
1609	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-556101	5654388	2013-521705
1610	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7025638	10-1431945	10-2012-0138786
1611	TECHNIQUES FOR PROVIDING UPLINK FEEDBACK FOR DOWNLINK-ONLY RF CARRIERS IN A MULTICARRIER SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/025737		WO2011/109190
1612	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	NP	MTR-Closed	US	12/909544	8767536	US-2011-0110229-A1
1613	MULTI-RADIO COMMUNICATION BETWEEN WIRELESS DEVICES	[redacted]	[redacted]	NP	MTR-Closed	GB	10183846	2475157	2475157
1614	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0118E+12	ZL201180066143	102823169
1615	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	11751965I		2543182
1616	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-556096	5536238	2013-521702
1617	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7023186	10-1391049	10-2012-0123699
1618	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/025183		WO2011/109173

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1619	ESTIMATING QUALITY OF A SIGNAL IN MOBILE WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	RU	2012141587	2539355	2012141587
1620	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	AT	108582727	2628254	2628254
1621	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	SE	108582727	2628254	2628254
1622	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	ES	108582727	2628254	2628254
1623	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	FR	108582727	2628254	2628254
1624	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	GB	108582727	2628254	2628254
1625	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	GR	108582727	2628254	2628254
1626	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	HU	108582727	2628254	2628254
1627	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	NL	108582727	2628254	2628254
1628	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2010/001585		WO2012/048438
1629	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	EPT	MTR-Closed	SK	108582727	2628254	2628254
1630	UPLINK NOISE ESTIMATION FOR VIRTUAL MIMO	[redacted]	[redacted]	PCT	MTR-Closed	US	13/878708	9008207	US-2014-0064391-A1
1631	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1632	CONFIGURING COMPONENT CARRIERS IN CARRIER AGGREGATION	[redacted]	[redacted]	DIV	APP-Closed	JP	2015-013350		JP 2015-013350
1633	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	DE	118168293	6.02031E+12	2804076
1634	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	118168293	2804076	2804076
1635	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GB	118168293	2804076	2804076
1636	BASE STATION SELECTION METHOD FOR HETEROGENEOUS OVERLAY NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/046484		WO2012/021357
1637	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1638	METHOD OF DETERMINING REFERENCE SIGNAL RECEIVED POWER IN A DISTRIBUTED ANTENNA SYSTEM AND ASSOCIATED DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01188E+12	ZL201180035161	103181096
1639	CONFIGURABLE COMMON REFERENCE SIGNAL PORT FOR REFERENCE SIGNAL RECEIVED POWER IN DISTRIBUTED ANTENNA SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	118167741		2803982
1640	CONFIGURABLE COMMON REFERENCE SIGNAL PORT FOR REFERENCE SIGNAL RECEIVED POWER IN DISTRIBUTED ANTENNA SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/044785		WO2012/021274
1641	CONFIGURABLE COMMON REFERENCE SIGNAL PORT FOR REFERENCE SIGNAL RECEIVED POWER IN DISTRIBUTED ANTENNA SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	TW	100126176	I479821	201220743
1642	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1643	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1644	DYNAMIC BANDWIDTH CONTROL IN INTERFERENCE SITUATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/061368		WO2012/082313
1645	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	118168319		2804050
1646	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	MTR-Closed	EP	141528026		2778762
1647	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	ETD	MTR-Closed	EP	141528513		2819468
1648	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	FPD	APP-Closed	HK	151027162		1202351
1649	TECHNIQUES FOR MANAGING MOBILITY MANAGEMENT SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/046479		WO2012/021359
1650	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1651	METHOD SYSTEM AND APPARATUS FOR INITIATING COMMUNICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01188E+12	ZL201180032196	102948205
1652	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1653	TECHNIQUES FOR INITIATING COMMUNICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2012-7031419	10-1480598	10-2013-0023263
1654	TECHNIQUES FOR INITIATING COMMUNICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/031200		WO2011/139462
1655	TECHNIQUES FOR DYNAMIC SPECTRUM MANAGEMENT ALLOCATION AND SHARING	[redacted]	[redacted]	EPT	MTR-Closed	EP	118300466		2622891
1656	TECHNIQUES FOR DYNAMIC SPECTRUM MANAGEMENT ALLOCATION AND SHARING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/054483		WO2012/045085
1657	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1658	APPARATUS AND METHODS OF TIME DOMAIN MULTIPLEXING SOLUTIONS FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/054166		WO2012/048002
1659	COORDINATED MULTIPOINT COMMUNICATION NETWORK WITH MULTIPLE COOPERATING eNBs AND METHOD FOR BEAMFORMING COORDINATION WITH INTERFERENCE SUPPRESSION	[redacted]	[redacted]	EPT	MTR-Closed	EP	117938829		2636161
1660	COORDINATED MULTIPOINT COMMUNICATION NETWORK WITH MULTIPLE COOPERATING eNBs AND METHOD FOR BEAMFORMING COORDINATION WITH INTERFERENCE SUPPRESSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2011/000703		WO2012/060733
1661	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1662	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1663	ENHANCED NODE B AND METHOD FOR PRECODING WITH REDUCED QUANTIZATION ERROR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/059184		WO2012/061605
1664	APPARATUS SYSTEMS AND METHODS UTILIZING ADJACENT-CHANNEL POWER DEPENDENT AUTOMATIC GAIN CONTROL FOR DIGITAL TELEVISION DEMODULATION	[redacted]	[redacted]	NP	MTR-Closed	JP	2012-002111	5240635	2012-175701
1665	APPARATUS SYSTEMS AND METHODS UTILIZING ADJACENT-CHANNEL POWER DEPENDENT AUTOMATIC GAIN CONTROL FOR DIGITAL TELEVISION DEMODULATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/024711		WO2012/119085
1666	COORDINATED MULTI-POINT TRANSMISSION USING INTERFERENCE FEEDBACK	[redacted]	[redacted]	EPT	MTR-Closed	EP	118384700		2666244
1667	COORDINATED MULTI-POINT TRANSMISSION USING INTERFERENCE FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/057435		WO2012/061063

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1668	USER EQUIPMENT AND METHOD FOR CONTENTION-BASED COMMUNICATIONS OVER ALLOCATED PUSCH RESOURCES	[redacted]	[redacted]	DIV	APP-Closed	JP	2014-076884		2014-161049
1669	CONTENTION-BASED TRANSMISSION WITH CONTENTION-FREE FEEDBACK FOR REDUCING LATENCY IN LTE ADVANCED NETWORKS AND ENHANCED PUCCH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/027325		WO2011/109796
1670	TECHNIQUES FOR ALLOCATION OF CONTROL CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	EP	118168160		2603993
1671	TECHNIQUES FOR ALLOCATION OF CONTROL CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/048314		WO2012/021337
1672	MULTI USER MIMO DETECTION UTILIZING AVERAGED SPATIAL WHITENING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/045152		WO2013/066599
1673	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112013032943-2		112013032943-2
1674	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128035789		2727258
1675	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-519038	5745176	2014-518490
1676	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2013-7034985	10-1581701	10-2014-0026576
1677	METHOD AND APPARATUS FOR INTERFERENCE MITIGATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/044688		WO2013/003617
1678	RECEIVER WITH IMPROVED NOISE VARIANCE ESTIMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2012/000236		WO2013/147634
1679	PERSISTENT LOGICAL DATA TUNNELS	[redacted]	[redacted]	EPT	MTR-Closed	EP	118383959		2852928
1680	PERSISTENT LOGICAL DATA TUNNELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/049630		WO2012/060924
1681	PERSISTENT LOGICAL DATA TUNNELS	[redacted]	[redacted]	PCT	APP-Closed	US	13/883761		US-2013-0336305-A1
1682	HIGHER ORDER MU-MIMO FOR LTE-A	[redacted]	[redacted]	EPT	MTR-Closed	EP	118730627		2761771
1683	HIGHER ORDER MU-MIMO FOR LTE-A	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053903		WO2013/048401
1684	CO-PHASING OF TRANSMISSIONS FROM MULTIPLE INFRASTRUCTURE NODES	[redacted]	[redacted]	CNT	MTR-Closed	US	13/524146	8842626	US-2012-0257575-A1
1685	CO-PHASING OF TRANSMISSIONS FROM MULTIPLE INFRASTRUCTURE NODES	[redacted]	[redacted]	PCT	APP-Closed	CN	201180069796X		103430459
1686	CO-PHASING OF TRANSMISSIONS FROM MULTIPLE INFRASTRUCTURE NODES	[redacted]	[redacted]	EPT	MTR-Closed	EP	118583566		2673892
1687	CO-PHASING OF TRANSMISSIONS FROM MULTIPLE INFRASTRUCTURE NODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/054286		WO2012/108912
1688	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	EPT	APP-Closed	EP	128044617		2727415
1689	MOBILE DEVICE AND METHOD FOR AUTOMATIC CONNECTIVITY DATA OFFLOADING AND ROAMING BETWEEN NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/040470		WO2013/002956
1690	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/064494		WO2012/121757
1691	OPPORTUNISTIC CARRIER AGGREGATION FOR DYNAMIC FLOW SWITCHING BETWEEN RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	MTR-Closed	US	13/997224	9119154	US-2014-0043979-A1
1692	ONE GROUP PAGING SCHEME FOR MACHINE- TO-MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2011/084967		WO2013/097159
1693	ONE GROUP PAGING SCHEME FOR MACHINE-TO-MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	13/994798		US-2014-0181200-A1
1694	TECHNIQUES TO TRAIN A PERSONAL AREA NETWORK COMPONENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	118729409		2767114
1695	TECHNIQUES TO TRAIN A PERSONAL AREA NETWORK COMPONENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053677		WO2013/048387
1696	DIGITALLY-SCALABLE TRANSFORMER COMBINING POWER AMPLIFIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/056506		WO2013/048891
1697	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065793		WO2013/095328
1698	VOLTAGE-CONTROLLED OSCILLATOR WITH REDUCED SINGLE-ENDED CAPACITANCE	[redacted]	[redacted]	CNT	APP-Closed	US	14/753293		
1699	DUAL MODE VOLTAGE REGULATOR WITH RECONFIGURATION CAPABILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/027343		WO2013/130088
1700	CONTROL AND DATA PLANE SOLUTIONS FOR CARRIER-AGGREGATION BASED WLAN OFFLOAD	[redacted]	[redacted]	EPT	MTR-Closed	EP	118642073		2702800
1701	CONTROL AND DATA PLANE SOLUTIONS FOR CARRIER- AGGREGATION BASED WLAN OFFLOAD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066651		WO2012/148482
1702	CONTROL AND DATA PLANE SOLUTIONS FOR CARRIER-AGGREGATION BASED WLAN OFFLOAD	[redacted]	[redacted]	PCT	MTR-Closed	US	13/992013	9036473	US-2014-0050085-A1
1703	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Closed	EP	118644319		2702701
1704	SYSTEM AND METHOD OF RANK ADAPTATION IN MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053683		WO2012/148443
1705	SYSTEM AND METHOD OF CHANNEL CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	118643600		2702796
1706	SYSTEM AND METHOD OF CHANNEL CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053688		WO2012/148444
1707	METHODS AND SYSTEM FOR COMMUNICATING CONTROL INFORMATION USING CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053689		WO2012/148445
1708	SYSTEM AND METHOD OF MANAGING WIRELESS COMMUNICATIONS WITH MULTIPLE TRANSMISSION POINTS	[redacted]	[redacted]	EPT	MTR-Closed	EP	118645801		2707970
1709	SYSTEM AND METHOD OF MANAGING WIRELESS COMMUNICATIONS WITH MULTIPLE TRANSMISSION POINTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053690		WO2012/148446
1710	TECHNIQUES FOR MACHINE-TO-MACHINE DEVICE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0118E+12		103718590
1711	TECHNIQUES FOR MACHINE-TO-MACHINE DEVICE MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	118649730		2708057
1712	TECHNIQUES FOR MACHINE-TO-MACHINE DEVICE MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-515255	5755801	2014-514887
1713	TECHNIQUES FOR MACHINE-TO-MACHINE DEVICE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/053698		WO2012/154198
1714	MACHINE-TO-MACHINE (M2M) COMMUNICATIONS USING SHORT MESSAGE SERVICES (SMS)	[redacted]	[redacted]	EPT	MTR-Closed	EP	118693382		2732565
1715	MACHINE-TO-MACHINE (M2M) COMMUNICATIONS USING SHORT MESSAGE SERVICES (SMS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/063847		WO2013/009345
1716	OPTIMIZATION OF SMS TRANSMISSION OVER RADIO ACCESS NETWORKS FOR MACHINE-TO-MACHINE COMMUNICATIONS	[redacted]	[redacted]	PSP	APP-Closed	US	61/507927		
1717	MULTI-HOP SINGLE SIGN-ON (SSO) FOR IDENTITY PROVIDER (IDP) ROAMING/PROXY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065903		WO2013/019261
1718	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1719	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	NP	MTR-Closed	US	13/018465	8886143	US-2011-0195675-A1
1720	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01113E+12	ZL201110037590.7	102148626
1721	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1722	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	EPA	MTR-Closed	FR	1015795068	2355362	2355362
1723	RF TRANSCEIVER AND MODEM COMPRISING SUCH A TRANSCEIVER	[redacted]	[redacted]	EPA	MTR-Closed	GB	1015795068	2355362	2355362
1724	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1725	[redacted] FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	EPA	MTR-Closed	FR	111693826	2395797	2395797
1726	METHOD FOR CONTROLLING OPERATION ACTIVITY MODES OF A WIRELESS TELECOMMUNICATIONS TERMINAL	[redacted]	[redacted]	EPA	MTR-Closed	GB	111693826	2395797	2395797
1727	FINE RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/791686	8773190	US-2013-0234773-A1
1728	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1729	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	MTR-Closed	FR	121586002	2837312	2837312
1730	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	MTR-Closed	FR	121585822	2837311	2837311
1731	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	MTR-Closed	GB	121586002	2837312	2837312
1732	ALGORITHMS FOR RF TRANSCEIVER DC OFFSET CALIBRATION	[redacted]	[redacted]	EPA	MTR-Closed	GB	121585822	2837311	2837311
1733	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1734	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01178E+12		103797857
1735	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1736	EXTENDED ACCESS BARRING	[redacted]	[redacted]	EPR	APP-Closed	HK	141113701		1197712
1737	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066918		WO2013/022474
1738	EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	MTR-Closed	PH	1-2014-500284	1-2014-500284	
1739	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1740	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1741	PROCESSOR EXTENSIONS FOR ACCELERATING SPECTRAL BAND REPLICATION	[redacted]	[redacted]	NP	MTR-Closed	US	12/148747	8015368	US-2008-0263285-A1
1742	PROCESSOR EXTENSIONS FOR ACCELERATING SPECTRAL BAND REPLICATION	[redacted]	[redacted]	CNT	APP-Closed	US	13/191208		US-2012-0016602-A1
1743	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1744	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1745	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1746	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1747	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1748	WIRELESS WIDE AREA NETWORK (WWAN) ASSISTED PROXIMITY WIRELESS LOCAL AREA NETWORK (WLAN) PEER-TO-PEER (P2P) CONNECTION AND OFFLOADING	[redacted]	[redacted]	EPT	MTR-Closed	EP	118779784		2795686
1749	WIRELESS WIDE AREA NETWORK (WWAN) ASSISTED PROXIMITY WIRELESS LOCAL AREA NETWORK (WLAN) PEER-TO-PEER (P2P) CONNECTION AND OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066160		WO2013/095382
1750	STRUCTURED CODEBOOK FOR UNIFORM CIRCULAR ARRAY (UCA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/062742		WO2013/066194
1751	METHOD TO SUPPORT AN ASYMMETRIC TIME-DIVISION DUPLEX (TDD) CONFIGURATION IN A HETEROGENEOUS NETWORK (HetNet)	[redacted]	[redacted]	EPT	MTR-Closed	EP	118690387		2727262
1752	METHOD TO SUPPORT AN ASYMMETRIC TIME-DIVISION DUPLEX (TDD) CONFIGURATION IN A HETEROGENEOUS NETWORK (HetNet)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065508		WO2013/006197
1753	WIRELESS MODULE AND METHOD FOR LOCAL IP ACCESS PACKET DATA NETWORK RELEASE	[redacted]	[redacted]	EPT	MTR-Closed	EP	118702414		2740297
1754	WIRELESS MODULE AND METHOD FOR LOCAL IP ACCESS PACKET DATA NETWORK RELEASE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066570		WO2013/019263
1755	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1756	TECHNIQUES FOR MANAGING IDLE STATE ACTIVITY IN MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067408		WO2012/121784
1757	DISTRIBUTED ANTENNA SYSTEM AND METHOD FOR ENHANCED POSITIONING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01118E+12		103703385
1758	DISTRIBUTED ANTENNA SYSTEM AND METHOD FOR ENHANCED POSITIONING	[redacted]	[redacted]	EPT	MTR-Closed	EP	118694354		2684068
1759	DISTRIBUTED ANTENNA SYSTEM AND METHOD FOR ENHANCED POSITIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065542		WO2012/121778
1760	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	AU	2011374261		2011374261
1761	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067416		WO2013/019267
1762	SYSTEM AND METHOD FOR ADAPTING VIDEO COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	PH	1-2014-500255		1-2014-500255
1763	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1764	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2016-7028085		10-2016-0121605
1765	REFERENCE SIGNAL GENERATION AND DETERMINING REFERENCE SIGNAL RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/064195		WO2012/148475
1766	NETWORK REENTRY OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	118653047		2708079
1767	NETWORK REENTRY OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2013-7029621		10-2014-0006978
1768	NETWORK REENTRY OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/062746		WO2012/154210
1769	NETWORK REENTRY OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	US	13/812509	8797987	US-2014-0156229-A1
1770	SYSTEM AND METHOD FOR MANAGING MULTI-RADIO COMMUNICATIONS IN A SINGLE DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067550		WO2013/006198
1771	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1772	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7002377		10-2014-0031381
1773	USER EQUIPMENT INITIATED DISCONTINUOUS OPERATION IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/044670		WO2013/006381
1774	A DUAL MODE VOLTAGE REGULATOR WITH DYNAMIC RECONFIGURATION CAPABILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066868		WO2013/095514
1775	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1776	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1777	TRANSMITTER CIRCUIT AND METHOD	[redacted]	[redacted]	NP	APP-Closed	CN	2.01211E+12		102858000
1778	RADIO RECEIVER APPARATUS OF A CELLULAR RADIO NETWORK	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01211E+12	CN201210498948	103139859
1779	FUNKEMPFANGSGERAT UND NETZ-CONTROLLER EINES MOBILFUNKNETZES	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02012E+12	1.02012E+11	1.02012E+11

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1780	DYNAMIC ACTIVATION OF RECEIVE DIVERSITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2012/067483		WO2013/045252
1781	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1782	VOLTAGE REGULATOR WITH ADAPTIVE CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/036014		WO2013/165401
1783	SYSTEM AND METHOD FOR PROCESSING TRACE INFORMATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/426900	8524796	US-2013-0254596-A1
1784	SYSTEM HAVING TRACE RESOURCES	[redacted]	[redacted]	NP	MTR-Closed	US	13/337408	9037888	US-2013-0166701-A1
1785	System mit Ressourcen zur Ablaufverfolgung	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02012E+12		1.02012E+11
1786	CANCELLATION OF RF SECOND-ORDER INTERMODULATION DISTORTION	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01311E+12	ZL201310090177.8	103246393
1787	CANCELLATION OF RF SECOND-ORDER INTERMODULATION DISTORTION	[redacted]	[redacted]	NP	MTR-Closed	US	13/372413	8843082	US-2013-0210375-A1
1788	CANCELLATION OF RF SECOND-ORDER INTERMODULATION DISTORTION	[redacted]	[redacted]	NP	MTR-Closed	US	13/396612	8744363	US-2013-0208831-A1
1789	DIVIDER METHOD FOR PROVIDING AN OUTPUT SIGNAL AND EDGE TRACKER	[redacted]	[redacted]	NP	MTR-Closed	US	13/493501	8744037	US-2013-0329894-A1
1790	TEILER VERFAHREN ZUM BEREITSTELLEN EINES AUSGANGSSIGNALS UND FLANKENVERFOLGER	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
1791	DTC-SYSTEM WITH HIGH RESOLUTION PHASE ALIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2012/076389		WO2013/092867
1792	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12011E+12		1.12011E+11
1793	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	GB	14022099	2511210	2511210
1794	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7008185	10-1560603	10-2014-0068107
1795	CHANGING THE MACHINE-TO-MACHINE (M2M) GROUP OF AN M2M DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065379		WO2013/089766
1796	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12011E+12		1.12011E+11
1797	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7002272		10-2014-0034289
1798	RESOURCE SCHEDULING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067343		WO2013/089346
1799	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	BE	118705886	2742614	2742614
1800	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	CH	118705886	2742614	2742614
1801	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1802	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1803	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	CZ	118705886	2742614	2742614
1804	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DK	118705886	2742614	2742614
1805	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	ETB	MTR-Closed	EP	151965886		3021554
1806	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FI	118705886	2742614	2742614
1807	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	IE	118705886	2742614	2742614
1808	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	IT	118705886	2742614	2742614
1809	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NO	118705886	2742614	2742614
1810	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065586		WO2013/022470
1811	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	PL	118705886	2742614	2742614
1812	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	PT	118705886	2742614	2742614
1813	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	RO	118705886	2742614	2742614
1814	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SE	118705886	2742614	2742614
1815	METHODS FOR SWITCHING BETWEEN A MBMS DOWNLOAD AND AN HTTP-BASED DELIVERY OF DASH FORMATTED CONTENT OVER AN IMS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	TR	118705886	2742614	2742614
1816	ASSOCIATION BIASING FOR A HETEROGENEOUS NETWORK (HetNet)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/049801		WO2013/025379
1817	ASSOCIATION BIASING FOR A HETEROGENEOUS NETWORK (HetNet)	[redacted]	[redacted]	NP	MTR-Closed	RU	2011154105	2491628	2011154105
1818	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2015-7016644		10-2015-0079514
1819	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066166		WO2013/006198
1820	TECHNOLOGY FOR CSI FEEDBACK IN A MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01E+12	ZL201180070079	103493391
1821	TECHNOLOGY FOR CSI FEEDBACK IN A MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	118642065		2702700
1822	TECHNOLOGY FOR CSI FEEDBACK IN A MIMO COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065853		WO2012/148478
1823	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	118708619		2742755
1824	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-525001		2014-522198
1825	FORMING CARRIER AGGREGATION TIMING ADVANCE GROUPS IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066212		WO2013/025237
1826	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-548773	5859674	2015-503308
1827	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7017745	10-1800370	10-2014-0096390
1828	METHOD AND SYSTEM FOR COEXISTENCE OF MULTIPLE COLLOCATED RADIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067414		WO2013/100910
1829	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1830	NEAR FIELD COMMUNICATIONS (NFC) COIL AND PROXIMITY SENSOR FOR PORTABLE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/029301		WO2013/137892
1831	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-550265	5873065	2015-509311
1832	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067928		WO2013/101106
1833	WIRELESS DEVICE AND METHOD FOR ANTENNA SELECTION	[redacted]	[redacted]	PCT	APP-Closed	US	13/992491		US-2014-0269977-A1
1834	UPDATING CHANNEL STATE INFORMATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	128242930		2742619
1835	UPDATING CHANNEL STATE INFORMATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031329		WO2013/025258
1836	TECHNIQUES TO SIMULTANEOUSLY TRANSMIT AND RECEIVE OVER THE SAME RADIO-FREQUENCY CARRIER	[redacted]	[redacted]	EPT	MTR-Closed	EP	118781640		2758759

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1837	TECHNIQUES TO SIMULTANEOUSLY TRANSMIT AND RECEIVE OVER THE SAME RADIO-FREQUENCY CARRIER	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-548752	5808870	2015-501117
1838	TECHNIQUES TO SIMULTANEOUSLY TRANSMIT AND RECEIVE OVER THE SAME RADIO-FREQUENCY CARRIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066181		WO2013/095386
1839	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1840	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRLESS ACCESS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	13/531111	8774804	US-2013-0168118-A1
1841	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRLESS ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/057443		WO2013/066531
1842	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1843	ACCURATE UPLINK POWER CONTROL FOR COMP AND C-RAN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067936		WO2013/006200
1844	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112014002573-8		112014002573-8
1845	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01168E+12	ZL201180073132.1	103797771
1846	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-523910	5805873	2014-526204
1847	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7004819	10-1591815	10-2014-0041889
1848	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066572		WO2013/019264
1849	METHOD AND APPARATUS FOR M2M DEVICE SUBSCRIPTION	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014107669	2580001	2014107669
1850	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1851	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1852	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	EP	11870/3750		2740236
1853	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-523909	5763274	2014-522184
1854	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7004856		10-2014-0043484
1855	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065349		WO2013/019260
1856	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014107670	2575812	2014107670
1857	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1858	MACHINE-TO MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	ETO	APP-Closed	EP	161810924		3101829
1859	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/066863		WO2012/148484
1860	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	US	13/977466		US-2014-0036669-A1
1861	MACHINE-TO-MACHINE COMMUNICATION DEVICE AND METHOD FOR PROVIDING ENHANCED ACCESS BARRING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	APP-Closed	US	15/189399		US-2016-0302135-A1
1862	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01188E+12		103988441
1863	WIRELESS COMMUNICATION DEVICE USING TIME-VARIANT ANTENNA MODULE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065629		WO2013/089790
1864	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1865	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-518553		2014-523181
1866	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/036763		WO2013/006219
1867	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0128E+12		103850377
1868	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12012E+12		1.12012E+11
1869	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	GB	14003164	2509403	2509403
1870	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7010772	10-1560649	10-2014-0029519
1871	REPORTING POWER DISRUPTIONS OF MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/023533		WO2013/069355
1872	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12012E+12		1.12012E+11
1873	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	MTR-Closed	GB	14002836	2506079	2506079
1874	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7002324	10-1564951	10-2014-0027531
1875	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2015-7017541		10-2015-0083106
1876	ONE METHOD OF DELEGATE-BASED GROUP CHANNEL ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/036276		WO2013/009380
1877	SYSTEM AND METHOD OF UPLINK POWER CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	118708528		2742748
1878	SYSTEM AND METHOD OF UPLINK POWER CONTROL IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/065806		WO2013/025236
1879	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1880	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0138E+12		103828469
1881	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	DE	1.12011E+12		1.12011E+11
1882	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	GB	14024947	2508316	2508316
1883	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7008091		10-2014-0054373
1884	SYSTEM AND METHOD FOR IMPROVING NETWORK ACCESS IN MACHINE TO MACHINE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/067417		WO2013/039543
1885	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1886	DATABASE COORDINATOR PROCESSOR AND METHOD FOR PROVIDING CERTIFICATION INFORMATION	[redacted]	[redacted]	EPA	MTR-Closed	EP	121874002		2592854
1887	OPTIMIZATION OF DATA HANDOVER TO WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01211E+12	ZL201210561242.9	103179678
1888	OPTIMIERUNG DES DATEN-HANDOVERS ZU WIRELESS WIDE AREA NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02012E+12	1.02012E+11	1.02012E+11
1889	COMBINING IN RECEIVE DIVERSITY SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	US	13/528137	9083416	US-2013-0343494-A1
1890	KOMBINIEREN IN EMPFANGSDIVERSIRUTS-SYSTEMEN	[redacted]	[redacted]	NP	APP-Closed	DE	1.02013E+12		1.02013E+11
1891	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1892	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380018346.8	104205675

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1893	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	13768222S		2832014
1894	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7027606	10-1618185	10-2014-0135057
1895	TECHNIQUES TO MANAGE GROUP CONTROLING SIGNALING FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/033863		WO2013/148671
1896	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01286E+12		104221452
1897	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	12873345S		2832103
1898	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-508740		2015-516723
1899	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/079103		WO2013/143066
1900	TECHNIQUES TO MANAGE PAGING CYCLES FOR MACHINE-TO-MACHINE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	US	13/977008		US-2014-0198738-A1
1901	WIRELESS COMMUNICATION SYSTEM WITH COMMON CELL ID	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01138E+12		103444095
1902	WIRELESS COMMUNICATION SYSTEM WITH COMMON CELL ID	[redacted]	[redacted]	EPT	MTR-Closed	EP	11858127 1		2673890
1903	WIRELESS COMMUNICATION SYSTEM WITH COMMON CELL ID	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/064575		WO2012/108928
1904	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1905	RANDOM BACKOFF FOR EXTENDED ACCESS BARRING	[redacted]	[redacted]	EPT	MTR-Closed	EP	128486834		2777355
1906	RANDOM BACKOFF FOR EXTENDED ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/064567		WO2013/071240
1907	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1908	TRANSMISSION AND DETECTION IN MULTIPLE-ANTENNA TRANSMISSION SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	US	13/474775	9054898	US-2013-0308685-A1
1909	UBERTRAGUNG UND DETEKTION IN MEHRANTENNEN-UBERTRAGUNGSSYSTEMEN	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
1910	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1911	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
1912	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	AT	128367182	2761776	2761776
1913	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01286E+12		104081682
1914	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	DE	128367182	6.02012E+12	2761776
1915	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	EE	128367182	2761776	2761776
1916	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128367182	2761776	2761776
1917	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	ES	128367182	2761776	2761776
1918	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	FR	128367182	2761776	2761776
1919	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	GB	128367182	2761776	2761776
1920	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	GR	128367182	2761776	2761776
1921	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	HU	128367182	2761776	2761776
1922	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	NL	128367182	2761776	2761776
1923	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031692		WO2013/048568
1924	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	EPT	MTR-Closed	SK	128367182	2761776	2761776
1925	GEOGRAPHICALLY ISOLATED ANTENNAS	[redacted]	[redacted]	PCT	MTR-Closed	US	13/996694	9113489	US-2014-0313920-A1
1926	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	AT	128361953	2761798	2761798
1927	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	BE	128361953	2761798	2761798
1928	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	CH	128361953	2761798	2761798
1929	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01286E+12	ZL201280048058 2	103843268
1930	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	DE	128361953	6.02012E+12	2761798
1931	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	EE	128361953	2761798	2761798
1932	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	128361953	2761798	2761798
1933	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	ES	128361953	2761798	2761798
1934	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	FR	128361953	2761798	2761798
1935	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	GB	128361953	2761798	2761798
1936	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	GR	128361953	2761798	2761798
1937	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	HU	128361953	2761798	2761798
1938	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	IE	128361953	2761798	2761798
1939	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	NL	128361953	2761798	2761798
1940	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031000		WO2013/048569
1941	IMPROVING CARRIER AGGREGATION PERFORMANCE	[redacted]	[redacted]	EPT	MTR-Closed	SK	128361953	2761798	2761798
1942	UPLINK POWER CONTROL SIGNALING WITH CARRIER AGGREGATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01286E+12	ZL201280059030 9	103947266
1943	UPLINK POWER CONTROL SIGNALING WITH CARRIER AGGREGATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	128368065		2761941
1944	UPLINK POWER CONTROL SIGNALING WITH CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/033014		WO2013/048570
1945	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	AT	128354685	2761940	2761940
1946	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	EE	128354685	2761940	2761940
1947	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	ES	128354685	2761940	2761940
1948	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	FR	128354685	2761940	2761940
1949	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	GB	128354685	2761940	2761940
1950	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	GR	128354685	2761940	2761940
1951	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	HU	128354685	2761940	2761940
1952	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	NL	128354685	2761940	2761940
1953	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/041709		WO2013/048592
1954	TECHNIQUES FOR UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	SK	128354685	2761940	2761940
1955	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
1956	METHODS TO TRANSPORT INTERNET TRAFFIC OVER MULTIPLE WIRELESS NETWORKS SIMULTANEOUSLY	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201288050907811	103947249
1957	METHODS TO TRANSPORT INTERNET TRAFFIC OVER MULTIPLE WIRELESS NETWORKS SIMULTANEOUSLY	[redacted]	[redacted]	EPT	MTR-Closed	EP	128347815		2761927
1958	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1959	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1960	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1961	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1962	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1963	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1964	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1965	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1966	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1967	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1968	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1969	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1970	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
1971	METHODS TO TRANSPORT INTERNET TRAFFIC OVER MULTIPLE WIRELESS NETWORKS SIMULTANEOUSLY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031145		WO2013/048567
1972	MAPPING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/082519		WO2013/044878
1973	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	AT	128358512	2761788	2761788
1974	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Closed	CN	201280059134X		103999385
1975	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	128358512	6.02012E+12	2761788
1976	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	ES	128358512	2761788	2761788
1977	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	128358512	2761788	2761788
1978	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	ES	128358512	2761788	2761788
1979	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	128358512	2761788	2761788
1980	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	128358512	2761788	2761788
1981	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	GR	128358512	2761788	2761788
1982	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	HU	128358512	2761788	2761788
1983	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	NL	128358512	2761788	2761788
1984	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/037757		WO2013/048582
1985	INTER-NODE INTERFERENCE CANCELLATION	[redacted]	[redacted]	EPT	MTR-Closed	SK	128358512	2761788	2761788
1986	RESCHEDULING OF A RESOURCE COMPONENT OF LOW POWER NODES (LPNs) IN A COORDINATION SET	[redacted]	[redacted]	EPT	MTR-Closed	EP	128371002		2771990
1987	RESCHEDULING OF A RESOURCE COMPONENT OF LOW POWER NODES (LPNs) IN A COORDINATION SET	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/037715		WO2013/048581
1988	DISCONTINUOUS RECEPTION IN A WIRELESS DEVICE FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01E+12	ZL201280059025B	103947278
1989	DISCONTINUOUS RECEPTION IN A WIRELESS DEVICE FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	128365863		2761961
1990	DISCONTINUOUS RECEPTION IN A WIRELESS DEVICE FOR IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/033080		WO2013/048571
1991	CHANNEL STATE INFORMATION FEEDBACK IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201288054281B	104025657
1992	CHANNEL STATE INFORMATION FEEDBACK IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	128451101		2774417
1993	CHANNEL STATE INFORMATION FEEDBACK IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2012/000172		WO2013/066203
1994	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-539905		2014-533033
1995	TRANSMISSION POINT INDICATION IN COORDINATED MULTI-POINT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2012/000235		WO2013/066205
1996	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	AT	12846485G	2774300	2774300
1997	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	AU	2012333239		2012333239
1998	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCD	MTR-Closed	AU	2015261598	2015261598	2015261598
1999	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	BE	128464856	2774300	2774300
2000	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2001	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	CA	2853238		2853238
2002	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	CH	128464856	2774300	2774300
2003	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201288054293B	103959691
2004	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	DE	128464856	6.02012E+12	2774300
2005	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	ES	128464856	2774300	2774300
2006	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	EP	128464856	2774300	2774300
2007	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	ES	128464856	2774300	2774300
2008	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	FR	128464856	2774300	2774300
2009	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	GB	128464856	2774300	2774300
2010	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	GR	128464856	2774300	2774300
2011	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	HU	128464856	2774300	2774300
2012	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	IE	128464856	2774300	2774300
2013	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-539928	5852253	2014-534795

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2014	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCD	APP-Closed	JP	2015-235687		2016-059062
2015	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	NL	12846485 6	2774300	2774300
2016	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031036		WO2013/066385
2017	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014117688	2586670	
2018	DOWNLINK RESOURCE SCHEDULING	[redacted]	[redacted]	EPT	MTR-Closed	SK	12846485 6	2774300	2774300
2019	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112014010606-1		112014010606-1
2020	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01286E+12	ZL201280054291 1	103907301
2021	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	12844776 0	2774294	2774294
2022	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2023	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	BE	12844776 0	2774294	2774294
2024	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	CH	12844776 0	2774294	2774294
2025	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	12844776 0	2774294	2774294
2026	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2027									
2028	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	12844776 0	2774294	2774294
2029	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	12844776 0	2774294	2774294
2030	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2031									
2032	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	EPT	MTR-Closed	IE	12844776 0	2774294	2774294
2033	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2034									
2035									
2036	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-539921	5885854	2014-533034
2037	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7011908	10-1599058	10-2014-0084110
2038	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031039		WO2013/066388
2039	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014117686	2573393	2014117686
2040	SEARCH SPACE DETERMINATION	[redacted]	[redacted]	PCT	MTR-Closed	US	13/810890	8755348	US-2013-0183951-A1
2041	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2042	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2853239	2853239	2853239
2043	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2044	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031040		WO2013/066387
2045	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2046	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201280054279 0	103907389
2047	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	12844877 4		2774440
2048	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2049	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-539934	5845545	2014-534769
2050	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7012054	10-1577245	10-2014-0072185
2051	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2015-7031772		10-2015-0055115
2052	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/HU2012/000234		WO2013/066204
2053	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	AT	12846166 2	2774278	2774278
2054	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0128E+12		103959872
2055	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	12846166 2	6.02012E+12	2774278
2056	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	12846166 2	2774278	2774278
2057	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	FR	12846166 2	2774278	2774278
2058	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	12846166 2	2774278	2774278
2059	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	FR	12846166 2	2774278	2774278
2060	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	12846166 2	2774278	2774278
2061	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	GR	12846166 2	2774278	2774278
2062	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	HU	12846166 2	2774278	2774278
2063	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	NL	12846166 2	2774278	2774278
2064	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/062709		WO2013/066956
2065	DYNAMIC POINT SELECTION VIA A COORDINATING SET OF BASE STATIONS	[redacted]	[redacted]	EPT	MTR-Closed	SK	12846166 2	2774278	2774278
2066	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	12845315 6		2774404
2067	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2068	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2069	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2070	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2071	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2072	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2074	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2075	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2076	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2077	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2078	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2079	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2080	METHOD AND SYSTEMS OF SON COORDINATION IN 4G CELLULAR NETWORKS	[redacted]	[redacted]	PPR	APP-Closed	HK			
2081	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7011844		10-2014-0088128
2082	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2016-7007007		10-2016-0037241
2083	COORDINATION OF SELF-OPTIMIZATION OPERATIONS IN A SELF ORGANIZING NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/029808		WO2013/066383
2084	SYSTEM APPARATUS AND METHOD FOR INDIVIDUAL AND GROUP PAGING A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201280059351.9	103947135
2085	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	12845296.8		2774283
2086	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-539924	5810398	2014-533035
2087	INDIVIDUAL AND GROUP PAGING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/033960		WO2013/066396
2088	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	12846449.2	2774451	2774451
2089	SMALL DATA TECHNIQUES AND CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031042		WO2013/066388
2090	TECHNIQUES FOR TRAFFIC DELIVERY TO A GROUP OF DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201280059191.8	103959683
2091	TECHNIQUES FOR TRAFFIC DELIVERY TO A GROUP OF DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	12845978.1		2774284
2092	TECHNIQUES FOR TRAFFIC DELIVERY TO A GROUP OF DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/031028		WO2013/066384
2093	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2094	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	AT	12865193.2	2742621	2742621
2095	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	BE	12865193.2	2742621	2742621
2096	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2097	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	CH	12865193.2	2742621	2742621
2098	METHOD AND APPARATUS FOR REDUCING SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01288E+12	ZL201280042484.5	103765798
2099	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	CZ	12865193.2	2742621	2742621
2100	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	DE	12865193.2	6.02012E+12	2742621
2101	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	DK	12865193.2	2742621	2742621
2102	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	EE	12865193.2	2742621	2742621
2103	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	12865193.2	2742621	2742621
2104	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	ES	12865193.2	2742621	2742621
2105	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	FI	12865193.2	2742621	2742621
2106	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	FR	12865193.2	2742621	2742621
2107	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	GB	12865193.2	2742621	2742621
2108	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	GR	12865193.2	2742621	2742621
2109	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	HU	12865193.2	2742621	2742621
2110	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	IE	12865193.2	2742621	2742621
2111	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	IT	12865193.2	2742621	2742621
2112	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-525506	5763275	2014-527355
2113	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2015-7020387		10-2015-0092356
2114	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	NL	12865193.2	2742621	2742621
2115	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	NO	12865193.2	2742621	2742621
2116	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/032922		WO2013/106065
2117	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	PL	12865193.2	2742621	2742621
2118	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	PT	12865193.2	2742621	2742621
2119	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	RO	12865193.2	2742621	2742621
2120	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014107661	2578686	2014107661
2121	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	SE	12865193.2	2742621	2742621
2122	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	SK	12865193.2	2742621	2742621
2123	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	EPT	MTR-Closed	TR	12865193.2	2742621	2742621
2124	REDUCED SIGNALING OVERHEAD DURING RADIO RESOURCE CONTROL (RRC) STATE TRANSITIONS	[redacted]	[redacted]	PCT	APP-Closed	US	13/997740		US-2014-0265976-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2125	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	AU	2012376802		2012376802
2126	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01328E+12		104350692
2127	OPERATOR-ASSISTED DEVICE-TO-DEVICE (D2D) DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/032987		WO2013/154646
2128	TECHNIQUES FOR COORDINATED UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	MTR-Closed	EP	137413365		2807872
2129	TECHNIQUES FOR COORDINATED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/021582		WO2013/112321
2130	METHOD FOR CONTROLLING RECEIVING DIVERSITY OF A RECEIVER AND A MOBILE STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/000116		WO2013/109950
2131	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	APP-Closed	US	14/562783		US-2015-0148089-A1
2132	COMMUNICATION DEVICES AND METHODS FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103378912
2133	APPARATUS AND METHOD FOR DETERMINING A PRECODING MATRIX	[redacted]	[redacted]	NP	MTR-Closed	US	13/468469	8781027	US-2013-0301751-A1
2134	APPARATUS AND METHOD FOR DETERMINING A PRECODING MATRIX	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01311E+12	ZL201310250971.7	103427950
2135	CONTROLLING A POWER LEVEL OF AN UPLINK CONTROL CHANNEL	[redacted]	[redacted]	NP	APP-Closed	US	13/530722		US-2013-0188540-A1
2136	CONTROLLING A POWER LEVEL OF AN UPLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	MTR-Closed	EP	137418327		2807871
2137	CONTROLLING A POWER LEVEL OF AN UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022381		WO2013/112401
2138	CENTRALIZED CONTROL OF INTRA-CELL DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	APP-Closed	US	13/537568		US-2013-0195026-A1
2139	CENTRALIZED CONTROL OF INTRA-CELL DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	137412243		2807898
2140	CENTRALIZED CONTROL OF INTRA-CELL DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-554774		2015-510333
2141	CENTRALIZED CONTROL OF INTRA-CELL DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022533		WO2013/112468
2142	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	13/630008	9060313	US-2013-0188569-A1
2143	ACKNOWLEDGEMENT SIGNALING IN A WIRELESS COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/020977		WO2013/112292
2144	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	CNT	APP-Closed	US	15/842457		
2145	DYNAMIC UPLINK AND DOWNLINK CONFIGURATION USING FLEXIBLE SUBFRAMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022165		WO2013/112372
2146	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	NP	APP-Closed	US	13/747561		US-2013-0188533-A1
2147	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	AT	128666484	2807879	2807879
2148	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	DE	128666484	6.02012E+12	2807879
2149	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	EE	128666484	2807879	2807879
2150	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128666484	2807879	2807879
2151	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	ES	128666484	2807879	2807879
2152	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	FR	128666484	2807879	2807879
2153	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	GB	128666484	2807879	2807879
2154	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	GR	128666484	2807879	2807879
2155	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	HU	128666484	2807879	2807879
2156	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	NL	128666484	2807879	2807879
2157	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/085913		WO2013/110228
2158	DYNAMIC DIRECTION CHANGING IN TIME DIVISION DUPLEX RADIOS	[redacted]	[redacted]	EPT	MTR-Closed	SK	128666484	2807879	2807879
2159	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	128366721	2761770	2761770
2160	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	128366721	2761770	2761770
2161	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	128366721	2761770	2761770
2162	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	128366721	2761770	2761770
2163	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	128366721	2761770	2761770
2164	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	128366721	2761770	2761770
2165	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	128366721	2761770	2761770
2166	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	128366721	2761770	2761770
2167	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/057782		WO2013/049479
2168	JOINT TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	128366721	2761770	2761770
2169	Joint Transmission in a Wireless Network	[redacted]	[redacted]	PCT	APP-Closed	US	14/124278		US-2014-0105109-A1
2170	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	AT	128216561	2742741	2742741
2171	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	EE	128216561	2742741	2742741
2172	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	ES	128216561	2742741	2742741
2173	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	FR	128216561	2742741	2742741
2174	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	GB	128216561	2742741	2742741
2175	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	GR	128216561	2742741	2742741
2176	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	HU	128216561	2742741	2742741
2177	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	NL	128216561	2742741	2742741
2178	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/036798		WO2013/022505
2179	INTER-RAT (RADIO ACCESS TECHNOLOGY) ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	SK	128216561	2742741	2742741
2180	METHOD FOR OPERATING A TRANSCEIVER CIRCUIT AND TRANSCEIVER CIRCUIT	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103684723
2181	METHODS AND APPARATUSES FOR RATE ADAPTATION OF QUALITY OF SERVICE BASED APPLICATION	[redacted]	[redacted]	CNT	APP-Closed	US	14/549680		US-2015-0195738-A1
2182	MOBILKOMMUNIKATIONSVORRICHTUNGEN VERFAHREN ZUM DURCHFÜHREN VON SIGNALEMPFANGSQUALITÄTSMESSUNGEN UND VERFAHREN ZUM ERMITTELN EINER BEWEGUNG EINER MOBILKOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02012E+12		1.02012E+11
2183	CIRCUIT AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2012/076405		WO2013/092878
2184	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2185	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2186	ENHANCED POWER MANAGEMENT IN COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Closed	CN	2.01811E+12		108738119
2187	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2188	COOPERATIVE RADIO ACCESS NETWORK WITH CENTRALIZED BASE STATION BASEBAND UNIT (BBU) PROCESSING POOL	[redacted]	[redacted]	EPT	MTR-Closed	EP	128694742		2818002
2189	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
2190	METHOD FOR PROVIDING A COMMUNICATION SESSION AND DEVICE	[redacted]	[redacted]	NP	APP-Closed	US	13/773813		US-2013-0227149-A1
2191	REMOTE MANAGEMENT AND CONTROL OF VEHICULAR FUNCTIONS VIA MULTIPLE NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048011		WO2014/004745

	A	B	C	D	E	F	G	H	I
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2192	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01338E+12		104186004
2193	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	EPT	MTR-Closed	EP	137571857		2823654
2194	DEVICE SYSTEM AND METHOD OF CONTROLLING ACCESS TO LOCATION SOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/029350		WO2013/134373
2195	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2196	DEVICES FOR SYNCHRONIZING A COMMUNICATION END DEVICE WITH A BASE STATION METHODS FOR SYNCHRONIZING A COMMUNICATION END DEVICE WITH A BASE STATION DEVICES FOR GENERATING A SECONDARY SYNCHRONIZATION SIGNAL AND METHODS FOR GENERATING A SECONDARY SYNCHRONIZATION SIG	[redacted]	[redacted]	NP	MTR-Closed	US	13/484435	8964723	US-2013-0321042-A1
2197	VORRICHTUNGEN ZUM SYNCHRONISIEREN EINES KOMMUNIKATIONSENDGERÄTS MIT EINER BASISSTATION VERFAHREN ZUM SYNCHRONISIEREN EINES KOMMUNIKATIONSENDGERÄTS MIT EINER BASISSTATION VORRICHTUNGEN ZUM ERZEUGEN EINES SEKUNDÄREN SYNCHRONISATIONSSIGNALS UND VERFAHREN ZUM ERZEUGEN EINES SEKUNDÄREN SYNCHRONISATIONSSIGNALS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12	1.02013E+11	1.02013E+13
2198	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2199	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2200	SCHALTUNG ZUR SIGNALVERARBEITUNG UND DURCH EINE SOLCHE SCHALTUNG AUSGEFÜHRTES VERFAHREN	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2201	RECEIVER RECEIVER CIRCUITS AND METHODS FOR PROVIDING AN INTERFERENCE-REDUCED SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01311E+12	ZL201310656124G	103873080
2202	RECEIVER RECEIVER CIRCUITS AND METHODS FOR PORVIDING AN INTERFERENCE-REDUCED SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2203	INTERFERENCE AND NOISE ESTIMATION OF A COMMUNICATIONS CHANNEL	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01311E+12	ZL201310378496	103685091
2204	INTERFERENZ- UND RAUSCHSCHÄTZUNG EINES KOMMUNIKATIONSKANALS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2205	METHOD OF PROCESSING SIGNALS AND A SIGNAL PROCESSOR	[redacted]	[redacted]	NP	MTR-Closed	US	13/524143	8891481	US-2013-0336133-A1
2206	VERFAHREN ZUM VERARBEITEN VON SIGNALEN UND SIGNALPROZESSOR	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2207	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2208	MULTICAST/BROADCAST SERVICE CONTINUITY IN MULTI-CARRIER NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/057483		WO2013/049301
2209	TIMING SYNCHRONIZATION FOR DOWNLINK (DL) TRANSMISSIONS IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/040918		WO2013/066412
2210	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	AT	128460912	2774427	2774427
2211	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	EE	128460912	2774427	2774427
2212	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	ES	128460912	2774427	2774427
2213	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	FR	128460912	2774427	2774427
2214	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	GB	128460912	2774427	2774427
2215	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	GR	128460912	2774427	2774427
2216	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	HU	128460912	2774427	2774427
2217	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGGREGATION ENVIRONMENT	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-540042	5819549	2014-534775
2218	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	NL	128460912	2774427	2774427
2219	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/062827		WO2013/067030
2220	PATH-LOSS ESTIMATION FOR UPLINK POWER CONTROL IN A CARRIER AGREGATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	SK	128460912	2774427	2774427
2221	UPLINK SYNCHRONIZATION WITH MULTIPLE TIMING ADVANCES IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	NP	APP-Closed	US	13/538799		US-2013-0114572-A1
2222	UPLINK SYNCHRONIZATION WITH MULTIPLE TIMING ADVANCES IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	128457645		2774296
2223	UPLINK SYNCHRONIZATION WITH MULTIPLE TIMING ADVANCES IN A WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063283		WO2013/067310
2224	SIMULTANEOUS TRANSMISSION OF DIFFERENT TYPES OF FEEDBACK INFORMATION IN A WIRELESS ENVIRONMENT	[redacted]	[redacted]	NP	MTR-Closed	US	13/538813	9100951	US-2013-0170483-A1
2225	SIMULTANEOUS TRANSMISSION OF DIFFERENT TYPES OF FEEDBACK INFORMATION IN A WIRELESS ENVIRONMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	128452349		2774307
2226	SIMULTANEOUS TRANSMISSION OF DIFFERENT TYPES OF FEEDBACK INFORMATION IN A WIRELESS ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063328		WO2013/067354
2227	NARROW BANDWIDTH DEVICE IN A BROADBAND NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	128464146		2774299
2228	NARROW BANDWIDTH DEVICE IN A BROADBAND NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-540144		2015-503264
2229	NARROW BANDWIDTH DEVICE IN A BROADBAND NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063369		WO2013/067386
2230	USER EQUIPMENT (UE)-SPECIFIC ASSIGNMENT OF DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCES TO SUPPORT UPLINK (UL) COORDINATED MULTIPOINT (CoMP)	[redacted]	[redacted]	EPT	MTR-Closed	EP	128458619		2774297
2231	USER EQUIPMENT (UE)-SPECIFIC ASSIGNMENT OF DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCES TO SUPPORT UPLINK (UL) COORDINATED MULTIPOINT (CoMP)	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-540170	5897144	2014-533051
2232	USER EQUIPMENT (UE)-SPECIFIC ASSIGNMENT OF DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCES TO SUPPORT UPLINK (UL) COORDINATED MULTIPOINT (CoMP)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063466		WO2013/067463

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2233	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	ETD	APP-Closed	EP	171988680		3291456
2234	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	EPT	MTR-Closed	HU	12777684	2702826	2702826
2235	TRUSTED WLAN CONNECTIVITY TO 3GPP EVOLVED PACKET CORE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/035568		WO2012/149403
2236	EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK	[redacted]	[redacted]	NP	MTR-Closed	US	13/525509	8553478	US-2013-0334943-A1
2237	EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK	[redacted]	[redacted]	EPT	MTR-Closed	EP	137415527		2807758
2238	EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022757		WO2013/112594
2239	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	NP	APP-Closed	US	13/534463		US-2013-0188502-A1
2240	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	AT	137416319	2807890	2807890
2241	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	DE	137416319	6.02013E+12	2807890
2242	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	EE	137416319	2807890	2807890
2243	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137416319	2807890	2807890
2244	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	ES	137416319	2807890	2807890
2245	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	FR	137416319	2807890	2807890
2246	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	GB	137416319	2807890	2807890
2247	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	GR	137416319	2807890	2807890
2248	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	HU	137416319	2807890	2807890
2249	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	NL	137416319	2807890	2807890
2250	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/021728		WO2013/112334
2251	TECHNIQUES FOR UPLINK COVERAGE ANALYSIS	[redacted]	[redacted]	EPT	MTR-Closed	SK	137416319	2807890	2807890
2252	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	AT	137415626	2807895	2807895
2253	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	137415626	6.02013E+12	2807895
2254	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EE	137415626	2807895	2807895
2255	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	137415626	2807895	2807895
2256	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	137415626	2807895	2807895
2257	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	137415626	2807895	2807895
2258	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	137415626	2807895	2807895
2259	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GR	137415626	2807895	2807895
2260	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	HU	137415626	2807895	2807895
2261	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	137415626	2807895	2807895
2262	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022413		WO2013/112407
2263	AUTOMATIC UPLINK-DOWNLINK RATIO RECONFIGURATION SETTING IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SK	137415626	2807895	2807895
2264	TIME-VARIANT ANTENNA ENABLED BY SWITCH CAPACITOR ARRAY ON SILICON	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/045956		WO2014/004131
2265	SOUNDING REFERENCE SIGNAL ENHANCEMENT TO SUPPORT UPLINK COORDINATED MULTIPOINT	[redacted]	[redacted]	EPT	MTR-Closed	EP	137411005		2807892
2266	SOUNDING REFERENCE SIGNAL ENHANCEMENT TO SUPPORT UPLINK COORDINATED MULTIPOINT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/023187		WO2013/112886
2267	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2268	IP MULTIMEDIA SUBSYSTEM AND METHOD FOR MBMS FILE REPAIR USING HTTP SERVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022571		WO2013/112479
2269	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	NP	APP-Closed	US	13/553880		US-2013-0194996-A1
2270	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	APP-Closed	AU	2013211927		2013211927
2271	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2272	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-189692		2017-022769
2273	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2274	TECHNIQUES FOR IMPROVED MULTICAST CONTENT DELIVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/023254		WO2013/112909
2275	PACKET STREAMING SERVICE CAPABILITY EXCHANGE FOR ENHANCED PERIPHERAL DEVICE SUPPORT	[redacted]	[redacted]	EPT	MTR-Closed	EP	137406880		2807811
2276	PACKET STREAMING SERVICE CAPABILITY EXCHANGE FOR ENHANCED PERIPHERAL DEVICE SUPPORT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022566		WO2013/112476
2277	IDENTIFIERS FOR MTC GROUP IN 3GPP SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/023288		WO2013/112928
2278	COORDINATED MULTIPOINT CONFIGURATION BASED ON CHANNEL STATE INFORMATION REFERENCE SIGNALS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137410825		2807758
2279	COORDINATED MULTIPOINT CONFIGURATION BASED ON CHANNEL STATE INFORMATION REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022790		WO2013/112618
2280	INTERFERENCE MANAGEMENT FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	137407052		2807889
2281	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2282	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2283	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2284	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2285	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2286	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2287	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2288	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2289	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2290	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2291	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2292	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2293	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2294	INTERFERENCE MANAGEMENT FOR DYNAMIC UPLINK AND DOWNLINK CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022858		WO2013/112665
2295	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128488206		2774277
2296	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-539928		2014-534771
2297	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/041389		WO2013/066418
2298	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCD	APP-Closed	AU	2012219695		2012219695
2299	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7021091		10-2014-0115333
2300	UPLINK COORDINATED MULTI-POINT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022935		WO2013/112711
2301	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7021910		10-2014-0114008
2302	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/024795		WO2013/119585
2303	HANDLING WAIT TIME IN A CONGESTED WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	APP-Closed	SE	1300090-6		1300090
2304	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2305	HANDLING DUAL PRIORITY APPLICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	APP-Closed	US	13/526307		US-2013-0203399-A1
2306	HANDLING DUAL PRIORITY APPLICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CIP	APP-Closed	US	13/623779		US-2013-0203870-A1
2307	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013217503	2013217503	2013217503
2308	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
2309	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2310	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	CNT	APP-Closed	US	13/971795		US-2013-0336218-A1
2311	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CA	2861483	2861483	2861483
2312	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	APP-Closed	CN	2.01316E+12		103259619
2313	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	137466686		2813039
2314	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	ES	[redacted]	2453444	2453444
2315	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	FI	20135108		20135108
2316	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	FR	1350995		2988934
2317	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPR	APP-Closed	HK	131127706		1185474
2318	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPR	MTR-Closed	HK	141127457		1199335
2319	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	IT	MI2013A000596	1416451	MI2013A000166
2320	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	NL	2010249	2010249	2010249
2321	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/024793		WO2013/119583
2322	HANDLING DUAL PRIORITY CONFIGURATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	SE	1300093-0	536199	1300093
2323	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2324	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CA	2861432	2861432	2861432
2325	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01388E+12		104094563
2326	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	137460572		2813038
2327	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7021929	10-1806484	10-2014-0116472

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2328	HANDLING USER PLANE CONGESTION IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/024646		WO2013/119506
2329	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128681392		2813007
2330	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-555541	5893768	2015-506691
2331	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7021686	10-1584642	10-2014-0115838
2332	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/041618		WO2013/119267
2333	SIGNALING FOR CONFIGURATION OF DOWNLINK COORDINATED MULTIPOINT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	US	13/997595		US-2014-0219115-A1
2334	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0138E+12		104488344
2335	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	DIV	APP-Closed	US	14/584425		US-2016-0198469-A1
2336	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137498621		2807891
2337	LTE ENHANCEMENTS FOR SMALL PACKET TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022580		WO2013/112482
2338	TIME AND FREQUENCY SYNCHRONIZATION FOR LTE-ADVANCED NEW CARRIER TYPE	[redacted]	[redacted]	EPT	MTR-Closed	EP	137411781		2807772
2339	TIME AND FREQUENCY SYNCHRONIZATION FOR LTE-ADVANCED NEW CARRIER TYPE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022272		WO2013/112384
2340	SYSTEMS AND METHODS TO PROVIDE COMPENSATED FEEDBACK PHASE INFORMATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/677458	9054442	US-2014-0133528-A1
2341	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2342	ANTENNA SYSTEM METHOD AND MOBILE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Closed	CN	201310341199X		103579778
2343	METHODS AND SYSTEMS TO MITIGATE IMPULSE INTERFERENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047348		WO2014/065894
2344	SYSTEMS AND METHODS FOR JOINTLY DETECTING CHANNEL INTERFERENCE ON A SYNCHRONIZED MOBILE COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	13/657883	8913679	US-2014-0112404-A1
2345	SYSTEME UND VERFAHREN ZUM GEMEINSAMEN DETEKTIEREN VON KANALSTORUNGEN IN EINEM SYNCHRONISIERTEN MOBILKOMMUNIKA TIONSNETZ	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12	1.02013E+11	1.02013E+11
2346	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2347	AUTOMATIC FREQUENCY CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/000886		WO2014/000122
2348	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2349	SYSTEMS AND METHODS FOR PROCESSING ENCODED DATA STREAMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	138007331		2856783
2350	SYSTEMS AND METHODS FOR PROCESSING ENCODED DATA STREAMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041585		WO2013/184328
2351	PLUG-AND-PLAY TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	APP-Closed	US	13/803749		US-2014-0065982-A1
2352	PLUG-AND-PLAY TIME-VARIANT ANTENNA MODULE FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/046535		WO2014/039135
2353	PASSIVE RADIO LINK CONTROL ENTITY WITH UNIFIED INTERFACE	[redacted]	[redacted]	EPT	MTR-Closed	EP	128848674		2856267
2354	PASSIVE RADIO LINK CONTROL ENTITY WITH UNIFIED INTERFACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2012/081272		WO2014/040236
2355	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	CNT	APP-Closed	US	14/642404		US-2015-0181525-A1
2356	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2357	COMMUNICATION STATE TRANSITIONING CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/044449		WO2013/006346
2358	NETWORK VETTING OF WIRELESS MOBILE DEVICE INITIATED DISCONNECT	[redacted]	[redacted]	CNT	APP-Closed	US	14/956925		US-2016-0088559-A1
2359	USER EQUIPMENT AND METHOD FOR APPLICATION AGNOSTIC DISCONTINUOUS RECEPTION (DRX) TRIGGERING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0128E+12		103643414
2360	USER EQUIPMENT AND METHOD FOR APPLICATION AGNOSTIC DISCONTINUOUS RECEPTION (DRX) TRIGGERING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/044360		WO2013/006339
2361	SUPPORT FOR ASYNCHRONOUS TIME DIVISION DUPLEXING IN ADJACENT CELLS OF A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/056007		WO2013/025419
2362	MEASUREMENTS FOR THE INTERWORKING OF WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	13/571278	9049608	US-2013-0201842-A1
2363	MEASUREMENTS FOR THE INTERWORKING OF WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128451036		2774409
2364	MEASUREMENTS FOR THE INTERWORKING OF WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063467		WO2013/067464
2365	SCHEDULING REQUESTS FOR WIRELESS COMMUNICATION DEVICES RUNNING BACKGROUND APPLICATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	128467123		2774444
2366	SCHEDULING REQUESTS FOR WIRELESS COMMUNICATION DEVICES RUNNING BACKGROUND APPLICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-540049	5786207	2014-533041
2367	SCHEDULING REQUESTS FOR WIRELESS COMMUNICATION DEVICES RUNNING BACKGROUND APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/062868		WO2013/067059
2368	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2369	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	128462762		2774285
2370	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-540087	5887640	2014-533044
2371	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7012164	10-1812781	10-2014-0088135
2372	TECHNIQUES AND CONFIGURATIONS FOR TRIGGERING A PLURALITY OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/063065		WO2013/067183
2373	MOBILE PROXY FOR CLOUD RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048359		WO2014/028130
2374	EXTENDED ACCESS BARRING (EAB) SIGNALING FOR A CORE NETWORK (CN) AND NODE	[redacted]	[redacted]	EPT	MTR-Closed	EP	137486068		2807761
2375	EXTENDED ACCESS BARRING (EAB) SIGNALING FOR A CORE NETWORK (CN) AND NODE	[redacted]	[redacted]	PCT	APP-Closed	JP	2014-553504		2015-507434
2376	EXTENDED ACCESS BARRING (EAB) SIGNALING FOR A CORE NETWORK (CN) AND NODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022423		WO2013/112430
2377	OPPORTUNISTIC DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2012/049067		WO2013/019638

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2378	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	AT	137408597	2807861	2807861
2379	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	BE	137408597	2807861	2807861
2380	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	CH	137408597	2807861	2807861
2381	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	DE	137408597	2807861	2807861
2382	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EE	137408597	2807861	2807861
2383	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	ES	137408597	2807861	2807861
2384	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	FI	137408597	2807861	2807861
2385	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	FR	137408597	2807861	2807861
2386	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GB	137408597	2807861	2807861
2387	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GR	137408597	2807861	2807861
2388	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	HU	137408597	2807861	2807861
2389	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	IE	137408597	2807861	2807861
2390	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-553549	5778358	2015-504296
2391	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	NL	137408597	2807861	2807861
2392	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/022544		WO2013/112716
2393	USER EQUIPMENT AND METHOD FOR ADAPTIVE SELECTION OF HANDOVER PARAMETERS IN WIRELESS-ACCESS NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	SK	137408597	2807861	2807861
2394	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013211872	2013211872	2013211872
2395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2396	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	CA	2863424		2863424
2397	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	137408571	2807844	2807844
2398	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-554888	5911605	2015-506648
2399	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/023305		WO2013/112943
2400	TECHNIQUES FOR IMPROVED ENERGY-SAVINGS MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014131732	2592888	2014131732
2401	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	APP-Closed	AU	2016201020		2016201020
2402	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	CNT	APP-Closed	US	14/979827		US-2016-0113059-A1
2403	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2862374		2862374
2404	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2405	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	APP-Closed	JP	2015-211731		2016-029842
2406	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2016-7028514		10-2016-0121618
2407	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2408	USER EQUIPMENT AND METHOD FOR DISCONTINUOUS RECEPTION (DRX) MODE IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/023985		WO2013/112733
2409	HARQ/ACK CODEBOOK SIZE DETERMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/026604		WO2013/138021
2410	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2411	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380018262	104205689
2412	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137615563		2826176
2413	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH) INTER-CELL INTERFERENCE COORDINATION (ICIC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/031633		WO2013/138648
2414	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380016524	104170295
2415	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	EP	137611497	2826174	2826174
2416	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	AT	137611497	2826174	2826174
2417	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	BE	137611497	2826174	2826174
2418	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	CH	137611497	2826174	2826174
2419	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	DE	137611497	2826174	2826174
2420	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	ES	137611497	2826174	2826174
2421	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	FR	137611497	2826174	2826174
2422	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	GB	137611497	2826174	2826174

	A	B	C	D	E	F	G	H	I
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2423	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	GR	137611497	2826174	2826174
2424	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	HU	137611497	2826174	2826174
2425	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	IE	137611497	2826174	2826174
2426	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	NL	137611497	2826174	2826174
2427	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	EPT	MTR-Closed	SE	137611497	2826174	2826174
2428	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH) WITH PHYSICAL RESOURCE BLOCK (PRB) BUNDLING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/031690		WO2013/138659
2429	IMPROVEMENTS IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	MTR-Closed	CN	201380014549X	ZL201380014549X	104205682
2430	IMPROVEMENTS IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137611075		2826173
2431	IMPROVEMENTS IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/031762		WO2013/138669
2432	DOWNLINK CONTROL INFORMATION (DCI) VALIDATION FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388014884	104170297
2433	DOWNLINK CONTROL INFORMATION (DCI) VALIDATION FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137612883		2826175
2434	DOWNLINK CONTROL INFORMATION (DCI) VALIDATION FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/031796		WO2013/138674
2435	SUPPORT FOR ASYNCHRONOUS ADAPTATION TO UPLINK AND DOWNLINK TRAFFIC DEMANDS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388014861 3	104170436
2436	SUPPORT FOR ASYNCHRONOUS ADAPTATION TO UPLINK AND DOWNLINK TRAFFIC DEMANDS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	137616732		2826278
2437	SUPPORT FOR ASYNCHRONOUS ADAPTATION TO UPLINK AND DOWNLINK TRAFFIC DEMANDS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/032323		WO2013/138758
2438	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2439	TECHNIQUES FOR FRACTIONAL WIRELESS BROADBAND USAGE	[redacted]	[redacted]	EPT	MTR-Closed	EP	138823611		2801734
2440	TECHNIQUES FOR FRACTIONAL WIRELESS BROADBAND USAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047439		WO2014/051774
2441	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	NP	APP-Closed	US	13/680675		US-2013-0242887-A1
2442	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCD	APP-Closed	AU	2016204107		2016204107
2443	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	BR	112014022871-0		112014022871-0
2444	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388018873 46	104396303
2445	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	137613535	6.02013E+12	2826291
2446	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	ETSI	MTR-Closed	EP	161972690		3145239
2447	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2448	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2449	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2450	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2451	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2452	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2453	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2454	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2455	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2456	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2457	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2458	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2459	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2460	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	137613535	2826291	2826291
2461	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	137613535	2826291	2826291
2462	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-500441	5905637	2015-516377
2463	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7025693	10-1686486	10-2014-0138677
2464	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	137613535	2826291	2826291
2465	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/026910		WO2013/138031

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2486	INTRA-QCI SCHEDULER AND METHOD FOR INTRA-QCI SCHEDULING IN A WIRELESS ACCESS NETWORK	[redacted]	[redacted]	PCD	MTR-Closed	HU	2016136202	2645303	
2487	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	AT	137603734	2826326	2826326
2488	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	DE	137603734	6.020136+12	2826326
2489	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EE	137603734	2826326	2826326
2490	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	ES	137603734	2826326	2826326
2491	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	FR	137603734	2826326	2826326
2492	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	GB	137603734	2826326	2826326
2493	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	GR	137603734	2826326	2826326
2494	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	HU	137603734	2826326	2826326
2495	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-503446	5879642	2015-510378
2496	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	NL	137603734	2826326	2826326
2497	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/027350		WO2013/138048
2498	RANDOM ACCESS CHANNEL ENHANCEMENTS FOR LTE DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	SK	137603734	2826326	2826326
2499	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	APP-Closed	AU	2017201382		2017201382
2500	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2501	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CA	2866953		2866953
2502	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	137608139	2826275	2826275
2503	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	ES	[redacted]		2439613
2504	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-500516		2015-510375
2505	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/030511		WO2013/138332
2506	METHOD AND APPARATUS FOR COORDINATION OF SELF-OPTIMIZATION FUNCTIONS IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	SE	1350308-1		1350308
2507	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	NP	MTR-Closed	US	13/620168	8958379	US-2013-0242890-A1
2508	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388001465483	104170296
2509	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137606901	2826171	2826171
2510	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	AT	137606901	2826171	2826171
2511	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	BE	137606901	2826171	2826171
2512	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	CH	137606901	2826171	2826171
2513	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	DE	137606901	6.020136+12	2826171
2514	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	EE	137606901	2826171	2826171
2515	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	FR	137606901	2826171	2826171
2516	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	GB	137606901	2826171	2826171
2517	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	GR	137606901	2826171	2826171
2518	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	HU	137606901	2826171	2826171
2519	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	IE	137606901	2826171	2826171
2520	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	NL	137606901	2826171	2826171
2521	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	EPT	MTR-Closed	SK	137606901	2826171	2826171
2522	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE MAPPING USING AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (ePDCCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/032453		WO2013/138773
2523	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388001455589	104170280
2524	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137613634	2826167	2826167
2525	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	AT	137613634	2826167	2826167
2526	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	BE	137613634	2826167	2826167
2527	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	CH	137613634	2826167	2826167
2528	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	DE	137613634	2826167	2826167
2529	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	ES	137613634	2826167	2826167
2530	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	FR	137613634	2826167	2826167
2531	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	GB	137613634	2826167	2826167
2532	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	GR	137613634	2826167	2826167

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2514	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	HU	137613634	2826167	2826167
2515	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	IE	137613634	2826167	2826167
2516	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	NL	137613634	2826167	2826167
2517	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	SK	137613634	2826167	2826167
2518	UPLINK CONTROL CHANNEL RESOURCE MAPPING FOR AN ENHANCED PDCCH IN LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/027332		WO2013/138047
2519	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	13/625977	8903741	US-2013-0242726-A1
2520	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380014545.1	104170279
2521	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	137608857	2826165	2826165
2522	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	137608857	2826165	2826165
2523	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	BE	137608857	2826165	2826165
2524	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	CH	137608857	2826165	2826165
2525	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	137608857	2826165	2826165
2526	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	137608857	2826165	2826165
2527	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	137608857	2826165	2826165
2528	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	137608857	2826165	2826165
2529	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	137608857	2826165	2826165
2530	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	137608857	2826165	2826165
2531	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	137608857	2826165	2826165
2532	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	IE	137608857	2826165	2826165
2533	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	137608857	2826165	2826165
2534	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	137608857	2826165	2826165
2535	USER EQUIPMENT AND METHOD FOR REDUCING DELAY IN A RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/027144		WO2013/138043
2536	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	MTR-Closed	HU	137613832	2826267	2826267
2537	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	MTR-Closed	SK	137613832	2826267	2826267
2538	MULTICAST BROADCAST MULTIMEDIA SERVICE-ASSISTED CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/026603		WO2013/138028
2539	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION TIME INTERVAL (TTI) BUNDLING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/032560		WO2013/138779
2540	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380013917.9	104170277
2541	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	EPT	MTR-Closed	EP	137610614		2826186
2542	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-561188	5886449	2015-513270
2543	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7024788	10-1588156	10-2014-0120368
2544	TECHNIQUES FOR TIMERS ASSOCIATED WITH POWERING RECEIVER CIRCUITRY AT A WIRELESS DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/032612		WO2013/138782
2545	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	EP	137602348	2826298	2826298
2546	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	AT	137602348	2826298	2826298
2547	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	BE	137602348	2826298	2826298
2548	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	CH	137602348	2826298	2826298
2549	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	DE	137602348	2826298	2826298
2550	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	EE	137602348	2826298	2826298
2551	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	FR	137602348	2826298	2826298
2552	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	GB	137602348	2826298	2826298
2553	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	GR	137602348	2826298	2826298
2554	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	HU	137602348	2826298	2826298
2555	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	IE	137602348	2826298	2826298
2556	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	NL	137602348	2826298	2826298
2557	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	EPT	MTR-Closed	SK	137602348	2826298	2826298
2558	RF CHAIN USAGE IN A DUAL NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/027921		WO2013/138065
2559	DISCOVERY AND OPERATION OF HYBRID WIRELESS WIDE AREA AND WIRELESS LOCAL AREA NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048020		WO2014/051790
2560	METHOD AND APPARATUS FOR POWER CONTROL IN FULL-DUPLEX WIRELESS SYSTEMS WITH SIMULTANEOUS TRANSMISSION RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047498		WO2014/046761
2561	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	NP	MTR-Closed	US	13/631015	9026051	US-2014-0094122-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2562	WIRELESS WIDE AREA NETWORK (WWAN) MANAGED DEVICE TO DEVICE COMMUNICATION USING NARROWBAND WI-FI IN A LICENSED BAND	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048021		WO2014/051791
2563	BASEBAND CANCELLATION OF PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	NP	MTR-Closed	US	13/591381	8955594	US-2014-0056337-A1
2564	BASEBAND CANCELLATION OF PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047505		WO2014/081225
2565	METHOD AND APPARATUS FOR SUPPORTING SHORT MESSAGESERVICE IN PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103428659
2566	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-501956		2015-511106
2567	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7026921		10-2014-0138218
2568	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2016-7023522		10-2016-0105983
2569	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035570		WO2013/154985
2570	ENHANCEMENTS TO WIRELESS NETWORKS TO SUPPORT SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	MTR-Closed	SE	1300255-5		1300255
2571	FRAME STRUCTURE DESIGN FOR NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201388017298D	104365037
2572	FRAME STRUCTURE DESIGN FOR NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137748586		2837106
2573	FRAME STRUCTURE DESIGN FOR NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035772		WO2013/155071
2574	SIGNALING THREE DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035839		WO2013/155110
2575	MEDIA SERVER APPARATUS AND USER EQUIPMENT FOR SIGNALING THREE-DIMENSIONAL VIDEO INFORMATION IN COMMUNICATION NETWORKS	[redacted]	[redacted]	DIV	APP-Closed	TW	106101014		201720149
2576	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	EPT	APP-Closed	EP	137751319		2837138
2577	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035832		WO2013/155104
2578	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	NP	APP-Closed	SE	1350442-8		1350442
2579	QUALITY OF EXPERIENCE REPORTING FOR COMBINED UNICAST-MULTICAST/BROADCAST STREAMING OF MEDIA CONTENT	[redacted]	[redacted]	DIV	MTR-Closed	SE	1351289-2		1351289
2580	SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN WIRELESS NETWORKS IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	NP	APP-Closed	US	13/631044		US-2013-0268604-A1
2581	SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN WIRELESS NETWORKS IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	EPT	MTR-Closed	EP	137758074		2837217
2582	SHORT MESSAGE SERVICE (SMS) COMMUNICATION IN WIRELESS NETWORKS IN THE PACKET SWITCHED DOMAIN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035752		WO2013/155057
2583	APPLICATION CONTINUITY WITH REROUTE AND RESET IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	13/592042	9160497	US-2014-0003358-A1
2584	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	138139084	2868143	2868143
2585	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	138139084	2868143	2868143
2586	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	138139084	2868143	2868143
2587	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	138139084	2868143	2868143
2588	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	138139084	2868143	2868143
2589	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	138139084	2868143	2868143
2590	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	138139084	2868143	2868143
2591	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	138139084	2868143	2868143
2592	APPLICATION CONTINUITY WITH REROUTE AND RESET IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047358		WO2014/008026
2593	APPLICATION CONTINUITY WITH REROUTE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	138139084	2868143	2868143
2594	SCHALTNETZTEIL UND EIN VERFAHREN ZUM BETREIBEN EINES SCHALTNETZTEILS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2595	SCHALTNETZTEIL UND VERFAHREN FÜR DESSEN BETRIEB	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2596	FUNKKOMMUNIKATIONSVORRICHTUNGEN UND VERFAHREN ZUM STEUERN EINER FUNKKOMMUNIKATIONSVORRICHTUNG	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2597	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2598	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2599	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
2600	CELL TRANSFER CONTROLLER AND METHOD FOR SELECTING A RADIO CELL	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
2601	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	NP	APP-Closed	US	13/750697		US-2014-0003339-A1
2602	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	EPT	APP-Closed	EP	138127972		2868051
2603	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	APP-Closed	IN	8411/CHENP/2014		8411/CHENP/2014
2604	MACHINE-TO-MACHINE (M2M) DEVICE AND METHODS FOR 3GPP AND ETSI M2M INTERWORKING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047823		WO2014/008065
2605	SERVERS COMMUNICATION DEVICES METHODS FOR CONTROLLING A SERVER AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	US	13/597397	8965424	US-2014-0066108-A1
2606	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	US	13/756635	9100877	US-2014-0213241-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2607	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Closed	CN	2.01811E+12		108650693
2608	COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02018E+12		1.02018E+11
2609	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380017097O	104205734
2610	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	AT	137811873	2842269	2842269
2611	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	BE	137811873	2842269	2842269
2612	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	CH	137811873	2842269	2842269
2613	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	DE	137811873	2842269	2842269
2614	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	ES	137811873	2842269	2842269
2615	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	GR	137811873	2842269	2842269
2616	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	HU	137811873	2842269	2842269
2617	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	IE	137811873	2842269	2842269
2618	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	SK	137811873	2842269	2842269
2619	QoE-AWARE RADIO ACCESS NETWORK ARCHITECTURE FOR HTTP-BASED VIDEO STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/037580		WO2013/163077
2620	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	13/631137	8953482	US-2013-0301435-A1
2621	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-511686	5917779	2015-520561
2622	METHODS AND APPARATUSES TO IMPROVE ON-TIME THROUGHPUT FOR INTEGRATED MULTI-RAT HETEROGENEOUS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040286		WO2013/169991
2623	AN APPARATUS AND METHOD TO ENABLE DEVICE-TO-DEVICE (D2D) DISCOVERY IN CELLULAR NETWORKS	[redacted]	[redacted]	EPT	APP-Closed	EP	137756524		2837109
2624	AN APPARATUS AND METHOD TO ENABLE DEVICE-TO-DEVICE (D2D) DISCOVERY IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035973		WO2013/155182
2625	EVOLVED NODE B USER EQUIPMENT AND METHOD FOR OPERATION OF NARROW BANDWIDTH USER EQUIPMENT IN WIDE BANDWIDTH BROADBAND NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380017296I	104321985
2626	EVOLVED NODE B USER EQUIPMENT AND METHOD FOR OPERATION OF NARROW BANDWIDTH USER EQUIPMENT IN WIDE BANDWIDTH BROADBAND NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137754933		2837108
2627	EVOLVED NODE B USER EQUIPMENT AND METHOD FOR OPERATION OF NARROW BANDWIDTH USER EQUIPMENT IN WIDE BANDWIDTH BROADBAND NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036321		WO2013/155382
2628	ADAPTIVE UL-DL TDD CONFIGURATIONS IN A HETEROGNEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036305		WO2013/155373
2629	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	NP	MTR-Closed	US	13/734371	9107103	US-2013-0272148-A1
2630	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013245792	2013245792	2013245792
2631	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2632	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CA	2867734		2867734
2633	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380016787A	104170281
2634	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	137753018		2837107
2635	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-503689	5885471	2015-515814
2636	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7026956	10-1596187	10-2014-0136470
2637	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036364		WO2013/155431
2638	SMALL DATA COMMUNICATIONS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014138945	2582078	2014138945
2639	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-175078		2017-011748
2640	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING REFERENCE SIGNAL RECEIVED QUALITY (RSRQ)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040143		WO2013/169904
2641	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2642	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) CONFIGURATION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040448		WO2013/170100
2643	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	137823092	2842242	2842242
2644	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380016778G	104221307
2645	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	137823092	6.02013E+12	2842242
2646	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	137823092	2842242	2842242
2647	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	137823092	2842242	2842242
2648	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	137823092	2842242	2842242
2649	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	137823092	2842242	2842242
2650	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	IT	137823092	2842242	2842242
2651	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	137823092	2842242	2842242

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2682	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	137823092	2842242	2842242
2683	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	137823092	2842242	2842242
2684	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/038283		WO2013/163472
2685	SIGNAL INTERFERENCE MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	137823092	2842242	2842242
2686	INTRACELL DEVICE-TO-DEVICE COMMUNICATION CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/061983		WO2016/109058
2687	SCHEDULING SYNCHRONIZATION SIGNALS IN A NEW CARRIER TYPE	[redacted]	[redacted]	NP	APP-Closed	US	13/751488		US-2013-0301491-A1
2688	SCHEDULING SYNCHRONIZATION SIGNALS IN A NEW CARRIER TYPE	[redacted]	[redacted]	EPT	MTR-Closed	EP	137876762		2847956
2689	SCHEDULING SYNCHRONIZATION SIGNALS IN A NEW CARRIER TYPE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040452		WO2013/170104
2690	A SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) TIMING INDICATION FOR AN UPLINK-DOWNLINK (UL-DL) RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040496		WO2013/170121
2691	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	CNT	APP-Closed	US	15/225483		US-2017-0013564-A1
2692	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	CA	2871087		2871087
2693	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2694	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2695	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2017-7034095		10-2017-0134769
2696	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2697	USER EQUIPMENT POWER SAVINGS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/039563		WO2013/169788
2698	COORDINATED DYNAMIC POINT SELECTION (DPS) WITH CELL RANGE EXPANSION IN A COORDINATED MULTIPOINT (CoMP) SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040509		WO2013/170127
2699	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) INTERFERENCE MANAGEMENT	[redacted]	[redacted]	NP	APP-Closed	US	13/890403		US-2013-0301423-A1
2700	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) INTERFERENCE MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	13788358		2847898
2701	METHOD SYSTEM AND APPARATUS OF TIME-DIVISION-DUPLEX (TDD) UPLINK-DOWNLINK (UL-DL) INTERFERENCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040606		WO2013/170188
2702	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	CNT	APP-Closed	US	14/525927		US-2015-0043515-A1
2703	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2704	RADIO COEXISTENCE IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040573		WO2013/170167
2705	PERFORMING A HANDOVER IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040644		WO2013/170209
2706	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2707	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2708	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2709	PACKET DATA NETWORK CONNECTIONS FOR MULTI PRIORITY WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040649		WO2013/170211
2710	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013259668	2013259668	2013259668
2711	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2712	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	CNT	APP-Closed	US	14/993818		US-2016-0127870-A1
2713	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	CA	2871099		2871099
2714	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01388E+12		104396288
2715	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040908		WO2013/169823
2716	DETERMINING PROXIMITY OF USER EQUIPMENT FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014141608	2598646	2014141608
2717	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2718	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2719	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2720	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	13776859		2837111
2721	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2722	MULTI-ACCESS SCHEME AND SIGNAL STRUCTURE FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036085		WO2013/155253
2723	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380017295.7	104272850
2724	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	EPT	MTR-Closed	EP	13775953		2837249
2725	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7027265	10-1588476	10-2014-0138235
2726	D2D CONNECTION RECOVERY SCHEMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036120		WO2013/155265
2727	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	NP	MTR-Closed	US	13/734380	9125091	US-2013-0272132-A1
2728	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01388E+12	ZL201380017188.4	104205915
2729	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	EP	137750196	2837228	2837228
2730	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	AT	137750196	2837228	2837228
2731	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	BE	137750196	2837228	2837228
2732	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	CH	137750196	2837228	2837228
2733	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	DE	137750196	2837228	2837228
2734	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	ES	137750196	2837228	2837228

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2705	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	ES	137750196	2837228	2837228
2706	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	FR	137750196	2837228	2837228
2707	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	GB	137750196	2837228	2837228
2708	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	GR	137750196	2837228	2837228
2709	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	HU	137750196	2837228	2837228
2710	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	IE	137750196	2837228	2837228
2711	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	NL	137750196	2837228	2837228
2712	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	EPT	MTR-Closed	SK	137750196	2837228	2837228
2713	SUPPORTED SELF-OPTIMIZING WIRELESS NETWORKS OPTIMIZED WITH RESPECT TO ENERGY MOBILITY AND CAPACITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036417		WO2013/155443
2714	EXCHANGING CONFIGURATION DATA	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01E+12	ZL201380016748.4	104205894
2715	EXCHANGING CONFIGURATION DATA	[redacted]	[redacted]	EPT	MTR-Closed	EP	137750709		2837218
2716	EXCHANGING CONFIGURATION DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035948		WO2013/155168
2717	DOWNLINK CONTROL INDICATION FOR A STAND-ALONE NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	NP	MTR-Closed	US	13/784459	9186718	US-2013-0301549-A1
2718	DOWNLINK CONTROL INDICATION FOR A STAND-ALONE NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040672		WO2013/170227
2719	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013248943	2013248943	2013248943
2720	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112014025289-0		
2721	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	CA	2868041	2868041	2868041
2722	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01E+12	ZL201380016741.2	104205671
2723	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	137761854		2837112
2724	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7027640	10-1584462	10-2014-0130319
2725	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/035939		WO2013/155198
2726	INTERFERENCE NOTIFICATION IN DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014138923	2578589	
2727	APPARATUS AND METHOD TO ESTABLISH A DEVICE-TO-DEVICE (D2D) CONNECTION IN A 3GPP-LTE NETWORK USING A DISTRIBUTED CHANNEL SCAN	[redacted]	[redacted]	NP	MTR-Closed	US	13/751644	8934437	US-2013-0301438-A1
2728	AN APPARATUS AND METHOD TO ESTABLISH A DEVICE-TO-DEVICE (D2D) CONNECTION IN A 3GPP-LTE NETWORK USING A DISTRIBUTED CHANNEL SCAN	[redacted]	[redacted]	EPT	MTR-Closed	EP	137883328		2847894
2729	AN APPARATUS AND METHOD TO ESTABLISH A DEVICE-TO-DEVICE (D2D) CONNECTION IN A 3GPP-LTE NETWORK USING A DISTRIBUTED CHANNEL SCAN	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-511593		2015-521423
2730	AN APPARATUS AND METHOD TO ESTABLISH A DEVICE-TO-DEVICE (D2D) CONNECTION IN A 3GPP-LTE NETWORK USING A DISTRIBUTED CHANNEL SCAN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/038828		WO2013/169699
2731	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	BE	2013/0373	1022575	
2732	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGNEOUS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	137974051		2856666
2733	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	ES	P201330781	2455121	2455121
2734	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	FI	20135571	126925	20135571
2735	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	FR	1354915	2991529	2991529
2736	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	IT	MI2013A000867	1417780	MI2013A000867
2737	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGNEOUS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7031478	10-1618187	10-2015-0000503
2738	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	NL	2011876	2010876	2010876
2739	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGNEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041145		WO2013/180955
2740	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	SE	1350631-6	537825	1350631
2741	ADAPTIVE UL-DL CONFIGURATIONS IN A TDD HETEROGENEOUS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	102116697	I513234	201409971
2742	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2743	DUAL-BAND FOLDED META-INSPIRED ANTENNA WITH USER EQUIPMENT EMBEDDED WIDEBAND CHARACTERISTICS	[redacted]	[redacted]	EPT	MTR-Closed	EP	138598784		2926410
2744	DUAL-BAND FOLDED META-INSPIRED ANTENNA WITH USER EQUIPMENT EMBEDDED WIDEBAND CHARACTERISTICS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044080		WO2014/088635
2745	TRANSMISSION POWER CONTROL SCHEMES FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/011598		WO2014/113424
2746	SENDING INFORMATION AT A BAND EDGE WITHIN AN ORTHOGONAL FREQUENCY-DIVISION MULTIPLEXING (OFDM) SYMBOL	[redacted]	[redacted]	NP	MTR-Closed	US	13/738928	8675655	US-2014-0192848-A1
2747	SENDING INFORMATION AT A BAND EDGE WITHIN AN ORTHOGONAL FREQUENCY-DIVISION MULTIPLEXING (OFDM) SYMBOL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/010126		WO2014/109948
2748	HANDLING SIGNAL QUALITY MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	128877685		2915381
2749	HANDLING SIGNAL QUALITY MEASUREMENTS IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/RU2012/000858		WO2014/070035
2750	PUCCH RESOURCE ALLOCATION WITH ENHANCED PDCCH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040614		WO2013/180935
2751	METHOD SYSTEM AND APPARATUS OF WIRELESS LOCAL AREA NETWORK (WLAN) COMMUNICATION IN CONJUNCTION WITH CELLULAR COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041195		WO2013/180956
2752	WIRELESS MULTIMEDIA QUALITY OF EXPERIENCE REPORTING	[redacted]	[redacted]	NP	APP-Closed	US	13/674617		US-2013-0326551-A1
2753	WIRELESS MULTIMEDIA QUALITY OF EXPERIENCE REPORTING	[redacted]	[redacted]	EPT	MTR-Closed	EP	137971727		2856798
2754	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2762	[redacted]								
2763									
2764									
2765									
2766									
2767	WIRELESS MULTIMEDIA QUALITY OF EXPERIENCE REPORTING			PCT	APP-Closed	WO	PCT/US2013/040374		WO2013/180924
2768	ECCE INDEXING FOR EPDCCH SEARCH SPACE DESIGN			PCD	APP-Closed	JP	2018-008869		2018-093502
2769	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	APP-Closed	KR	10-2014-7033922		10-2015-0010974
2770	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			DIV	APP-Closed	KR	10-2018-7005622		10-2018-0026787
2771	[redacted]								
2772	ENHANCED CHANNEL CONTROL ELEMENT INDEXING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SEARCH SPACE			PCT	APP-Closed	WO	PCT/US2013/048548		WO2014/008198
2773	WAKE-UP FUNCTIONALITY FOR AN LTE ENODEB			NP	APP-Closed	US	13/672548		US-2014-0003312-A1
2774	WAKE-UP FUNCTIONALITY FOR AN LTE ENODEB			EPT	MTR-Closed	EP	138128384		2868145
2775	WAKE-UP FUNCTIONALITY FOR AN LTE ENODEB			PCT	APP-Closed	WO	PCT/US2013/044610		WO2014/007938
2776	DYNAMIC INTERFERENCE AVOIDANCE IN INTEGRATED MULTI-RADIO ACCESS TECHNOLOGIES (RAT) HETEROGENEOUS NETWORKS			PCT	APP-Closed	WO	PCT/US2014/013739		WO2014/120863
2777	SUPPORTING MEASURMENTS AND FEEDBACK FOR 3D MIMO WITH DATA TRANSMISSION OPTIMIZATION			PCT	APP-Closed	WO	PCT/US2013/048401		WO2014/008072
2778	DEVICES AND METHODS FOR RADIO COMMUNICATION NETWORK GUIDED TRAFFIC OFFLOAD			PCT	APP-Closed	WO	PCT/US2013/047576		WO2014/008039
2779	SOUNDING REFERENCE SIGNAL (SRS) MECHANISM FOR INTRACELL DEVICE-TO-DEVICE (D2D) COMMUNICATION			NP	MTR-Closed	US	13/734349	9154267	US-2014-0003362-A1
2780	SOUNDING REFERENCE SIGNAL (SRS) MECHANISM FOR INTRACELL DEVICE-TO-DEVICE (D2D) COMMUNICATION			PCT	APP-Closed	WO	PCT/US2013/048018		WO2014/008073
2781	[redacted]								
2782	SIMULTANEOUS TRANSMIT AND RECEIVE			PCT	APP-Closed	WO	PCT/US2013/048342		WO2014/008184
2783	TECHNIQUES FOR ROAMING BETWEEN HETEROGENEOUS WIRELESS NETWORKS			CNT	APP-Closed	US	15/812824		US-2017-0086470-A1
2784	TECHNIQUES FOR ROAMING BETWEEN HETEROGENEOUS WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2013/047461		WO2014/084910
2785	SIMULTANEOUS TRANSMIT AND RECEIVE			EPT	APP-Closed	EP	138125182		2868008
2786	SIMULTANEOUS TRANSMIT AND RECEIVE			PCT	APP-Closed	WO	PCT/US2013/048345		WO2014/008186
2787	SENSOR HIERARCHY			NP	APP-Closed	US	13/712077		US-2014-0159856-A1
2788	SENSOR HIERARCHY			CNT	APP-Closed	US	15/077275		US-2016-0203398-A1
2789	SENSOR HIERARCHY			PCT	APP-Closed	CN	2.01386E+12		105026896
2790	SENSOR HIERARCHY			EPT	APP-Closed	EP	138622501		2932203
2791	SENSOR HIERARCHY			ETD	APP-Closed	EP	161701222		3144764
2792	SENSOR HIERARCHY			PCT	APP-Closed	WO	PCT/US2013/043515		WO2014/092769
2793	[redacted]								
2794	APPARATUS SYSTEM AND METHOD OF SIMULTANEOUS CONNECTIVITY TO LOCATION ORIGIN TRANSCEIVERS			PCT	APP-Closed	WO	PCT/US2013/048078		WO2014/092794
2795	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT			NP	APP-Closed	US	13/715340		US-2014-0171116-A1
2796	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT			CNT	APP-Closed	US	15/059213		US-2016-0295359-A1
2797	LOCATION-AWARE MOBILE APPLICATION MANAGEMENT			PCT	APP-Closed	WO	PCT/US2013/046246		WO2014/092776
2798	COMMUNICATION DEVICE MOBILE TERMINAL METHOD FOR REQUESTING INFORMATION AND METHOD FOR PROVIDING INFORMATION			EPT	MTR-Closed	EP	137864377		2912874
2799	COMMUNICATION DEVICE MOBILE TERMINAL METHOD FOR REQUESTING INFORMATION AND METHOD FOR PROVIDING INFORMATION			PCT	APP-Closed	WO	PCT/EP2013/071311		WO2014/063935
2800	FREQUENCY-STABILIZED TRANSCEIVER CONFIGURATION			CNT	APP-Closed	US	09/840551	6847812	US-2001-0055957-A1
2801	[redacted]								
2802	Frequenzstabilisierte Sende-/Empfangsschaltungsanordnung			PCT	APP-Closed	WO	PCT/DE1999/003274		WO2000/025435
2803	Frequenzstabilisierte Sende-/Empfangsschaltungsanordnung			EPT	APP-Closed	EP	999592025		1127405
2804	[redacted]								
2805									
2806									
2807									
2808									
2809									
2810									
2811	Frequenzstabilisierte Sende-/Empfangsschaltungsanordnung			PCT	MTR-Closed	CN	99812473	ZL998126737	1324512
2812	[redacted]								
2813									
2814	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH			PCT	APP-Closed	WO	PCT/US1999/015621		WO2000/003501
2815	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH IN THE CDMA SYSTEM			EPT	PAT-Closed	DE	999338627	69927818	1097527
2816	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH IN THE CDMA SYSTEM			EPT	PAT-Closed	GB	999338627	1097527	1097527
2817	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH IN THE CDMA SYSTEM			PCT	PAT-Closed	CN	99809952X	ZL99809952X	
2818	METHOD FOR PERFORMING INTER-FREQUENCY SEARCH IN THE CDMA SYSTEM			PCT	APP-Closed	JP	2000-559658		JP 2000-559658
2819	METHOD AND APPARATUS FOR PERFORMING AN INTERFREQUENCY SEARCH			CIP	MTR-Closed	US	09/346784	6885173	
2820	Forward Link Inter-Generation Soft Handoff Between 2G and 3G CDMA Systems			NP	PAT-Closed	US	09/314987	6567666	US-2002-0037726-A1
2821	Forward Link Inter-Generation Soft Handoff Between 2G and 3G CDMA Systems			CNT	PAT-Closed	US	10/402041	6804519	
2822	Forward Link Inter-Generation Soft Handoff Between 2G and 3G CDMA Systems			NP	MTR-Closed	CN	991258827	ZL991258827	1260688
2823	Sanftes Weiterreichen zwischen CDMA Systemen der zweiten und dritten Generation			EPA	MTR-Closed	EP	991236241	1006746	1006746
2824	Sanftes Weiterreichen zwischen CDMA Systemen der zweiten und dritten Generation			EPA	MTR-Closed	DE	991236241	69928672	1006746

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2825	FORWARD LINK INTER-GENERATION SOFT HANDOFF BETWEEN 2G AND 3G CDMA SYSTEMS	[redacted]	[redacted]	EPA	MTR-Closed	DK	991236241	1006746	1006746
2826	FORWARD LINK INTER-GENERATION SOFT HANDOFF BETWEEN 2G AND 3G CDMA SYSTEMS	[redacted]	[redacted]	EPA	MTR-Closed	FI	991236241	1006746	1006746
2827	Sanftes Weiterreichen zwischen CDMA Systemen der zweiten und dritten Generation	[redacted]	[redacted]	EPA	MTR-Closed	FR	991236241	1006746	1006746
2828	Sanftes Weiterreichen zwischen CDMA Systemen der zweiten und dritten Generation	[redacted]	[redacted]	EPA	MTR-Closed	GB	991236241	1006746	1006746
2829	FORWARD LINK INTER-GENERATION SOFT HANDOFF BETWEEN 2G AND 3G CDMA SYSTEMS	[redacted]	[redacted]	EPA	MTR-Closed	IT	991236241	1006746	1006746
2830	FORWARD LINK INTER-GENERATION SOFT HANDOFF BETWEEN 2G AND 3G CDMA SYSTEMS	[redacted]	[redacted]	EPA	MTR-Closed	SE	991236241	1006746	1006746
2831	Forward Link Inter-Generation Soft Handoff Between 2G and 3G CDMA Systems	[redacted]	[redacted]	NP	MTR-Closed	JP	2011-343458	4800895	2003-201369
2832	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2833	Acquisition Method and Apparatus for Carrying out the Method	[redacted]	[redacted]	CNT	MTR-Closed	US	09/767379	7133438	US-2001-0030944-A1
2834	Acquisition Method and Apparatus for Carrying out the Method	[redacted]	[redacted]	CNT	PAT-Closed	US	11/557373	7424049	US-2007-0064777-A1
2835	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	NP	APP-Closed	DE	19832508		19832830
2836	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE1998/001962		WO2000/005821
2837	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	PAT-Closed	DE	999427701	599041811	1103104
2838	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	DK	999427701	1103104	1103104
2839	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	FI	999427701	1103104	1103104
2840	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	FR	999427701	1103104	1103104
2841	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	GB	999427701	1103104	1103104
2842	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	IT	999427701	1103104	1103104
2843	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	EPT	MTR-Closed	SE	999427701	1103104	1103104
2844	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	PCT	MTR-Closed	CN	99808817X	ZL99808817X	1309844
2845	Akquisitionsverfahren und Vorrichtung zur Durchfuehrung des Verfahrens	[redacted]	[redacted]	PCT	MTR-Closed	JP	2012-561711	3450299	2002-521938
2846	AKQUISITIONSVERFAHREN UND VORRICHTUNG ZUR DURCHFUEHRUNG DES VERFAHRENS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7000861	10-0392137	10-2001-0070999
2847	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2848	Correlation error correction procedure for signal demodulator involves computing difference between primary and secondary phase values of spreading signals to compute phase value of local signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	198427123	19842712	
2849	VERFAHREN UND ANORDNUNG ZUR MINIMIERUNG DES AUTOKORRELATIONSFEHLERS BEI DER DEMODULATION EINES SPREIZSPEKTRUM-SIGNALS UNTER MEHRWEGEAUSBREITUNG	[redacted]	[redacted]	NP	MTR-Closed	JP	2011-262466	3380499	2003-101480
2850	Offset voltage compensation method for radio reception circuits increasing charging current for capacitor when discharged and reducing increase when typical charging state is reached for compensating offset voltage Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	198043779	19804377	
2851	Verfahren und Schaltung zur Kompensationssteuerung von Offsetspannungen einer in einem Schaltungsbaustein integrierten Funkempfangsschaltung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/000294		WO2000/046918
2852	Verfahren und Schaltung zur Kompensationssteuerung von Offsetspannungen einer in einem Schaltungsbaustein integrierten Funkempfangsschaltung	[redacted]	[redacted]	EPT	MTR-Closed	EP	9085772	1066679	1066679
2853	Verfahren und Schaltung zur Kompensationssteuerung von Offsetspannungen einer in einem Schaltungsbaustein integrierten Funkempfangsschaltung	[redacted]	[redacted]	EPT	MTR-Closed	DE	9085772	500150729	1066679
2854	Verfahren und Schaltung zur Kompensationssteuerung von Offsetspannungen einer in einem Schaltungsbaustein integrierten Funkempfangsschaltung	[redacted]	[redacted]	EPT	MTR-Closed	FR	9085772	1066679	1066679
2855	VERFAHREN UND SCHALTUNG ZUR KOMPENSATIONSSTEUERUNG VON OFFSETSPANNUNGEN EINER IN EINEM SCHALTUNGSBAUSTEIN INTEGRIERTEN FUNKEMPFANGSSCHALTUNG	[redacted]	[redacted]	EPT	MTR-Closed	GB	9085772	1066679	1066679
2856	Differenzverstaerker	[redacted]	[redacted]	NP	APP-Closed	DE	19930719		
2857	Differenzverstaerker	[redacted]	[redacted]	EPA	MTR-Closed	FR	1139385	1067679	1067679
2858	Differenzverstärker	[redacted]	[redacted]	EPA	MTR-Closed	GB	1139385	1067679	1067679
2859	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2860	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/002259		WO2001/008670
2861	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	DK	9543174	1195016	1195016
2862	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	FI	9543174	1195016	1195016
2863	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	FR	9543174	1195016	1195016
2864	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	GB	9543174	1195016	1195016
2865	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	IT	9543174	1195016	1195016
2866	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	EPT	MTR-Closed	SE	9543174	1195016	1195016
2867	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	PCT	MTR-Closed	CN	8103186	ZL008103186	1360761
2868	Verfahren zur Schaetzung der Kanalimpulsantwort eines Mobilfunkkanals	[redacted]	[redacted]	PCT	MTR-Closed	JP	2013-511084	3487842	2003-505917
2869	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2870	Modulator-Demodulator	[redacted]	[redacted]	NP	APP-Closed	DE	19939032		19939093
2871	Modulator-Demodulator	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/001790		WO2001/013528
2872	Modulator-Demodulator	[redacted]	[redacted]	EPT	MTR-Closed	EP	9622259	1203454	1203454
2873	Modulator-Demodulator	[redacted]	[redacted]	EPT	MTR-Closed	DE	9622259	50041822	1203454
2874	Modulator-Demodulator	[redacted]	[redacted]	EPT	MTR-Closed	FR	9622259	1203454	1203454
2875	Modulator-Demodulator	[redacted]	[redacted]	EPT	MTR-Closed	GB	9622259	1203454	1203454
2876	Modulator-Demodulator	[redacted]	[redacted]	PCT	MTR-Closed	JP	2013-517712	3565438	2003-507922
2877	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2878	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	NP	APP-Closed	DE	199467218		19946721

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2879	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/003348		WO2001/024382
2880	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	EPT	MTR-Closed	EP	9692278	1219034	1219034
2881	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	EPT	MTR-Closed	DE	9692278	500015848	1219034
2882	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2883	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2884	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	EPT	APP-Closed	FR	9692278	1219034	1219034
2885	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	EPT	APP-Closed	GB	9692278	1219034	1219034
2886	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	EPT	APP-Closed	IT	9692278	1219034	1219034
2887	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2888	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	PCT	MTR-Closed	CN	00813867X	ZL00813867X	1377528
2889	Verfahren und Vorrichtung zur Kanalkodierung in einem Nachrichtenuebertragungssystem	[redacted]	[redacted]	PCT	APP-Closed	JP	2013-527451	3549516	2003-510945
2890	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2891	Digital filter combination eg for digital video broadcasting reception user decimation filter and matching filter with their transmission bands selected to provide smooth amplitude response curve Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	199488983	19948898	
2892	Digitale Filterkombination	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2000/010015		WO2001/028091
2893	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2894	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2895	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2896	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2897	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2898	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2899	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2900	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2901	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2902	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2903	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2904	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2905	Power Control During Inter-Generation Soft Hand-offs	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/011535		WO2000/076085
2906	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2907	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2908	POWER CONTROL DURING INTER-GENERATION SOFT HANDOFFS	[redacted]	[redacted]	EPT	MTR-Closed	SE	9302175	1188254	1188254
2909	POWER CONTROL DURING INTER-GENERATION SOFT HANDOFFS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7015832	10-0435613	
2910	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2911	CIRCUIT CONFIGURATION FOR FORMING A MOS CAPACITOR WITH A LOWER VOLTAGE DEPENDENCE AND A LOWER AREA REQUIREMENT	[redacted]	[redacted]	CNT	MTR-Closed	US	10/113421	6700149	US-2002-0155648-A1
2912	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
2913	Schaltungsanordnung zur Bildung eines MOS-Kondensators mit geringer Spannungsabhaengigkeit	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/003479		WO2001/024277
2914	Schaltungsanordnung zur Bildung eines MOS-Kondensators mit geringer Spannungsabhaengigkeit	[redacted]	[redacted]	EPT	APP-Closed	EP	9789678		1218948
2915	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2916	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2917	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2918	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2919	Modulationsanordnung	[redacted]	[redacted]	NP	APP-Closed	DE	199560730	19956073	19956073
2920	Modulationsanordnung	[redacted]	[redacted]	EPA	MTR-Closed	EP	1255074	1102392	1102392
2921	Modulationsanordnung	[redacted]	[redacted]	EPA	MTR-Closed	DE	1255074	500057818	1102392
2922	Modulationsanordnung	[redacted]	[redacted]	EPA	MTR-Closed	FR	1255074	1102392	1102392
2923	Modulationsanordnung	[redacted]	[redacted]	EPA	MTR-Closed	GB	1255074	1102392	1102392
2924	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	NP	APP-Closed	DE	199611211	19961121	19961121
2925	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2000/004493		WO2001/045253
2926	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	MTR-Closed	EP	9905431	1238458	1238458
2927	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	MTR-Closed	DE	9905431	500023093	1238458
2928	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	APP-Closed	DK	9905431	1238458	1238458
2929	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	APP-Closed	FI	9905431	1238458	1238458
2930	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	MTR-Closed	FR	9905431	1238458	1238458
2931	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	APP-Closed	GB	9905431	1238458	1238458
2932	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	APP-Closed	IT	9905431	1238458	1238458
2933	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	EPT	APP-Closed	SE	9905431	1238458	1238458
2934	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	PCT	MTR-Closed	CN	8172420	ZL008172420	1411628
2935	Schaltungsanordnung und Verfahren zur Offsetkompensation eines Signals	[redacted]	[redacted]	PCT	MTR-Closed	JP	2013-545891	3602503	2003-517294
2936	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2937	Schaltungsanordnung zur Regelung nichtlinearer Strecken	[redacted]	[redacted]	NP	APP-Closed	DE	100128637	10012863	10012863
2938	Schaltungsanordnung zur Regelung nichtlinearer Strecken	[redacted]	[redacted]	EPA	MTR-Closed	EP	11841662	1134869	1134869
2939	Schaltungsanordnung zur Regelung nichtlinearer Strecken	[redacted]	[redacted]	EPA	MTR-Closed	DE	11841662	501158383	1134869

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2940	Schaltungsanordnung zur Regelung nichtlinearer Strecken	[redacted]	[redacted]	EPA	MTR-Closed	FR	11041662	1134869	1134869
2941	Schaltungsanordnung zur Regelung nichtlinearer Strecken	[redacted]	[redacted]	EPA	MTR-Closed	GB	11041662	1134869	1134869
2942	Verstaerkerschaltung mit Offset-Kompensation insbesondere fuer digitale Modulationseinrichtungen	[redacted]	[redacted]	NP	APP-Closed	DE	100231144		10023114
2943	Verstaerkerschaltung mit Offset-Kompensation insbesondere fuer digitale Modulationseinrichtungen	[redacted]	[redacted]	EPA	MTR-Closed	EP	11090545	1154565	1154565
2944	Verstaerkerschaltung mit Offset-Kompensation insbesondere fuer digitale Modulationseinrichtungen	[redacted]	[redacted]	EPA	MTR-Closed	DE	11090545	501152237	1154565
2945	Verstaerkerschaltung mit Offset-Kompensation insbesondere fuer digitale Modulationseinrichtungen	[redacted]	[redacted]	EPA	MTR-Closed	FR	11090545	1154565	1154565
2946	Verstaerkerschaltung mit Offset-Kompensation insbesondere fuer digitale Modulationseinrichtungen	[redacted]	[redacted]	EPA	MTR-Closed	GB	11090545	1154565	1154565
2947	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	NP	APP-Closed	DE	10034742		10034714
2948	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2001/002485		WO2002/007373
2949	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	19538479	1302014	1302014
2950	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2951	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	19538479	501073027	1302014
2952	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2953	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2954	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	19538479	1302014	1302014
2955	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	19538479	1302014	1302014
2956	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2957	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2958	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	18129218	ZL018129218	1443408
2959	VERFAHREN UND EINRICHTUNG ZUR DIVERSITAETSUEBER- TRAGUNG CODIERTER INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2002-513149		2004-504764
2960	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2961	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	NP	APP-Closed	DE	10060159		10060159
2962	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	PCD	APP-Closed	JP	2007-008553		2007-143185
2963	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2001/004539		WO2002/047273
2964	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	EPT	MTR-Closed	FR	19955640	1350325	1350325
2965	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	EPT	MTR-Closed	GB	19955640	1350325	1350325
2966	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	EPT	MTR-Closed	IT	19955640	1350325	1350325
2967	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	PCT	APP-Closed	JP	2002-548878		2004-515958
2968	Analog-Digital-Wandler und Verfahren zur Wandlung eines Analogsignals in ein Digitalsignal	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2003-7007411	10-0522379	10-2003-0048183
2969	Bestimmung eines differentiellen Offsets in einem Funkgerät	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2001/002688		WO2002/011353
2970	Bestimmung eines differentiellen Offsets in einem Funkgerät	[redacted]	[redacted]	EPT	APP-Closed	EP	19583352		1305906
2971	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2972	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2973	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2974	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2975	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2976	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2977	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2978	Bestimmung eines differentiellen Offsets in einem Funkgerät	[redacted]	[redacted]	PCT	MTR-Closed	CN	18133452	ZL018133452	1444810
2979	Bestimmung eines differentiellen Offsets in einem Funkgerät	[redacted]	[redacted]	PCT	APP-Closed	JP	2002-515781		2004-505546
2980	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2981	Analog-to-digital converter has transistors of one differential amplifier of input stage complementary to transistors of other amplifier Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	10042584	10042584	10042584
2982	Fernsprechgerät zum Anschluß an ein Fernsprechnetz	[redacted]	[redacted]	NP	APP-Closed	DE	10050041		10050041
2983	Fernsprechgerät zum Anschluß an ein Fernsprechnetz	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2001/003800		WO2002/032086
2984	Fernsprechgerät zum Anschluß an ein Fernsprechnetz	[redacted]	[redacted]	EPT	APP-Closed	EP	19868199		1325606
2985	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2986	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2987	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2988	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2989	TELEPHONE FOR CONNECTION TO A PUBLIC TELEPHONE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	18171494	ZL018171494	1470123
2990	Fernsprechgerät zum Anschluß an ein Fernsprechnetz	[redacted]	[redacted]	PCT	APP-Closed	JP	2002-535358		JP 2004-559658
2991	D/A converter for binary coded data word into analog output signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	10052944	10052944	10052944

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
2992	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	NP	APP-Closed	DE	10108636		10108636
2993	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/000727		WO2002/067428
2994	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	EPT	MTR-Closed	EP	27166313	1362413	1362413
2995	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2996	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	EPT	MTR-Closed	DE	27166313	50200830?	1362413
2997	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2998	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
2999	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	EPT	MTR-Closed	FR	27166313	1362413	1362413
3000	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	EPT	MTR-Closed	GB	27166313	1362413	1362413
3001	Abgleichverfahren und Abgleicheinrichtung für PLL-Schaltung zur Zwei-Punkt-Modulation	[redacted]	[redacted]	EPT	MTR-Closed	IT	27166313	1362413	1362413
3002	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3003	Compensantion Method and Compensating Device for a PLL Circuit for Two-Point Modulation	[redacted]	[redacted]	PCT	MTR-Closed	CN	28054385	ZL028054385	1524336
3004	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3005	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	NP	APP-Closed	DE	10044449		10044449
3006	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2001/003425		WO2002/021680
3007	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	EP	19670694	1316143	1316143
3008	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	DE	19670694	50105213?	1316143
3009	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	FR	19670694	1316143	1316143
3010	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	GB	19670694	1316143	1316143
3011	Empfängerschaltung insbesondere für den Mobilfunk	[redacted]	[redacted]	PCT	MTR-Closed	JP	2002-525986	3996052	2004-508759
3012	Method for transmitting/receiving in a digital telecommunications system uses a phase rotation factor impressed on a training sequence to identify a type of modulation Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	10124782	10124782	10124782
3013	Übermittlung und Erkennung der Modulationsart in digitalen Kommunikationssystemen mittels eines der Trainingssequenz aufgeprägten Phasenrotationsfaktors	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/001623		WO2002/096051
3014	Übermittlung und Erkennung der Modulationsart in digitalen Kommunikationssystemen mittels eines der Trainingssequenz aufgeprägten Phasenrotationsfaktors	[redacted]	[redacted]	EPT	APP-Closed	EP	27716240		1351093
3015	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3016	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3017	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3018	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3019	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3020	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3021	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3022	Transmission and Identification of the Modulation Type in Digital communication Systems by Means of A Phase Rotation Factor Which is applied to the Training Sequence	[redacted]	[redacted]	PCT	MTR-Closed	CN	28104536	ZL028104536	1526212
3023	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3024	Circuit for providing exponential pre-distortion for adjustable amplifier has differential amplifier transistor control inputs connected to diodes equal effective transistor/diode area ratios Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	10106388	10106388	10106388
3025	Schaltung zur Bereitstellung einer exponentiellen Vorverzer-rung für einen einstellbaren Verstärker	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/000328		WO2002/071597
3026	Schaltung zur Bereitstellung einer exponentiellen Vorverzer-rung für einen einstellbaren Verstärker	[redacted]	[redacted]	EPT	APP-Closed	EP	27081884		1360758
3027	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3028	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3029	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3030	Schaltung zur Bereitstellung einer exponentiellen Vorverzerrung für einen einstellbaren Verstärker	[redacted]	[redacted]	PCT	MTR-Closed	JP	2002-570394	3850799	2004-519176
3031	Method for compensating for a phase error in a reception and/or transmission system having an I/Q interface	[redacted]	[redacted]	CNT	APP-Closed	US	10/758795		US-2004-0172438-A1
3032	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	NP	APP-Closed	DE	101360711		10136071
3033	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/002356		WO2003/013191
3034	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	EPT	MTR-Closed	DK	27508118	1410496	1410496
3035	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	EPT	MTR-Closed	FI	27508118	1410496	1410496
3036	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	EPT	MTR-Closed	IT	27508118	1410496	1410496
3037	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	EPT	MTR-Closed	SE	27508118	1410496	1410496
3038	Verfahren und Vorrichtung zur Kompensation eines Phasenfehlers eines Empfangs- und/oder Sendesystems mit I/Q-Schnittstelle	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-518230		JP 2003-518230
3039	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	NP	APP-Closed	DE	101385676		10138567
3040	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/002091		WO2003/017484
3041	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	EP	27507813	1417749	1417749
3042	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	DE	27507813	502017811	1417749
3043	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	DK	27507813	1417749	1417749
3044	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	FI	27507813	1417749	1417749
3045	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	FR	27507813	1417749	1417749
3046	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	GB	27507813	1417749	1417749
3047	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	IT	27507813	1417749	1417749
3048	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	EPT	MTR-Closed	SE	27507813	1417749	1417749
3049	Demodulator und Demodulationsverfahren zur Demodulation von Empfangssignalen	[redacted]	[redacted]	PCT	MTR-Closed	CN	28154819	ZL028154819	1539197
3050	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3051	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	NP	APP-Closed	DE	101355270		10135527
3052	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/002534		WO2003/013170
3053	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	EPT	MTR-Closed	DK	27350842	1410673	1410673
3054	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	MTR-Closed	ES	27350842	1410673	1410673
3055	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	EPT	MTR-Closed	FI	27350842	1410673	1410673
3056	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	MTR-Closed	FR	27350842	1410673	1410673
3057	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	MTR-Closed	GB	27350842	1410673	1410673
3058	Mobilstation und Verfahren zum Zugreifen auf einen Dienst im Bereitschaftsmodus	[redacted]	[redacted]	EPT	MTR-Closed	IT	27350842	1410673	1410673
3059	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	EPT	MTR-Closed	SE	27350842	1410673	1410673
3060	Mobilstation eines Mobilkommunikationssystems und Verfahren zum Zugreifen auf einen Dienst und/oder einen Datensatz im Bereitschaftsmodus der Mobilstation	[redacted]	[redacted]	PCT	MTR-Closed	CN	28146174	ZL028146174	1539247
3061	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3062	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	NP	APP-Closed	DE	101316542		10131654
3063	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/002089		WO2003/005600
3064	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	EP	27507805	1402632	1402632
3065	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	DE	27507805	502078057	1402632
3066	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	DK	27507805	1402632	1402632
3067	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	FI	27507805	1402632	1402632
3068	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	FR	27507805	1402632	1402632
3069	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	GB	27507805	1402632	1402632
3070	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	APP-Closed	IT	27507805	1402632	1402632
3071	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	EPT	MTR-Closed	SE	27507805	1402632	1402632
3072	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	PCT	APP-Closed	CN	28132041		1528049
3073	Arbeitspunktoptimierung von Sendeleistungsverstärkern in Mobilstationen	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-511448		JP 2003-511448

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3074	[redacted]								
3075	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			NP	APP-Closed	DE	101221967		10122196
3076	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			PCT	APP-Closed	WO	PCT/DE2002/001673		WO2002/091601
3077	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	EP	27378348	1386408	1386408
3078	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	DE	27378348	502050822	
3079	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	DK	27378348	1386408	
3080	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	FI	27378348	1386408	
3081	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	FR	27378348	1386408	
3082	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	GB	27378348	1386408	
3083	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	IT	27378348	1386408	
3084	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			EPT	MTR-Closed	SE	27378348	1386408	
3085	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			PCT	MTR-Closed	CN	28095618	ZL028095618	1507699
3086	Sendeanordnung insbesondere für den Mobilfunk sowie Verwendung einer Sendeanordnung			PCT	APP-Closed	JP	2002-587946		JP 2002-587946
3087	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			NP	APP-Closed	DE	101241798		10124179
3088	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			PCT	APP-Closed	WO	PCT/DE2002/001016		WO2002/093759
3089	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	EP	27241165	1388205	1388205
3090	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	AT	27241165	1388205	1388205
3091	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	DE	27241165	502038934	1388205
3092	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	DK	27241165	1388205	1388205
3093	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	FI	27241165	1388205	1388205
3094	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	FR	27241165	1388205	1388205
3095	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	GB	27241165	1388205	1388205
3096	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	IT	27241165	1388205	1388205
3097	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			EPT	MTR-Closed	SE	27241165	1388205	1388205
3098	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			PCT	MTR-Closed	CN	28101200	ZL028101200	1515072
3099	Vorrichtung und Verfahren zur Regelung der Ausgangsleistung von Mobilfunkstationen			PCT	APP-Closed	JP	2002-590516		JP 2002-590516
3100	Schnittstelle zur Datenübertragung			NP	APP-Closed	DE	101307977		10130797
3101	Schnittstelle zur Datenübertragung			PCT	APP-Closed	WO	PCT/DE2002/002064		WO2003/003231
3102	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	EP	27485697	1402384	1402384
3103	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	DE	27485697	502052937	1402384
3104	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	DK	27485697	1402384	1402384
3105	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	FI	27485697	1402384	1402384
3106	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	FR	27485697	1402384	1402384
3107	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	GB	27485697	1402384	1402384
3108	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	IT	27485697	1402384	1402384
3109	Schnittstelle zur Datenübertragung			EPT	MTR-Closed	SE	27485697	1402384	1402384
3110	[redacted]								
3111									
3112									
3113	Sendeanordnung mit Leistungsregelung			PCT	APP-Closed	WO	PCT/DE2002/002978		WO2003/065575
3114	Sendeanordnung mit Leistungsregelung			EPT	MTR-Closed	EP	27529817	1407543	1407543
3115	Sendeanordnung mit Leistungsregelung			EPT	MTR-Closed	DE	27529817	502016361	1407543
3116	Sendeanordnung mit Leistungsregelung			EPT	MTR-Closed	FR	27529817	1407543	1407543
3117	Sendeanordnung mit Leistungsregelung			EPT	MTR-Closed	GB	27529817	1407543	1407543
3118	Sendeanordnung mit Leistungsregelung			PCT	MTR-Closed	JP	2003-511418	4047274	2004-534472
3119	Sendeanordnung insbesondere für den Mobilfunk			NP	APP-Closed	DE	101449670		10144907
3120	Sendeanordnung insbesondere für den Mobilfunk			PCT	APP-Closed	WO	PCT/DE2002/003998		WO2003/023948
3121	Sendeanordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	EP	27743459	1425846	1425846
3122	Sendeanordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	DE	27743459	502057250	1425846
3123	Sendeanordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	FR	27743459	1425846	1425846
3124	Sendeanordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	GB	27743459	1425846	1425846
3125	[redacted]								
3126									
3127									
3128	Sendeanordnung für zeitkontinuierliche Datenübertragung			PCT	APP-Closed	WO	PCT/DE2002/004624		WO2003/056739
3129	Sendeanordnung für zeitkontinuierliche Datenübertragung			EPT	MTR-Closed	EP	27926830	1456992	1456992
3130	Sendeanordnung für zeitkontinuierliche Datenübertragung			EPT	MTR-Closed	DE	27926830	502030380	1456992
3131	Sendeanordnung für zeitkontinuierliche Datenübertragung			EPT	MTR-Closed	FR	27926830	1456992	1456992

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3132	Sendeanordnung für zeitkontinuierliche Datenübertragung	[redacted]	[redacted]	EPT	MTR-Closed	GB	27926890	1456992	1456992
3133	Sendeanordnung für zeitkontinuierliche Datenübertragung	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-557131	3970845	2005-513952
3134	Digital/Analog-Umsetzer-Schaltung mit einer Vorrichtung zur Kompensation von nichtlinearen Verzerrungen	[redacted]	[redacted]	NP	APP-Closed	DE	10155426S		10155426
3135	Digital/Analog-Umsetzer-Schaltung mit einer Vorrichtung zur Kompensation von nichtlinearen Verzerrungen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2002/003174		WO2003/043198
3136	Digital/Analog-Umsetzer-Schaltung mit einer Vorrichtung zur Kompensation von nichtlinearen Verzerrungen	[redacted]	[redacted]	EPT	MTR-Closed	EP	2772035S	1444785	1444785
3137	Digital/Analog-Umsetzer-Schaltung mit einer Vorrichtung zur Kompensation von nichtlinearen Verzerrungen	[redacted]	[redacted]	EPT	MTR-Closed	DE	2772035S	502056037	1444785
3138	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3139		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3140		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3141		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3142		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3143		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3144	Digital/Analog Converter Circuit with a Device for Compensating Nonlinear Distortions	[redacted]	[redacted]	PCT	MTR-Closed	CN	28224736	ZL028224736	1586039
3145	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3146	Ein-Punkt-Modulator mit PLL-Schaltung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/003146		WO2003/069778
3147	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3148		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3149		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3150		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3151		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3152		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3153		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3154		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3155	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	NP	APP-Closed	DE	10205305		10205305
3156	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/000309		WO2003/067793
3157	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	EP	37042892	1472844	1472844
3158	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	DE	37042892	503050318	1472844
3159	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	FR	37042892	1472844	1472844
3160	Taktsteuerung von Sendesignal-Verarbeitungseinrichtungen in Mobilfunk-Endeinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	GB	37042892	1472844	1472844
3161	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3162		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3163		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3164	Sende-/Empfangs-Einrichtung steuerbare Anwendungs-Anordnung Steuersystem für eine Anwendungs-Vorrichtung und Verfahren zum Betreiben einer Sende-/Empfangs-Einrichtung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/000407		WO2003/071366
3165	CONTROL SYSTEM AND METHOD FOR OPERATING A TRANSCEIVER	[redacted]	[redacted]	EPT	MTR-Closed	EP	37424850	1476792	1476792
3166	Sende-/Empfangs-Einrichtung steuerbare Anwendungs-Anordnung Steuersystem für eine Anwendungs-Vorrichtung und Verfahren zum Betreiben einer Sende-/Empfangs-Einrichtung	[redacted]	[redacted]	EPT	MTR-Closed	DE	37424850	503142980	1476792
3167	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3168		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3169		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3170	Schaltungsanordnung zur Frequenzumsetzung und Mobilfunkgerät mit der Schaltungsanordnung	[redacted]	[redacted]	NP	APP-Closed	DE	10211524		10211524
3171	Schaltungsanordnung zur Frequenzumsetzung und Mobilfunkgerät mit der Schaltungsanordnung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/000478		WO2003/079537
3172	Schaltungsanordnung zur Frequenzumsetzung und Mobilfunkgerät mit der Schaltungsanordnung	[redacted]	[redacted]	EPT	MTR-Closed	EP	37483058	1485992	1485992
3173	Schaltungsanordnung zur Frequenzumsetzung und Mobilfunkgerät mit der Schaltungsanordnung	[redacted]	[redacted]	EPT	MTR-Closed	DE	37483058	503006629	1485992
3174	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3175		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3176	[redacted]								
3177	Frequency Converting Circuit Arrangement and Mobile Radio Set Comprising Said Circuit Arrangement			PCT	MTR-Closed	CN	38061384	ZL038061384	1643779
3178	[redacted]								
3179	Method and device for controlling combined UMTS/GSM/EDGE radio systems			CNT	MTR-Closed	US	10/993337	7089025	US-2005-0069069-A1
3180	Verfahren und Vorrichtung zum Steuern von kombinierten UMTS/GSM/EDGE-Funksystemen			NP	APP-Closed	DE	102247986		10224798
3181	Verfahren und Vorrichtung zum Steuern von kombinierten UMTS/GSM/EDGE-Funksystemen			PCT	APP-Closed	WO	PCT/DE2003/001555		WO2003/103315
3182	Verfahren und Vorrichtung zum Steuern von kombinierten UMTS/GSM/EDGE-Funksystemen			EPT	MTR-Closed	FR	37558947	1510092	1510092
3183	VERFAHREN UND VORRICHTUNG ZUM STEUERN VON KOMBINIERTEN UMTS/GSM/EDGE-FUNKSYSTEMEN			EPT	MTR-Closed	GB	37558947	1510092	1510092
3184	VERFAHREN UND VORRICHTUNG ZUM STEUERN VON KOMBINIERTEN UMTS/GSM/EDGE-FUNKSYSTEMEN			EPT	MTR-Closed	IT	37558947	1510092	1510092
3185	[redacted]								
3186	Empfängeranordnung insbesondere für den Mobilfunk			NP	APP-Closed	DE	10228757		10228757
3187	Empfängeranordnung insbesondere für den Mobilfunk			PCT	APP-Closed	WO	PCT/DE2003/002137		WO2004/004266
3188	Empfängeranordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	EP	37614377	1516468	1516468
3189	Empfängeranordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	DE	37614377	503129720	1516468
3190	Empfängeranordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	FR	37614377	1516468	1516468
3191	Empfängeranordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	GB	37614377	1516468	1516468
3192	Empfängeranordnung insbesondere für den Mobilfunk			EPT	MTR-Closed	IT	37614377	1516468	1516468
3193	Empfängeranordnung insbesondere für den Mobilfunk			PCT	APP-Closed	CN	38158808		1666482
3194	Empfängeranordnung insbesondere für den Mobilfunk			PCT	APP-Closed	JP	2004-516501		JP 2004-516501
3195	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			PCT	APP-Closed	WO	PCT/DE2003/001427		WO2003/096583
3196	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			EPT	MTR-Closed	EP	37298601	1504538	1504538
3197	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			EPT	MTR-Closed	DE	37298601	503019372	1504538
3198	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			EPT	MTR-Closed	FR	37298601	1504538	1504538
3199	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			EPT	MTR-Closed	GB	37298601	1504538	1504538
3200	Transmitting and Receiving Arrangement with a Channel Oriented Link			PCT	MTR-Closed	CN	38109301	ZL038109301	1653708
3201	Sende- und Empfangsanordnung mit kanalorientierter Verbindung			PCT	MTR-Closed	JP	2004-508407	4027933	2005-534211
3202	Verfahren und Vorrichtung zur Durchführung mehrerer Korrelationsprozeduren in einer Mobilfunkumgebung			PCT	APP-Closed	WO	PCT/DE2003/002353		WO2004/025855
3203	[redacted]								
3204	[redacted]								
3205	Amplifier circuit			CNT	MTR-Closed	US	11/032703	7068095	US-2005-0200404-A1
3206	Verstärkerschaltung			NP	APP-Closed	DE	102911838		10291183
3207	Verstärkerschaltung			PCT	APP-Closed	WO	PCT/DE2003/002304		WO2004/006632
3208	[redacted]								
3209									
3210									
3211	Verfahren und Vorrichtung zur Parameterübergabe an einen Rake-Empfänger			NP	APP-Closed	DE	102344337		10234433
3212	Verfahren und Vorrichtung zur Parameterübergabe an einen Rake-Empfänger			PCT	APP-Closed	WO	PCT/DE2003/001169		WO2004/017533
3213	Verfahren und Vorrichtung zur Parameterübergabe an einen Rake-Empfänger			EPT	MTR-Closed	EP	37875846	1525674	1525674
3214	Verfahren und Vorrichtung zur Parameterübergabe an einen Rake-Empfänger			EPT	MTR-Closed	DE	37875846	503065250	1525674
3215	[redacted]								
3216	[redacted]								
3217	Method and Device for Passing Parameters to a Rake Receiver			PCT	MTR-Closed	CN	38182130	ZL038182130	1672339
3218	[redacted]								
3219	Circuit arrangement with radio-frequency mixer and receiver arrangement with the circuit arrangement			CNT	MTR-Closed	US	11/567834	7787851	US-2005-0197088-A1
3220	Schaltungsanordnung mit Hochfrequenzmischer und Empfängeranordnung mit der Schaltungsanordnung			NP	APP-Closed	DE	102398550		10239855
3221	Schaltungsanordnung mit Hochfrequenzmischer und Empfängeranordnung mit der Schaltungsanordnung			PCT	APP-Closed	WO	PCT/DE2003/002639		WO2004/023688
3222	Schaltungsanordnung mit Hochfrequenzmischer und Empfängeranordnung mit der Schaltungsanordnung			EPT	MTR-Closed	EP	37935905	1535402	1535402
3223	Schaltungsanordnung mit Hochfrequenzmischer und Empfängeranordnung mit der Schaltungsanordnung			EPT	MTR-Closed	DE	37935905	503123641	1535402
3224	[redacted]								
3225	Schaltungsanordnung mit Hochfrequenzmischer und Empfängeranordnung mit der Schaltungsanordnung			EPT	MTR-Closed	GB	37935905	1535402	1535402
3226	[redacted]								
3227									
3228	Vorverstärkerschaltung und Empfangsanordnung mit der Vorverstärkerschaltung			NP	APP-Closed	DE	102398542		10239854

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3229	Vorverstärkerschaltung und Empfangsanordnung mit der Vorverstärkerschaltung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/002773		WO2004/021563
3230	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3231	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3232	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3233	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3234	Sendeanordnung insbesondere für den Mobilfunk	[redacted]	[redacted]	NP	APP-Closed	DE	102346577		102346577
3235	Sendeanordnung insbesondere für den Mobilfunk	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/002477		WO2004/017530
3236	Sendeanordnung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	EP	37877248	1527524	1527524
3237	Sendeanordnung insbesondere für den Mobilfunk	[redacted]	[redacted]	EPT	MTR-Closed	DE	37877248	503134635	1527524
3238	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3239		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3240		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3241		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3242	Detecting transmit diversity mode for mobile radio receiver involves decision function based on coherent processing of 2 successive input signal complex data sets detecting phase offset between sets Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	102508615	102508615	102508615
3243	Verfahren und Vorrichtungen zur Detektion des TX-Diversity-Modes für Mobilfunkempfänger	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/003533		WO2004/040799
3244	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3245	VERFAHREN UND VORRICHTUNGEN ZUR DETEKTION DES TX-DIVERSITY-MODES FÜR MOBILFUNKEMPFÄNGER	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00388E+12	ZL200388101626456	1708937
3246	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3247	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	NP	APP-Closed	DE	102416761		10241676
3248	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2003/002815		WO2004/025918
3249	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	EPT	MTR-Closed	EP	37947959	1537711	1537711
3250	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	EPT	MTR-Closed	DE	37947959	503023094	1537711
3251	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	EPT	MTR-Closed	FR	37947959	1537711	1537711
3252	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	EPT	MTR-Closed	GB	37947959	1537711	1537711
3253	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	EPT	MTR-Closed	IT	37947959	1537711	1537711
3254	Präambel zur Schätzung und Entzerrung von Unsymmetrien zwischen Inphase- und Quadraturzweig in Mehrträger-Übertragungssystemen	[redacted]	[redacted]	PCT	MTR-Closed	CN	38213753	ZL038213753	1682509
3255	Verfahren und Vorrichtung zur Korrektur von Signalverzerrungen in einer Verstärkereinrichtung	[redacted]	[redacted]	NP	APP-Closed	DE	102553521	102553521	
3256	Verfahren und Vorrichtung zur Korrektur von Signalverzerrungen in einer Verstärkereinrichtung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2003/011958		WO2004/049563
3257	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3258		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3259	Integrierter Transceiverschaltkreis	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00413E+12	ZL200410036878X	1538628
3260	Integrated transceiver circuit for use in filtered mobile radio has frequency divider connected between voltage controlled oscillator and mixer unit to obtain demodulation frequency for mixer unit Translation from Thomson	[redacted]	[redacted]	NP	APP-Closed	DE	103175989		10317598
3261	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3262	Verfahren und Vorrichtung zur korrelativen Schätzung eines Mobilfunkkanals	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00413E+12	ZL200410043513X	1543237
3263	Mobile radio channel estimation method involves correlating received symbols with subsequences of training sequence shifted through symbol positions to calculate channel coefficients and updating impulse response of channel Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103193340	10319334	10319334
3264	Kanalqualifizierung bei einem adaptiven Frequenzsprungverfahren mittels Bit- oder Paketfehlerratenmessung und gleichzeitiger Feldstärkemessung	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00413E+12	ZL200410042265X	1551672
3265	Frequency channel selection method for frequency hopping radio communications system using evaluation of available channel transmission qualities Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103201769	10320176	
3266	Sigma-delta modulator for analog to digital converter aligns transfer function of feedback circuit dependent on stored charge on feedback capacitor to transfer function of integration circuit Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103276211	10327621	10327621
3267	METHOD AND DEVICE FOR CALCULATING ZERO-CROSSING REFERENCE SEQUENCES FOR SIGNAL DETECTION OF ANGLE-MODULATED SIGNALS BASED ON ZERO CROSSINGS OF THE RECEIVED SIGNAL	[redacted]	[redacted]	CNT	MTR-Closed	US	12/358255	7940853	US-2010-0027705-A1
3268	Calculation of zero crossing reference sequences eg for use in wireless digital communications systems whereby zero crossing sequences are calculated using an equation that describes the output of a linear status machine Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103421920	10342192	10342192

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3269	Verfahren und Vorrichtung zur Berechnung von durch-gangs-Referenzsequenzen für die Signaldetektion winkelmodu-lierter Signale auf der Basis von durchgängen des Emp-fangssignals	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2004/002019		WO2005/027458
3270	Verfahren und Vorrichtung zur Berechnung von durchgangs-Referenzsequenzen für die Signaldetektion winkelmodulierter Signale auf der Basis von durchgängen des Empfangssignals	[redacted]	[redacted]	EPT	MTR-Closed	EP	47867379	1678902	1678902
3271	Verfahren und Vorrichtung zur Berechnung von durchgangs-Referenzsequenzen für die Signaldetektion winkelmodulierter Signale auf der Basis von durchgängen des Empfangssignals	[redacted]	[redacted]	EPT	MTR-Closed	DE	47867379	5.02004E+12	1678902
3272	Verfahren und Vorrichtung zur Berechnung von durchgangs-Referenzsequenzen für die Signaldetektion winkelmodulierter Signale auf der Basis von durchgängen des Empfangssignals	[redacted]	[redacted]	EPT	MTR-Closed	FR	47867379	1678902	1678902
3273	Verfahren und Vorrichtung zur Berechnung von durchgangs-Referenzsequenzen für die Signaldetektion winkelmodulierter Signale auf der Basis von durchgängen des Empfangssignals	[redacted]	[redacted]	EPT	MTR-Closed	GB	47867379	1678902	1678902
3274	Verfahren und Vorrichtung zur Berechnung von durchgangs-Referenzsequenzen für die Signaldetektion winkelmodu-lierter Signale auf der Basis von durchgängen des Emp-fangssignals	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00488E+12	ZL200480029587.3	1864380
3275	Determination and Selection of Transmission Paths as A Function of the Operating Situation for Setting Up Rake Fingers for Rake Receiver Units in Mobile Communication Terminals	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00415E+12	ZL200410085239.9	1604500
3276	Operation dependent determination method and selection of transmission pathways eg for set up of rake receiver in mobile communication device Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103459596	10345959	10345959
3277	Propagation path channel coefficient predicting method for mobile radio system involves using anorical random variable analysis on signal having known sequence to predict channel coefficient Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103503625	10350362	10350362
3278	Analogue-digital conversion method using successive approximation with initial comparison process before first approximation stage for providing control signal for later Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103370420	10337042	10337042
3279	Verfahren zur Umsetzung eines analogen Eingangssignals und Analog-Digital-Wandler	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2004/001587		WO2005/015747
3280	Receiver diversity recognition of multi antenna transmission method eg for mobile radio reception involves producing two antenna-decoupled data streams in receiver and for both data streams respective size is calculated Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103479858	10347985	10347985
3281	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2004/001835		WO2005/026780
3282	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	EPT	MTR-Closed	FR	47626791	1664813	1664813
3283	Verfahren und Schaltungsanordnung zur Bestimmung einer in einem Zeitraum verbrauchten Ladung bei Mobilgeräten	[redacted]	[redacted]	EPT	MTR-Closed	GB	47626791	1664813	1664813
3284	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3285	Geräte mit gegenseitiger Aufweckfunktion aus dem Bereitschaftsmodus	[redacted]	[redacted]	NP	APP-Closed	CN	2.00415E+12		1592470
3286	Facility with two devices connected via an interface has function enabling each device to wake-up the other device from stand-by Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103398872	10339887	10339887
3287	Signalaufbereitungsschaltung	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00415E+12	ZL200480013854.4	1601905
3288	Signal processing circuit has divider circuit with output to direct signal with phase offset of ninety degree to another signal at other output of divider circuit and feedback path placed between input of divider circuit and mixer output Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	103448519	10344851	
3289	Frames collision detecting method for use in eg OFDM-based WLAN involves comparing estimated noise level of frame with reference noise level value and detecting collision of frame with another weaker frame based on comparison Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3290	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3291	Transceiver unit for digital communications with calibration of transmission and reception paths for reducing output signal non-linearity Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	
3292	EFFICIENT SOFTWARE DOWNLOAD TO CONFIGURABLE COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	US	09/928273	7188159	US-2002-0045441-A1
3293	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3294	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	NP	MTR-Closed	US	09/751783	7010061	US-2001-0048724-A1
3295	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	CNT	MTR-Closed	US	13/481104	8576952	US-2012-0213251-A1
3296	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	DIV	MTR-Closed	US	11/317220	7499695	US-2006-0133552-A1
3297	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	DIV	MTR-Closed	US	11/317524	7688917	US-2006-0104389-A1
3298	CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM FOR SPREAD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/035602		WO2001/050615
3299	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3300	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3301	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3302	A CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCD	MTR-Closed	GB	3288008	2393366	2393366

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3303	CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/035635		WO2001/050147
3304	A CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	DE	100853722		10085372
3305	A CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	GB	2151140	2373696	2373696
3306	CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2001-550044	4810041	
3307	CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM APPLICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2002-7008623	10-0688031	
3308	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3309	GENERIC FINGER ARCHITECTURE FOR W-CDMA APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/024541		WO2002/011309
3310	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3311	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3312	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	NP	MTR-Closed	US	09/585855	7073069	
3313	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	DIV	MTR-Closed	US	11/435012	7937594	US-2006-0208727-A1
3314	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/012479		WO2000/068791
3315	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	EPT	MTR-Closed	EP	9321530		1183603
3316	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3317	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3318	APPARATUS AND METHOD FOR A PROGRAMMABLE SECURITY PROCESSOR	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7014234	10-0717577	
3319	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3320	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3321	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	EPT	MTR-Closed	DE	19679539	601486935	1320936
3322	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	EPT	MTR-Closed	FR	19679539	1320936	1320936
3323	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	EPT	MTR-Closed	GB	19679539	1320936	1320936
3324	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/024630		WO2002/013409
3325	FLEXIBLE PREAMBLE PROCESSING FOR DETECTING A CODE SEQUENCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	19679539	1320936	1320936
3326	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3327	Power amplifier arrangement with antennas eg for transmission paths in mobile RF appliances has signal paths each coupled to input and each comprising amplifier Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3328	Interleaver for Multi-band OFDM with Time Spreading	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2004/013594		WO2005/055544
3329	INTERLEAVER FOR MULTI-BAND OFDM WITH TIME SPREADING	[redacted]	[redacted]	EPT	MTR-Closed	EP	48033732		1690396
3330	Interleaving Circuit for a Multiband OFDM Transceiver	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7011203	10-0797768	10-2006-0109484
3331	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3332	Data transmission device for transmitting data between memories eg for transferring data between volatile and non-volatile memory has at least a memory controller and an additional memory protocol controller Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3333	Vorrichtung zur Datenübertragung zwischen Speichern	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2004/002749		WO2005/073865
3334	Vorrichtung zur Datenübertragung zwischen Speichern	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0048E+12	ZL200480041072.5	1947107
3335	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3336	Mess-Schaltung für den Ausgang eines Leistungsverstärkers sowie ein die Mess-Schaltung umfassender Leistungsverstärkers	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2005/000429		WO2005/096005
3337	Mess-Schaltung für den Ausgang eines Leistungsverstärkers sowie ein die Mess-Schaltung umfassender Leistungsverstärker	[redacted]	[redacted]	EPT	MTR-Closed	FR	57387284	1728084	1728084
3338	MESS-SCHALTUNG FÜR DEN AUSGANG EINES LEISTUNGSVERSTÄRKERS SOWIE EIN DIE MESS-SCHALTUNG UMFASSENDER LEISTUNGSVERSTÄRKER	[redacted]	[redacted]	EPT	MTR-Closed	GB	57387284	1728084	1728084
3339	Mess-Schaltung für den Ausgang eines Leistungsverstärkers sowie ein die Mess-Schaltung umfassender Leistungsverstärker	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0058E+12		1938597
3340	Mess-Schaltung für den Ausgang eines Leistungsverstärkers sowie ein die Mess-Schaltung umfassender Leistungsverstärker	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2006-7019781		10-2006-0124782
3341	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3342	Verfahren und Vorrichtung zum adaptiven Aktivieren oder Deaktivieren der Koordination der Funk-Aktivitäten zweier Mobilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	NP	APP-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3343	Verfahren und Vorrichtung zum adaptiven Aktivieren oder De-aktivieren der Koordination der Funk-Aktivitäten zweier Mo-bilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2005/000464		WO2005/091563
3344	Verfahren und Vorrichtung zum adaptiven Aktivieren oder De-aktivieren der Koordination der Funk-Aktivitäten zweier Mo-bilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	FR	57351793	1726129	1726129
3345	Verfahren und Vorrichtung zum adaptiven Aktivieren oder De-aktivieren der Koordination der Funk-Aktivitäten zweier Mo-bilfunk-Sende- und/oder -Empfangseinrichtungen	[redacted]	[redacted]	EPT	MTR-Closed	GB	57351793	1726129	1726129
3346	METHOD AND DEVICE FOR ADAPTIVELY ACTIVATE OR DEACTIVATE THE CO-ORDINATION OF RADIO-COMMUNICATIONS ACTIVITIES OF TWO MOBILE TRANSMITTING AND/OR RECEIVING DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7019001	10-0805516	10-2006-0123636
3347	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
3348	Computersystem zur elektronischen Datenverarbeitung	[redacted]	[redacted]	NP	APP-Closed	DE	1.02004E+12		1.02004E+11
3349	Computersystem zur elektronischen Datenverarbeitung	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2005/000430		WO2005/091131
3350	Phasenregelkreis und Verfahren zur Phasenkorrektur eines frequenzsteuerbaren Oszillators	[redacted]	[redacted]	NP	APP-Closed	JP	2005-079989		2005-287022
3351	Radio-frequency signals transmitting arrangement for use in eg cellular telephone has filter device with input and output and matching apparatus connected between input and connection of radio-frequency antenna arrangement Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12		1.02004E+11

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3352	Sendeanordnung Empfangsanordnung Transceiver sowie Verfahren zum Betreiben einer Sendeanordnung	[redacted]	[redacted]	NP	APP-Closed	JP	2005-155932		2005-341594
3353	Data processing device for mobile radio has filter unit to pulse shape and oversample baseband signal predistortion unit to predistort signal and control unit to control predistortion unit as function of baseband signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3354	Dual Carrier CDMA for MB-OFDM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2005/002259		WO2005/086445
3355	Dual carrier CDMA for the multi-band OFDM	[redacted]	[redacted]	PSP	APP-Closed	US	60/551309		
3356	Leistungsregelung in Hochfrequenz-Sendern	[redacted]	[redacted]	NP	APP-Closed	DE	1.02004E+12		1.02004E+11
3357	Leistungsregelung in Hochfrequenz-Sendern	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2005/001843		WO2005/112298
3358	Leistungsregelung in Hochfrequenz-Sendern	[redacted]	[redacted]	PCT	MTR-Closed	CN	200580014860X	ZL200580014860X	1698157
3359	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3360	FRACTIONAL DIVIDER SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	US	11/154095	7209534	US-2006-0001498-A1
3361	A FRACTIONAL DIVIDER SYSTEM AND METHOD	[redacted]	[redacted]	EPA	APP-Closed	EP	05154239		1612942
3362	A FRACTIONAL DIVIDER SYSTEM AND METHOD	[redacted]	[redacted]	EPA	APP-Closed	DE	05154239		1612942
3363	Circuit arrangement for eg mobile radio technology has set of circuit blocks operating at two different supply voltages where one block is coupled to other block by voltage level shifting unit Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3364	Suppression of disturbances caused by burst-like changes of the data rate during synchronous radio transmission	[redacted]	[redacted]	NP	APP-Closed	US	11/159528		US-2006-0002295-A1
3365	Unterdrückung von durch Burst-artige Veränderungen der Datenrate verursachten Störungen bei synchroner Funkübertragung	[redacted]	[redacted]	NP	APP-Closed	DE	1.02004E+12		1.02004E+11
3366	Transmitting and receiving arrangement with interference signal suppression control	[redacted]	[redacted]	NP	APP-Closed	JP	2005-151929		2005-341579
3367	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3368	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3369	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3370	AMPLIFIER ARRANGEMENT FOR MOBILE RADIO SYSTEM HAS OUTPUT CIRCUIT HAVING AMPLIFIER OUTPUT OF AMPLIFIER ARRANGEMENT AND OUTPUT CIRCUIT DESIGNED SUCH THAT GAIN IS REGULATED BETWEEN TWO GAIN SETTINGS TRANSLATION FROM THOMSON	[redacted]	[redacted]	EPA	MTR-Closed	DE	1.02005E+12		1.02005E+11
3371	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3372	RADIO RECEIVER FOR THE RECEPTION OF DATA BURSTS WHICH ARE MODULATED WITH TWO MODULATION TYPES	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00515E+12	ZL200510124969O	1770644
3373	Radio receiver for receiving of data bursts whereby data burst has first and second section and first and second receipt path is for processing of first and second section respectively Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3374	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
3375	Digitale Programmierschnittstelle zwischen einem Basisband-prozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	NP	APP-Closed	DE	1.02004E+12		1.02004E+11
3376	Digitale Programmierschnittstelle zwischen einem Basisbandprozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	EPA	MTR-Closed	FR	50163393	1635466	1635466
3377	Digitale Programmierschnittstelle zwischen einem Basisbandprozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	EPA	MTR-Closed	GB	50163393	1635466	1635466
3378	Digitale Programmierschnittstelle zwischen einem Basisbandprozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	EPA	MTR-Closed	NL	50163393	1635466	1635466
3379	Digitale Programmierschnittstelle zwischen einem Basisband-prozessor und einem integrierten Hochfrequenzbaustein	[redacted]	[redacted]	NP	MTR-Closed	JP	2005-260894	4160068	2006-079621
3380	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3381	Embedded communication terminal for eg cellular mobile radio communication network has interface device with interface processor and interface memory where interface device is coupled to application processor Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02005E+12	1.02005E+11	1.02005E+11
3382	Embedded communication terminal	[redacted]	[redacted]	NP	MTR-Closed	GB	6094387	2426156	2426156
3383	Spannungsgesteuerte Oszillatorschaltung mit analoger und digitaler Ansteuerung	[redacted]	[redacted]	NP	MTR-Closed	CN	200510138030X	ZL200510138030X	1794567
3384	Voltage controlled oscillator circuit for eg mobile communication has capacitive component configured by digital bit value and control unit that determines if voltage is in specific voltage range and increases or decreases value Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3385	Spannungsgesteuerte Oszillatorschaltung mit analoger und digitaler Ansteuerung	[redacted]	[redacted]	EPA	APP-Closed	EP	50253558		1670136
3386	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3387	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3388	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3389	Spannungsgesteuerte Oszillatorschaltung mit analoger und digitaler Ansteuerung	[redacted]	[redacted]	NP	APP-Closed	JP	2005-357369		2006-174485
3390	Data processing device	[redacted]	[redacted]	NP	APP-Closed	US	11/317840		US-2006-0195807-A1
3391	Datenverarbeitungseinrichtung Telekommunikations-Endgerät und Verfahren zur Datenverarbeitung mittels einer Datenverarbeitungseinrichtung	[redacted]	[redacted]	NP	APP-Closed	CN	2.00515E+12		1794256

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3392	DATENVERARBEITUNGSEINRICHTUNG TELEKOMMUNIKATIONS-ENDGERÄT UND VERFAHREN ZUR DATENVERARBEITUNG MITTELS EINER DATENVERARBEITUNGSEINRICHTUNG	[redacted]	[redacted]	NP	MTR-Closed	FR	513214	2885424	2885424
3393	Data processing device telecommunication terminal and method for processing data by means of a data processing device	[redacted]	[redacted]	NP	APP-Closed	GB	5263702		2421610
3394	Datenverarbeitungseinrichtung Telekommunikations-Endgerät und Verfahren zur Datenverarbeitung mittels einer Datenverarbeitungseinrichtung	[redacted]	[redacted]	NP	APP-Closed	JP	2005-373541		2006-179011
3395	DATENVERARBEITUNGSEINRICHTUNG TELEKOMMUNIKATIONS-ENDGERÄT UND VERFAHREN ZUR DATENVERARBEITUNG MITTELS EINER DATENVERARBEITUNGSEINRICHTUNG	[redacted]	[redacted]	DIV	MTR-Closed	JP	2009-234157		2010-092488
3396	Datenverarbeitungseinrichtung Telekommunikations-Endgerät und Verfahren zur Datenverarbeitung mittels einer Datenverarbeitungseinrichtung Data processing device telecommunication-terminal equipment and method for data processing by means of a data processing device	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2005-0127668	10-0774013	10-2006-0073474
3397	Verfahren zum automatischen Erzeugen und/oder Steuern einer Telekommunikations-Konferenz mit einer Vielzahl von Teilnehmern Telekommunikations-Konferenz-Endgerät und Telekommunikations-Konferenz-Servereinrichtung	[redacted]	[redacted]	NP	MTR-Closed	CN	200510138098X	ZL200510138098X	1801970
3398	TELECOMMUNICATION CONFERENCE PRODUCING AND/OR CONTROLLING METHOD FOR 3GPP OR UMTS MOBILE TELECOMMUNICATION SYSTEM INVOLVES PRODUCING CONFERENCE AND/OR ADDING PARTICIPANTS TO CONFERENCE IF STORED CONDITION DEFINED FOR USER IS SATISFIED TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02004E+12	1.02004E+11	1.02004E+11
3399	Verfahren zum automatischen Erzeugen und/oder Steuern einer Telekommunikations-Konferenz mit einer Vielzahl von Teilnehmern Telekommunikations-Konferenz-Endgerät und Telekommunikations-Konferenz-Servereinrichtung	[redacted]	[redacted]	NP	MTR-Closed	FR	511245		2877791
3400	Signals predistortion method involves selecting table from set of two tables based on determined operating condition and selecting pre distortion coefficient from selected table based on performance word and component Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02005E+12	1.02005E+11	
3401	Steuerbarer Verstärker und dessen Verwendung	[redacted]	[redacted]	NP	APP-Closed	DE	1.02005E+12		1.02005E+11
3402	Controllable amplifier and the use thereof	[redacted]	[redacted]	NP	MTR-Closed	US	11/358623	7889005	US-2006-0202760-A1
3403	Steuerbarer Verstärker und dessen Verwendung	[redacted]	[redacted]	NP	MTR-Closed	JP	2006-045627	4664835	2006-238447
3404	Schnellstartschaltung für Quarz-Oszillatoren	[redacted]	[redacted]	NP	APP-Closed	DE	1.02005E+12		1.02005E+11
3405	Schnellstartschaltung für Quarz-Oszillatoren	[redacted]	[redacted]	EPA	MTR-Closed	EP	50271196	1681768	1681768
3406	Schnellstartschaltung für Quarz-Oszillatoren	[redacted]	[redacted]	EPA	MTR-Closed	DE	50271196	5.02005E+12	1681768
3407	Schnellstartschaltung für Quarz-Oszillatoren	[redacted]	[redacted]	EPA	MTR-Closed	FR	50271196	1681768	1681768
3408	Schnellstartschaltung für Quarz-Oszillatoren	[redacted]	[redacted]	EPA	MTR-Closed	GB	50271196	1681768	1681768
3409	digital phase locked loop method for controlling a digital phase locked loop and method for generating an oscillator signal	[redacted]	[redacted]	NP	APP-Closed	US	11/477262		US-2007-0008040-A1
3410	Verfahren zum Verarbeiten von Messsteuerungsnachrichten und Mobilfunk-Kommunikationsendgerät	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2006/000764		WO2006/116987
3411	Verfahren zum Verarbeiten von Messsteuerungsnachrichten und Mobilfunk-Kommunikationsendgerät	[redacted]	[redacted]	EPT	MTR-Closed	GB	67531673	1878288	1878288
3412	Method for Processing Measurement Control Messages and Mobile Radio Communications Terminal	[redacted]	[redacted]	PCT	APP-Closed	US	11/913609		US-2008-0167026-A1
3413	Signal amplifier arrangement for use in mobile communication device has switchable units attached with connection at output and with another connection where units change impedance at output based on switching position of switching units Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02005E+12	1.02005E+11	1.02005E+11
3414	Verstärkeranordnung Polartransmitter mit der Verstärkeranordnung und Verfahren zur Signalverstärkung	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02005E+12		1.02005E+11
3415	Sendeanordnung Sende-Empfänger mit der Sendeanordnung und Verfahren zur Signalverarbeitung	[redacted]	[redacted]	NP	APP-Closed	DE	1.02005E+12		1.02005E+11
3416	Sendeanordnung Sende-Empfänger mit der Sendeanordnung und Verfahren zur Signalverarbeitung	[redacted]	[redacted]	NP	APP-Closed	JP	2006-189200		2007-020192
3417	APPARATUS AND METHOD FOR FORMING AND ASCERTAINING SYSTEM INFORMATION FROM SYSTEM INFORMATION MEDIUM ACCESS CONTROL PROTOCOL MESSAGES	[redacted]	[redacted]	NP	APP-Closed	US	11/468005		US-2007-0053383-A1
3418	TRANSCEIVER	[redacted]	[redacted]	CNT	APP-Closed	US	14/516188		US-2015-0103966-A1
3419	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3420									
3421	Sendeendstufe mit einstellbarer Ausgangsleistung und Verfahren zum Verstärken eines Signals in einer Sendeendstufe	[redacted]	[redacted]	NP	APP-Closed	DE	1.02005E+12		1.02005E+11
3422	Phase locked loop circuitry with digital loop filter	[redacted]	[redacted]	EPA	APP-Closed	EP	60018868		1814230
3423	Phase locked loop circuitry with digital loop filter	[redacted]	[redacted]	EPA	APP-Closed	DE	60018868		1814230
3424	Phase locked loop circuitry with digital loop filter	[redacted]	[redacted]	EPA	APP-Closed	FR	60018868		1814230
3425	Phase locked loop circuitry with digital loop filter	[redacted]	[redacted]	EPA	APP-Closed	GB	60018868		1814230
3426	Integrated circuit arrangement a method for monitoring access requests to an integrated circuit arrangement component of an integrated circuit arrangement and a computer program product	[redacted]	[redacted]	EPA	MTR-Closed	FR	61147328	1862908	1862908
3427	Integrated circuit arrangement a method for monitoring access requests to an integrated circuit arrangement component of an integrated circuit arrangement and a computer program product	[redacted]	[redacted]	EPA	MTR-Closed	GB	61147328	1862908	1862908
3428	Mixer circuit and RF transmitter using such mixer circuit	[redacted]	[redacted]	EPA	APP-Closed	EP			
3429	Mixer circuit and RF transmitter using such mixer circuit	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/SE2005/002017		WO2007/073299
3430	MIXER CIRCUIT AND RF TRANSMITTER USING SUCH MIXER CIRCUIT	[redacted]	[redacted]	EPT	MTR-Closed	EP	58219627		1969716
3431	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3432	CAPACITOR ARRANGEMENT FOR TUNEABLE VOLTAGE-CONTROLLED OSCILLATOR HAS CONTROL INPUT COUPLED TO REFERENCE NODE BASED UPON STATE THAT IS OPERABLE TO ALTER CAPACITANCE OF CAPACITOR UNITS TO SELECTIVELY CONNECT OR DISCONNECT UNITS TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12		1.02006E+11
3433	Circuit arrangement and method for setting an analog output signal	[redacted]	[redacted]	NP	MTR-Closed	JP	2007-133762	4652379	2008-048397
3434	Dispositif emetteur-recepteur et procede de traitement dun signal	[redacted]	[redacted]	NP	MTR-Closed	FR	700823	2898744	2898744
3435	Signal processing system for detecting audio data has decision-making device that is configured to flag received signal frame as audio signal frame when succession of bits represents piece of secondary information Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3436	Signal processing system for detecting audio data has decision-making device that is configured to flag received signal frame as audio signal frame when succession of bits represents piece of secondary information Translation from Thomson	[redacted]	[redacted]	DIV	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3437	TRANSMITTING DATA BETWEEN A DATA PROCESSING DEVICE AND A MODEM	[redacted]	[redacted]	NP	APP-Closed	US	11/865197		US-2008-0080602-A1
3438	METHODS DATA PROCESSING DEVICE AND COMPUTER PROGRAM PRODUCTS FOR TRANSMITTING DATA	[redacted]	[redacted]	NP	APP-Closed	CN	2.0071E+12		101163146
3439	Verfahren zur Datenübertragung Datenverarbeitungsvorrichtung und Computerprogrammprodukte zur Datenübertragung	[redacted]	[redacted]	NP	APP-Closed	DE	1.02006E+12		1.02006E+11
3440	DATA TRANSMISSION IN A TELECOMMUNICATION CONFERENCE	[redacted]	[redacted]	CNT	MTR-Closed	US	13/557933	8761156	US-2012-0289212-A1
3441	Kommunikationsendgerät Verfahren zum Versenden von Kommunikationsdaten Konferenzservereinrichtung und Verfahren zum Weiterleiten von Kommunikationsdaten	[redacted]	[redacted]	NP	MTR-Closed	CN	2.0071E+12	ZL200710149428.2	101132554
3442	Communication terminal is mobile radio subscriber appliance for push-to-talk conference has control device controlling transmission device such that transmission device sends data in one mode in which data rate is high Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12		1.02006E+11
3443	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3444	Digitally controlled oscillator gradient factor determining arrangement for digital phase locked loop has identification device outputting gradient factor based on setting word interval magnitude and modulation word Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3445	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3446	Verfahren zum Erzeugen eines Verkehr-Verschlüsselung-Schlüssels Verfahren zum Übertragen von Daten Einrichtungen zum Erzeugen eines Verkehr-Verschlüsselung-Schlüssels Datenuebertragungs-Anordnung	[redacted]	[redacted]	NP	MTR-Closed	CN	1.0081E+12	ZL200810096665.1	101272243
3447	Traffic encryption key generating method for transmitting data eg football match in frame of service eg pay TV involves determining validity period of residual encryption key and associating period of residual key to residual key Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02007E+12	1.02007E+11	1.02007E+11
3448	PROCEDE DE GENERATION DUNE CLE DE CHIFFREMENT DE TRAFIC PROCEDE DE TRANSMISSION DE DONNEES DISPOSITIFS DE GENERATION DUNE CLE DE CHIFFREMENT DE TRAFIC AGENCEMENT DE TRANSMISSION DE DONNEES	[redacted]	[redacted]	NP	MTR-Closed	FR	800461	2912270	2912270
3449	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3450	Receiver s phase and/or amplitude error compensating method for mobile radio unit involves determining error-compensated complex signal component and estimating correction parameter based on function of ratio of complex signal components Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3451	Mobile radio cell system information generating and transmitting method for global system for mobile communications -based mobile radio-communication system involves grouping information to verify whether subscriber unit has access to cell Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3452	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/DE2007/001590		WO2008/034408
3453	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	EP	78013257	2044796	2044796
3454	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	DE	78013257	5.02007E+12	2044796
3455	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	ES	78013257	2044796	2044796
3456	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	R	78013257	2044796	2044796

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3457	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	FR	78013257	2044796	2044796
3458	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	GB	78013257	2044796	2044796
3459	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	IT	78013257	2044796	2044796
3460	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	PL	78013257	2044796	2044796
3461	Verfahren zum Erzeugen und Senden von Systeminformationen Netzwerkeinrichtung Verfahren zum Überprüfen ob einem Mobilfunk-Teilnehmergerät der Zugang in einer Mobilfunkzelle ermöglicht ist Mobilfunk-Teilnehmergerät und Verfahren zum Ermitteln von gültigen Systeminformationen	[redacted]	[redacted]	EPT	MTR-Closed	SE	78013257	2044796	2044796
3462	AGRUPAMENTO DE INFORMACOES DE ACESSO DE CÉLULA DE TERMINAL DE USUÁRIO EM UN BLOCO DE INFORMACOES DE UMA INFORMACAO DE SISTEMA	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0717065-3		PI0717065-3
3463	VERFAHREN ZUM ERZEUGEN UND SENDEN VON SYSTEMINFORMATIONEN NETZWERKEINRICHTUNG VERFAHREN ZUM ÜBERPRÜFEN OB EINEM MOBILFUNK-TEILNEHMERGERÄT DER ZUGANG IN EINER MOBILFUNKZELLE ERMÖGLICHT IST MOBILFUNK-TEILNEHMERGERÄT UND VERFAHREN ZUM ERMITTELN VON GÜLTIGEN SYSTEMINFORMATIONEN	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00788E+12	ZL200780036493	101516131
3464	Grouping of User Terminal Cell Access Information in a System Information Frame	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2009-7008129	10-1078932	10-2009-0061058
3465	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3466	Phase Locked Loop Transceiver Device and Method for Generating an Oscillator Signal	[redacted]	[redacted]	NP	P&T-Closed	US	11/925378	7692498	US-2008-0106341-A1
3467	Phasenregelkreis und Verfahren zum Erzeugen eines Oszillatorsignals	[redacted]	[redacted]	NP	APP-Closed	DE	1.02006E+12		1.02006E+11
3468	Phase and frequency comparator used in digital phase-locked loop (PLL) has differential unit that has output for transmitting phase error word with predetermined word width as function of difference between counter word and integrator word Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	
3469	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3470	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	EPA	MTR-Closed	FR	70208277	1921745	1921745
3471	SHARED LINEARITY MAINTENANCE IN POWER AMPLIFIERS	[redacted]	[redacted]	EPA	MTR-Closed	GB	70208277	1921745	1921745
3472	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3473	Communication terminal eg mobile telephone has message production device arranged to produce information requirement message that specifies information about another communication terminal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02006E+12	1.02006E+11	1.02006E+11
3474	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3475	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	ES	87358982	2132676	2132676
3476	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	87358982	2132676	2132676
3477	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	87358982	2132676	2132676
3478	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	IT	87358982	5.02014E+14	2132676
3479	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	PCD	APP-Closed	JP	2013-280255		2013-118650
3480	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	NL	87358982	2132676	2132676
3481	Communication terminal device comunication device electronic card method for a communication terminal device and method for a communication device for providing a verification	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2008/054166		WO2008/122627
3482	COMMUNICATION TERMINAL DEVICE COMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	EPT	MTR-Closed	PL	87358982	2132676	2132676

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3483	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	ETD	MTR-Closed	EP	121901607		2560121
3484	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE ELECTRONIC CARD METHOD FOR A COMMUNICATION TERMINAL DEVICE AND METHOD FOR A COMMUNICATION DEVICE FOR PROVIDING A VERIFICATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00888E+12	ZL200880012796	101692782
3485	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3486	Computing unit ie communication device such as mobile communication device has software control unit controlling additional transmission operations of data transmission unit based on information contained in one portion of data Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12		1.02008E+11
3487	POLAR MODULATOR WITH SIGNED AMPLITUDE REDUCING PHASE TRANSITIONS	[redacted]	[redacted]	NP	MTR-Closed	US	11/675002	7945223	US-2008-0182551-A1
3488	Polar modulator for use in eg personal digital assistant has mixer coupled to digital-to-analog converter to receive analog signal generated from augmented signal and signal converter configured to provide augmented signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3489	AMPLIFIER TRANSMITTER ARRANGEMENT HAVING AN AMPLIFIER AND METHOD FOR AMPLIFYING A SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3490	INTERFERENCE SUPPRESSION PROCESSING UNIT AND A METHOD OF SUPPRESSING INTERFERENCE IN WIRELESS DATA COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	US	11/757882	7961782	US-2008-0298521-A1
3491	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3492	CIRCUIT ARRANGEMENT WITH INTERFERENCE PROTECTION	[redacted]	[redacted]	NP	MTR-Closed	US	11/711210	7733165	US-2008-0204128-A1
3493	Protection circuit arrangement for eg integrated circuit has protective circuit coupled with supply and grounding lines to prevent supply of interfering signals in one of switching circuits and return of interfering signals Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3494	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3495	MULTIBAND RF DEVICE	[redacted]	[redacted]	NP	APP-Closed	US	12/818812		US-2011-0117862-A1
3496	MULTIBAND RF DEVICE	[redacted]	[redacted]	CNT	APP-Closed	US	15/071508		US-2016-0211820-A1
3497	MULTI OPERATION MODE AMPLIFIER EG VOLTAGE AMPLIFIER ARRANGEMENT FOR EG MOBILE COMMUNICATION DEVICE HAS ADJUSTABLE POWER SOURCE CONNECTED AND EQUIPPED WITH AMPLIFIER TO SUPPLY CONSTANT DRAIN CURRENT THROUGH SELECTIVE FETS TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3498	TRANSMISSION UNIT FOR EG GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS SYSTEM RADIO COMMUNICATION SYSTEM HAS DATA PROCESSING UNIT GENERATING CONFIGURATION MACRO COMPRISING INFORMATION ABOUT TEMPORAL POSITION OF TIME SLOT WITHIN FRAME TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12		1.02008E+11
3499	CONFIGURABLE TRANSCEIVERS	[redacted]	[redacted]	CNT	APP-Closed	US	13/545114		US-2012-0275498-A1
3500	WIRELESS SIGNAL TRANSMITTING AND RECEIVING DEVICE FOR MULTIPLE INPUT/MULTIPLE OUTPUT TRANSCEIVER SYSTEM HAS PROCESSING ELECTRONICS RECEIVING DATA FROM DIGITAL SIGNAL PROCESSOR AND TRANSMITTING DATA TO ANOTHER DIGITAL SIGNAL PROCESSOR TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12		1.02009E+11
3501	Radio-frequency signal processing circuit arrangement for eg mobile radio telephone has supply unit coupled to regulating unit for supplying switching signal to provide result that useful frequency is multiple of switching frequency Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02007E+12		1.02007E+11
3502	Multi-mode modulator eg multi-mode in-phase-quadrature modulation transmitter for mobile phone has data path for processing in-phase signals and multiplexer for selectively switching polar amplitude data in response to selection signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3503	DIGITAL BASEBAND SIGNAL COMMUNICATING CIRCUIT HAS FRAME BUFFER RECEIVING APPLICATION DATA AS FUNCTION OF CONTROL SIGNAL AND ENABLING PRESENTATION OF SELECTIVELY RECEIVED DATA AT DIGITAL BASEBAND PROCESSOR OVER COMMON DIGITAL INTERFACE TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3504	METHOD AND APPARATUS FOR REGULATING A POWER AMPLIFIER	[redacted]	[redacted]	NP	MTR-Closed	US	12/238975	8588734	US-2009-0088100-A1
3505	POLAR MODULATION WITHOUT ANALOG FILTERING	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00815+12	ZL200810212069S	101388878
3506	DIGITAL POLAR MODULATOR FOR USE IN EG OPTICAL COMMUNICATION SYSTEM HAS INTERPOLATOR UPSAMPLING AND INTERPOLATING DIGITAL AMPLITUDE SIGNAL MODULATOR COMBINING PHASE SIGNAL AND ANALOG AMPLITUDE SIGNAL AND OUTPUTTING MODULATED SIGNAL TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12		1.02008E+11
3507	Signal transmission device for eg universal mobile telecommunication system has error computation unit providing error signal and error correction unit receiving output signal and error signal and providing transmission signal Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12	1.02009E+11	1.02009E+11
3508	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2008/059567		WO2009/019129
3509	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	EPT	MTR-Closed	EP	87863031		2176994
3510	METHOD FOR PERFORMING A MEASUREMENT BY A COMMUNICATION DEVICE AND COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00888E+12	ZL200880101717S	101772927
3511	Systems and Methods for Driving a Transistor	[redacted]	[redacted]	NP	MTR-Closed	US	11/953639	7982444	US-2009-0147542-A1
3512	DETERMINING A RECEIVING QUALITY IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00815+12	ZL200810161914	101370227

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3513	Radio communication terminal eg frequency division multiple access type multicarrier mobile radio communication device has control unit for controlling measurement circuit such that measurement is carried out using determined bandwidth Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3514	Détermination de la Qualité de Réception dans un Dispositif de Communication Radio	[redacted]	[redacted]	NP	MTR-Closed	FR	858393		2919979
3515	DETERMINING A RECEIVING QUALITY IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	JP	2008-205963	4874308	2009-060601
3516	DETERMINING A RECEIVING QUALITY IN A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2008-0077776	10-1035804	10-2009-0015857
3517	EVENT-DRIVEN TIME-INTERVAL MEASUREMENT	[redacted]	[redacted]	NP	MTR-Closed	US	11/855415	7804290	US-2009-0072812-A1
3518	SYSTEM AND METHODS FOR SELF-CALIBRATING TRANSCEIVERS	[redacted]	[redacted]	EPA	MTR-Closed	EP	80182611		2066047
3519	STORING PORTIONS OF A DATA TRANSFER DESCRIPTOR IN CACHED AND UNCACHED ADDRESS SPACE	[redacted]	[redacted]	NP	APP-Closed	US	11/936309		US-2009-0119460-A1
3520	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3521	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3522	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	MTR-Closed	ES	81665721	2053900	2053900
3523	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	MTR-Closed	FR	81665721	2053900	2053900
3524	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	MTR-Closed	GB	81665721	2053900	2053900
3525	RADIO COMMUNICATION DEVICES AND METHOD FOR CONTROLLING FREQUENCY SELECTION	[redacted]	[redacted]	EPA	MTR-Closed	IT	81665721	2053900	2053900
3526	Frequency synthesis technique improving circuit for eg electronic device has phase-locked loop portion for receiving intermediate output and for generating phase-locked output frequency based on frequency information Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12		1.02009E+11
3527	Wireless multimode receiver for eg cell phone has blocker cancellation circuit coupled to duplex filter and rejecting unwanted blocker signal from receiver based on compensation method employing feed-forward cancellation Translation from Thomson	[redacted]	[redacted]	NP	APP-Closed	DE	1.02009E+12		1.02009E+11
3528	RECEIVING AND PROCESSING DATA	[redacted]	[redacted]	NP	APP-Closed	US	12/147784		US-2009-0323860-A1
3529	Data receiving and processing method for communication system involves generating projection operator and applying projection operator to data stream such that data is separated from data stream Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12	1.02009E+11	1.02009E+11
3530	EMPFANGEN UND VERARBEITEN VON DATEN	[redacted]	[redacted]	DIV	MTR-Closed	DE	1.02009E+12	1.02009E+11	
3531	Error data retransmitting method for eg mobile radio communication system involves identifying symbols in decoded data blocks where symbols are subjected to integrity criterion and retransmitting part of blocks based on symbols Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	1.02008E+11
3532	REFERENCE FREQUENCY CONTROL IN MULTI-MODAL DEVICES	[redacted]	[redacted]	NP	MTR-Closed	US	12/031599	8588707	US-2009-0209251-A1
3533	Systems and Methods for Transmitter/Receiver Diversity	[redacted]	[redacted]	NP	APP-Closed	US	12/179143		US-2010-0022192-A1
3534	STRATEGY FOR USING THE ENVELOPE INFORMATION WITHIN A CLOSED LOOP POWER CONTROL SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	12/130835	7970364	US-2009-0298448-A1
3535	RADIO FREQUENCY COMMUNICATION DEVICE FOR TRANSMITTING POWER TO ANTENNA COMPRISES COUPLER HAVING PORTS AND ADJUSTABLE TERMINATION COUPLED TO PORT AND ADJUSTABLE BASED ON DYNAMIC OPERATING CONDITION OF RADIO FREQUENCY COMMUNICATION DEVICE TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12		1.02009E+11
3536	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3537	Device for producing output signal as function of input signal and for multiplying input signal with current has input and two circuit sections where two circuit sections are coupled with input Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12		1.02008E+11
3538	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3539	Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12	1.02009E+11	1.02009E+11
3540	RADIO FREQUENCY COMMUNICATION DEVICES AND METHODS	[redacted]	[redacted]	NP	MTR-Closed	CN	2.0091E+12	ZL200910151767	101662295
3541	Multi-band communication transceiver is quad-band transceiver for eg quad-band phone has filter elements coupled to reception paths where filter elements form differential output signal based on respective frequency components Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12		1.02009E+11
3542	Active communication meetings determining method for use in push-to-talk conference system involves sending answer which indicates that communication meetings do not exists at present by push-to-talk server Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02008E+12	1.02008E+11	
3543	Verfahren zur Ermittlung aktiver Kommunikationssitzungen und Kommunikationssitzungs-Informationsserver	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2009/056974		WO2009/153178
3544	VERFAHREN ZUR ERMITTLUNG AKTIVER KOMMUNIKATIONSSITZUNGEN UND KOMMUNIKATIONSSITZUNGS-INFORMATIONSSERVER	[redacted]	[redacted]	EPT	MTR-Closed	EP	97657563		2288238
3545	METHOD FOR DETERMINING ACTIVE COMMUNICATION SESSIONS AND COMMUNICATION SESSION INFORMATION SERVER	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0098E+12	ZL200980128629	102067594
3546	METHOD FOR DETERMINING ACTIVE COMMUNICATION SESSIONS AND COMMUNICATION SESSION INFORMATION SERVER	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2011-7001473	10-1245389	10-2011-0031954
3547	METHOD FOR DETERMINING ACTIVE COMMUNICATION SESSIONS AND COMMUNICATION SESSION INFORMATION SERVER	[redacted]	[redacted]	PCT	MTR-Closed	US	12/999316	8700706	US-2011-0093537-A1
3548	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3549	Decodierer für Fehlerkorrekturcodes	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02009E+12	1.02009E+11	1.02009E+11
3550	Methods for Controlling an Uplink Signal Transmission Power and Communication Devices	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2009/061222		WO2010/028971
3551	Method for Determining the Type of a Mobile Radio Base Station, Radio Communication Smart Card Device	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2009/061227		WO2010/031677

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3552	Method for Determining the Type of a Mobile Radio Base Station; Radio Communication Smart Card Device	[redacted]	[redacted]	EPT	MTR-Closed	EP	97824148		1342921
3553	METHOD AND DEVICE FOR TRANSFERRING DATA	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01101E+12	ZL201010003721.1	101795154
3554	Data transferring method for mobile radio transceiver to mobile radio engineering involves transferring data packets between base band and radio-frequency assemblies where start times of packets are offset with respect to time grid Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
3555	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	APP-Closed	US	12/366025		US-2010-0195586-A1
3556	MULTIBAND-OPERATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2010-0011969	10-1176712	10-2010-0090212
3557	FAST PHASE ALIGNMENT FOR CLOCK AND DATA RECOVERY	[redacted]	[redacted]	NP	MTR-Closed	US	12/490185	8699647	US-2010-0322367-A1
3558	PERMANENT DEDICATED RANDOM ACCESS PREAMBLES FOR FEMTOCELL	[redacted]	[redacted]	NP	MTR-Closed	US	12/493259	8428015	US-2010-0329193-A1
3559	TUNABLE MUTUAL ANTENNA DECOUPLING SYSTEM FOR PERFORMING VIDEO APPLICATIONS IN MOBILE PHONE OF MOBILE COMMUNICATION INDUSTRY HAS BASEBAND MODULE DETERMINING PARAMETERS THAT AFFECT CONTROL SIGNAL TO MINIMIZE MUTUAL COUPLING BETWEEN ANTENNAS TRANSLATION FROM THOMSON	[redacted]	[redacted]	NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
3560	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	NP	MTR-Closed	US	12/614440	9008581	US-2011-0111764-A1
3561	Funkgeräte und Verfahren zum Steuern von Funkgeräten	[redacted]	[redacted]	NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
3562	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2010-0113545	10-1287893	10-2011-0050578
3563	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2012-0043798	10-1298805	10-2012-0047222
3564	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2012-0131291	10-1389224	10-2013-0009724
3565	RADIO DEVICES AND METHODS FOR CONTROLLING RADIO DEVICES	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2013-0043846	10-1427520	10-2013-0053431
3566	PHASE-LOCK IN ALL-DIGITAL PHASE-LOCKED LOOPS	[redacted]	[redacted]	NP	MTR-Closed	US	12/575196	8384468	US-2011-0081863-A1
3567	All digital phase-lock loop circuit for use in eg wireless communication system has digitally controlled oscillator determining error generated by using tuning word and storing information related to error Translation from Thomson	[redacted]	[redacted]	NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
3568	COMPENSATION OF PHASE LOCK LOOP (PLL) PHASE DISTRIBUTION CAUSED BY POWER AMPLIFIER RAMPING	[redacted]	[redacted]	DIV	APP-Closed	US	13/280610		US-2012-0092048-A1
3569	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3570	METHOD FOR TRANSMITTING A DATA SIGNAL IN A MIMO SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	12/813169	8401105	US-2011-0305284-A1
3571	DEVICE AND METHOD FOR SELECTING A PATH FROM AN ESTIMATED DELAY PROFILE OF A RADIO SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	US	12/705670	8842781	US-2011-0200075-A1
3572	OSZILLATOR MIT KAPAZITÄTSFELD	[redacted]	[redacted]	NP	MTR-Closed	DE	1.0201E+12		1.0201E+11
3573	APPARATUS AND METHOD FOR ANTENNA DIVERSITY RECEPTION	[redacted]	[redacted]	NP	MTR-Closed	US	12/708334	9020074	US-2011-0200144-A1
3574	TEMPERATURE COMPENSATION FOR AN OSCILLATOR CRYSTAL	[redacted]	[redacted]	CNT	APP-Closed	US	15/132817		US-2017-0085271-A1
3575	TEMPERATURE COMPENSATION FOR AN OSCILLATOR CRYSTAL	[redacted]	[redacted]	CNT	APP-Closed	US	15/415307		US-2017-0134028-A1
3576	ON-CHIP SELF CALIBRATING DELAY MONITORING CIRCUITRY	[redacted]	[redacted]	DIV	APP-Closed	US	13/535422		US-2012-0268184-A1
3577	DIRECT FM/PM MODULATION	[redacted]	[redacted]	NP	MTR-Closed	US	12/757274	8594159	US-2011-0250856-A1
3578	RADIO COMMUNICATION DEVICES INFORMATION PROVIDERS METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE AND METHODS FOR CONTROLLING AN INFORMATION PROVIDER	[redacted]	[redacted]	CNT	MTR-Closed	US	13/966362	9148827	US-2013-0331107-A1
3579	RADIO COMMUNICATION DEVICES INFORMATION PROVIDERS METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE AND METHODS FOR CONTROLLING AN INFORMATION PROVIDER	[redacted]	[redacted]	CIP	MTR-Closed	US	13/193707	8712353	US-2012-0028655-A1
3580	UNTERDRÜCKUNG VON NIEDERFREQUENTEM RAUSCHEN VON EINEM PHASENDETEKTOR IN EINER PHASENSTEUERSCHLEIFE	[redacted]	[redacted]	DIV	MTR-Closed	DE	1.02011E+12	1.02011E+11	1.02011E+11
3581	APPARATUS AND METHOD FOR ANTENNA DIVERSITY RECEPTION	[redacted]	[redacted]	NP	MTR-Closed	US	12/708351	8824526	US-2011-0201297-A1
3582	SATELLITE-BASED POSITION DETERMINATION	[redacted]	[redacted]	NP	APP-Closed	CN	2.0111E+12		102385059
3583	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3584	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	NP	MTR-Closed	CN	2.0111E+12	ZL201110249545	102340870
3585	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	NP	MTR-Closed	JP	2011-151278	5553800	2012-050070
3586	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	DIV	APP-Closed	JP	2013-209838		2014-053916
3587	COMMUNICATION TERMINAL METHOD FOR RECEIVING DATA AND COMPUTER PROGRAM PRODUCT	[redacted]	[redacted]	NP	APP-Closed	KR	10-2011-0068117		10-2012-0005415
3588	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3589	TRANSCEIVER WITH INTERFERER CONTROL	[redacted]	[redacted]	NP	APP-Closed	US	12/855788		US-2012-0040628-A1
3590	METHOD FOR PROCESSING DATA	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02011E+12	1.02011E+11	1.02011E+11
3591	HF-RÜCKKOPPLUNGSEMPFÄNGERANORDNUNG HF-SENDEANORDNUNG UND HF-SENDE-EMPFANGSANORDNUNG	[redacted]	[redacted]	NP	APP-Closed	DE	1.0201E+12		1.0201E+11
3592	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3593	PA Bias Optimization for Modulation Schemes with Variable Bandwidth	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2011/002750		WO2012/035438
3594	MOBILE COMMUNICATION SYSTEM RELAY STATION BASE STATION MOBILE COMMUNICATION NETWORK AND NETWORK COMPONENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	11758432		2612530
3595	MOBILE COMMUNICATION SYSTEM RELAY STATION BASE STATION MOBILE COMMUNICATION NETWORK AND NETWORK COMPONENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2011/064978		WO2012/028641
3596	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3597	RECEIVER WITH WIDE DYNAMIC RANGE AND LOW POWER CONSUMPTION	[redacted]	[redacted]	NP	MTR-Closed	CN	201210041460X	ZL201210041460X	102684605
3598	ITERATIVE DECODER	[redacted]	[redacted]	NP	MTR-Closed	US	13/022775	8910029	US-2012-0208081-A1
3599	ITERATIVE DECODER	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2012-0013312	10-1323444	10-2012-0096856
3600	DIGITAL-TO-ANALOG CONVERSION ARRANGEMENT WITH POWER RANGE DEPENDENT D/A CONVERTER SELECTION	[redacted]	[redacted]	NP	MTR-Closed	TW	101115801	I517594	201319693

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3601	[redacted]								
3602	GEMEINSAME ADAPTIVE ARBEITSPUNKTEINSTELLUNG UND DIGITALE VORVERZERRUNG FUER LEISTUNGSVERSTAERKER			NP	APP-Closed	DE	1.02012E+12		1.02012E+11
3603	[redacted]								
3604	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			NP	APP-Closed	US	13/606464		US-2012-0182120-A1
3605	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK			CNT	APP-Closed	US	14/816498		US-2015-0334678-A1
3606	MOBILE COMMUNICATION TERMINAL AND METHOD FOR REGISTERING A MOBILE COMMUNICATION TERMINAL IN A COMMUNICATION NETWORK			PCT	APP-Closed	WO	PCT/EP2012/053631		WO2012/119943
3607	SMART STRATEGIES FOR PERFORMING CALLS AND RECEIVING PAGINGS WITH PHONES WITH DUAL-SIM-DUAL-TRANSPORT (DSDT)			PCT	APP-Closed	WO	PCT/EP2012/002030		WO2012/156056
3608	METHOD OF CHANNEL ESTIMATION AND A CHANNEL ESTIMATOR			NP	MTR-Closed	US	13/685619	8605604	US-2012-0263245-A1
3609	[redacted]								
3610									
3611									
3612									
3613	RECEIVER OF A MOBILE COMMUNICATION DEVICE			EPT	MTR-Closed	EP	12720211		2710741
3614	RECEIVER OF A MOBILE COMMUNICATION DEVICE			PCT	APP-Closed	WO	PCT/EP2012/058891		WO2012/156353
3615	MIXER CELL MODULATOR AND METHOD			NP	APP-Closed	JP	2012-109684		2012-244627
3616	MIXER CELL MODULATOR AND METHOD			NP	MTR-Closed	TW	101116120	I488427	201301748
3617	RECEIVER CIRCUIT AND METHOD			NP	MTR-Closed	US	13/169311	8891591	US-2012-0328059-A1
3618	RECEIVER CIRCUIT AND METHOD			PCT	MTR-Closed	DE	1.12012E+12		1.12012E+11
3619	RECEIVER CIRCUIT AND METHOD			PCT	APP-Closed	WO	PCT/EP2012/061985		WO2013/000619
3620	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	AT	141757633	2793494	2793494
3621	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			DIV	APP-Closed	CN	2.01511E+12		105451218
3622	FUNKVORRICHTUNGEN REGULIERUNGSSERVER UND VERIFIKATIONSSERVER			NP	MTR-Closed	DE	1.02012E+12		1.02012E+11
3623	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	DE	111791885	8.02011E+12	2477426
3624	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	DE	141757633	8.02011E+12	2793494
3625	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	EE	141757633	2793494	2793494
3626	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	EP	111791885	2477426	2477426
3627	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	EP	141757633	2793494	2793494
3628	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	ES	111791885	2477426	2477426
3629	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	ES	141757633	2793494	2793494
3630	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	FR	111791885	2477426	2477426
3631	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	FR	141757633	2793494	2793494
3632	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	GB	111791885	2477426	2477426
3633	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	GB	141757633	2793494	2793494
3634	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	GR	141757633	2793494	2793494
3635	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			FPD	APP-Closed	HK	1610665137		1218680
3636	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	HU	141757633	2793494	2793494
3637	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	IT	111791885	5.02013E+14	2477426
3638	RADIO DEVICES REGULATION SERVERS AND VERIFICATION SERVERS			EPA	MTR-Closed	NL	111791885	2477426	2477426
3639	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	NL	141757633	2793494	2793494
3640	CONFIGURABLE RADIO DEVICE AND VERIFICATION SERVER FOR TRANSMITTING CERTIFICATION INFORMATION			EPD	MTR-Closed	SK	141757633	2793494	2793494
3641	[redacted]								
3642	SPLIT VARACTOR ARRAY WITH IMPROVED MATCHING AND VARACTOR SWITCHING SCHEME			PCT	APP-Closed	WO	PCT/EP2012/071276		WO2013/060854
3643	ENHANCED PHASE DISCRIMINATOR FOR FAST PHASE ALIGNMENT			NP	MTR-Closed	US	13/173377	8611487	US-2013-0003907-A1
3644	ENHANCED PHASE DISCRIMINATOR FOR FAST PHASE ALIGNMENT			PCT	MTR-Closed	DE	1.12012E+12	1.12012E+11	1.12012E+11
3645	ENHANCED PHASE DISCRIMINATOR FOR FAST PHASE ALIGNMENT			PCT	APP-Closed	WO	PCT/EP2012/062317		WO2013/000891
3646	RADIO RECEIVER APPARATUS OF A CELLULAR RADIO NETWORK			NP	MTR-Closed	US	13/405989	8781424	US-2013-0225106-A1
3647	ADAPTIVE COMPENSATION OF NONLINEAR FREQUENCY DISTORTION IN POLAR TRANSMITTERS BASED ON A LEAST SQUARES ESTIMATION			NP	MTR-Closed	CN	2.01211E+12	ZL201210064565.9	103166906
3648	ADAPTIVE KOMPENSATION VON NICHT LINEARER FREQUENZVERZERRUNG BEI POLARSENDERN BASIEREND AUF EINER ABSCHÄTZUNG NACH DER METHODE DER KLEINSTEN QUADRATE			NP	MTR-Closed	DE	1.02012E+12	1.02012E+11	1.02012E+11
3649	VERFAHREN ZUM VERARBEITEN EINES DATENSIGNALS UND EMPFANGERSCHALTUNG			NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
3650	[redacted]								
3651									
3652									
3653									
3654									
3655	MEDIA PROFILES AND MEDIA PROFILE COMMANDS FOR HANDLING OF MULTIMEDIA SERVICE CONFIGURATION			PCT	APP-Closed	WO	PCT/IB2012/002293		WO2014/041392
3656	[redacted]								

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3657	COMMUNICATIONS DEVICE A MEMORY CIRCUIT A METHOD FOR INDICATING A DELETION OF INFORMATION INDICATING A PRESENCE OF A RADIO CELL AND A METHOD FOR DELETING INFORMATION INDICATING A PRESENCE OF A RADIO CELL	[redacted]	[redacted]	NP	APP-Closed	US	13/762454		US-2014-0228020-A1
3658	A COMMUNICATIONS DEVICE A MEMORY CIRCUIT AND A METHOD FOR PURGING STORED LOCATION INFORMATION OF CLOSE SUBSCRIBER GROUP CELLS IDENTIFIED AS OUTDATED	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/050415		WO2014/121975
3659	REDUNDANT DELAY DIGITAL-TO-TIME CONVERTER	[redacted]	[redacted]	NP	MTR-Closed	US	13/836480	9130588	US-2014-0266837-A1
3660	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3661	SCHEDULING TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/026599		WO2013/138019
3662	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	EPT	MTR-Closed	HU	13782418	2842385	2842385
3663	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	MTR-Closed	ES	P201330610		2525399
3664	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	MTR-Closed	ES	P201430072		2528306
3665	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3666	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/038293		WO2013/163478
3667	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	NP	MTR-Closed	SE	1350504-5		1350504
3668	INTER-RAT COVERAGE DETERMINATION FOR ENERGY SAVING MANAGEMENT	[redacted]	[redacted]	DIV	MTR-Closed	SE	1450056-5		1450056
3669	DEVICE ORIENTATION CAPABILITY EXCHANGE SIGNALING AND SERVER ADAPTATION OF MULTIMEDIA CONTENT IN RESPONSE TO DEVICE ORIENTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047284		WO2014/022018
3670	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-178012		2017-022754
3671	METHODS FOR QUALITY-AWARE ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047277		WO2014/022017
3672	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3673	METHOD AND APPARATUS FOR FEEDBACK IN 3D MIMO WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047323		WO2014/018205
3674	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-209552		2017-022784
3675	IDENTIFYING COVERAGE HOLES USING INTER-RAT HANDOVER MEASUREMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048361		WO2014/018217
3676	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3677	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]	[redacted]	NP	MTR-Closed	US	13/709828	8982860	US-2014-0036769-A1
3678	COMMUNICATION PATH SWITCHING FOR MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047262		WO2014/022016
3679	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7037061		10-2015-0027170
3680	COVERAGE ADJUSTMENT IN E-UTRA NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048360		WO2014/022038
3681	APPARATUS AND METHOD FOR CELL INFORMATION INDICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0138E+12	ZL201380017290.4	104412660
3682	APPARATUS AND METHOD FOR CELL INFORMATION INDICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	137815379	2842367	2842367
3683	APPARATUS AND METHOD FOR CELL INFORMATION INDICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-550684	5901834	2015-513879
3684	APPARATUS AND METHOD FOR CELL INFORMATION INDICATION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/037981		WO2013/163289
3685	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3686	SYSTEMS AND METHODS FOR ENHANCED USER EQUIPMENT ASSISTANCE INFORMATION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040675		WO2013/170230
3687	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	APP-Closed	BE	2013/0522	1021973	
3688	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103582066
3689	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	138251087		2880915
3690	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-523088		2015-526985
3691	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	NP	MTR-Closed	NL	2011259	2011259	2011259
3692	ESTABLISHING APPLICATION-BASED ROUTING POLICIES IN MULTI-MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044530		WO2014/021989
3693	HARQ-ACK HANDLING FOR UNINTENDED DL SUBFRAMES IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	[redacted]	[redacted]	NP	MTR-Closed	BE	2013/0463	1023157	
3694	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3695	HARQ-ACK HANDLING FOR UNINTENDED DL SUBFRAMES IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	[redacted]	[redacted]	NP	MTR-Closed	NL	2011073	2011073	2011073
3696	HARQ-ACK HANDLING FOR UNINTENDED DOWNLINK SUB-FRAMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/045539		WO2014/007960
3697	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	PCT	MTR-Closed	EA	2874475		2874475
3698	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3699	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-188838		2016-184950
3700	APPARATUS AND METHOD TO EFFICIENTLY SEND DEVICE TRIGGER MESSAGES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/046564		WO2014/007990
3701	DEVICE-TO-DEVICE ON-DEMAND ADVERTISEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/046868		WO2014/022015
3702	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3703	HIGH EFFICIENCY DISTRIBUTED DEVICE-TO-DEVICE (D2D) CHANNEL ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044543		WO2014/021990
3704	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	US	13/790630	9100160	US-2014-0036795-A1
3705	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	BE	2013/0521	1021419	
3706	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	CNT	APP-Closed	US	14/816282		US-2016-0192408-A1
3707	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	ES	P201331208	2481285	2481285
3708	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	FI	20135807		20135807

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3709	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	FR	1357687		2994357
3710	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7036954		10-2015-0016612
3711	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	NL	2011257	2011257	2011257
3712	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044445		WO2014/021987
3713	APPARATUS AND METHOD FOR SMALL DATA TRANSMISSION IN 3GPP-LTE SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	TW	102127609	I503032	201410054
3714	REFERENCE SIGNAL CONFIGURATION FOR COORDINATED MULTIPOINT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044384		WO2014/021986
3715	APPARATUS FOR IMPROVED MOBILITY IN A WIRELESS HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	13776103?		2837246
3716	APPARATUS FOR IMPROVED MOBILITY IN A WIRELESS HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036445		WO2013/155489
3717	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	13/719372	8811258	US-2014-0003320-A1
3718	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013245670	2013245670	2013245670
3719	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	AU	2015213409	2015213409	2015213409
3720	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	AU	2016201151	2016201151	2016201151
3721	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3722	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2868417	2868417	2868417
3723	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	137752093		2837213
3724	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-506682		2015-511092
3725	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/036468		WO2013/155473
3726	ENHANCED LOCAL COMMUNICATIONS IN MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014138924	2580668	
3727	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	NP	APP-Closed	US	13/728658		US-2014-0036794-A1
3728	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	CNT	APP-Closed	US	14/587779		US-2015-0189591-A1
3729	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	138258124		2880783
3730	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7010901		10-2017-0046811
3731	USER EQUIPMENT ASSISTANCE INFORMATION SIGNALING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053261		WO2014/021979
3732	USER EQUIPMENT AND METHOD FOR SIGNALING USER EQUIPMENT ASSISTANCE INFORMATION IN A WIRELESS NETWORK	[redacted]	[redacted]	DIV	APP-Closed	TW	106118884		201735714
3733	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3734	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	NP	MTR-Closed	ES	P201330679		2463240
3735	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-182003		2017-022780
3736	SELECTIVE JOINDER OF MACHINE-TYPE COMMUNICATION USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060007		WO2013/169822
3737	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	APP-Closed	US	15/633511		US-2017-0294998-A1
3738	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-511778		2015-521426
3739	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	APP-Closed	JP	2015-156792		2016-007027
3740	SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040634		WO2013/170202
3741	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR COMMUNICATING	[redacted]	[redacted]	NP	MTR-Closed	US	13/779874	9173209	US-2014-0241260-A1
3742	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR A DIRECT COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2013/060708		WO2014/131543
3743	COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/051558		WO2014/139709
3744	COMMUNICATION TERMINAL DEVICE COMMUNICATION DEVICE COMMUNICATION NETWORK SERVER AND METHOD FOR CONTROLLING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/050415		WO2014/131536
3745	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041223		WO2013/180957
3746	DYNAMIC SELECTION OF SPECTRUM ACCESS IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/010722		WO2014/110161
3747	RF MITIGATION VIA DUTY CYCLE CONTROL	[redacted]	[redacted]	NP	APP-Closed	US	13/757927		US-2014-0219401-A1
3748	ENHANCED NODE B USER EQUIPMENT AND METHODS FOR DISCONTINUOUS RECEPTION IN INTER-ENB CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044139		WO2014/021984
3749	TECHNIQUES FOR SENDING OR RECEIVING CHANNEL STATE INFORMATION REPORTS ASSOCIATED WITH A COORDINATED MULTI-POINT SCHEME	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047363		WO2014/022021
3750	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2014-7037068		10-2015-0027172
3751	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048019		WO2014/022032
3752	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	NP	APP-Closed	SE	1350935-1		1350935
3753	NETWORK ASSISTANCE FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/065656		WO2014/021998
3754	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3755	USER EQUIPMENT EVOLVED NODE B AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-515294	5925960	2015-518361
3756	USER EQUIPMENT EVOLVED NODE B AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047940		WO2014/008087

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3757	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01338E+12	ZL201380001388956	104247301
3758	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	EP	137605689	2826164	2826164
3759	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	AT	137605689	2826164	2826164
3760	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	BE	137605689	2826164	2826164
3761	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	CH	137605689	2826164	2826164
3762	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	DE	137605689	6.02013E+12	2826164
3763	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	EE	137605689	2826164	2826164
3764	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	ES	137605689	2826164	2826164
3765	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	FR	137605689	2826164	2826164
3766	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	GB	137605689	2826164	2826164
3767	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	GR	137605689	2826164	2826164
3768	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	HU	137605689	2826164	2826164
3769	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	IE	137605689	2826164	2826164
3770	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	NL	137605689	2826164	2826164
3771	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	EPT	MTR-Closed	SK	137605689	2826164	2826164
3772	DOWN-SAMPLING OF CELL-SPECIFIC REFERENCE SIGNALS (CRS) FOR A NEW CARRIER TYPE (NCT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/032888		WO2013/138818
3773	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	APP-Closed	US	13/766898		US-2014-0022988-A1
3774	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3775	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103561880
3776	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	138195383		2875588
3777	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	APP-Closed	ES	P201331103	2477040	2477040
3778	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	FI	20135776	124643	20135776
3779	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	FR	1357811	2993746	2993746
3780	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	IT	MI2013A001202	1419041	MI2013A001202
3781	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-238047		2017-085596
3782	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	MTR-Closed	NL	2011185	2011185	2011185
3783	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/044756		WO2014/014578
3784	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	NP	APP-Closed	SE	1350906-2		1350906
3785	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	DIV	MTR-Closed	SE	1650746-9		1650746
3786	USER EQUIPMENT AND METHOD FOR ANTENNA PORT QUASI CO-LOCATION SIGNALING IN COORDINATED MULTI-POINT OPERATIONS	[redacted]	[redacted]	DIV	MTR-Closed	TW	104139672	I583159	201611558
3787	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041239		WO2013/180958
3788	MEASUREMENT OF NODES IN COORDINATED MULTIPOINT (CoMP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041301		WO2013/180963
3789	COMMUNICATION CONTROLLER AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	EPT	MTR-Closed	EP	14706482.7		2974484
3790	COMMUNICATION CONTROLLER AND METHOD FOR TRANSMITTING DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/052623		WO2014/139720
3791	EPHEMERAL IDENTITY FOR DEVICE AND SERVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/043393		WO2014/092768
3792	SPREAD SPECTRUM ADAPTIVE POWER CONTROL SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	US	08/368710	5574747	
3793	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	AT	959439811	801856	801856
3794	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	BE	959439811	801856	801856
3795	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3796	SPREAD SPECTRUM ADAPTIVE POWER CONTROL SYSTEM AND METHOD	[redacted]	[redacted]	CNT	PAT-Closed	US	08/743379	5835527	
3797	VARIABLE BANDWIDTH SPREAD SPECTRUM DEVICE	[redacted]	[redacted]	DIV	PAT-Closed	US	08/889281	5920590	
3798	SPREAD SPECTRUM MULTIPATH PROCESSOR SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	US	08/891236	5985538	
3799	SPREAD SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	CNT	PAT-Closed	US	09/277400	6175586	
3800	SETTING A TRANSMISSION POWER LEVEL FOR A MOBILE UNIT	[redacted]	[redacted]	CNT	PAT-Closed	US	14/030202	8824523	US-2014-0023117-A1
3801	RECEIVING A SPREAD SPECTRUM DATA SIGNAL USING DETERMINED WEIGHTS	[redacted]	[redacted]	CNT	PAT-Closed	US	09/716864	6330272	
3802	MULTIPATH PROCESSOR	[redacted]	[redacted]	CNT	PAT-Closed	US	10/027893	6611548	US-2002-0085624-A1
3803	SPREAD SPECTRUM ADAPTIVE POWER CONTROL	[redacted]	[redacted]	CNT	PAT-Closed	US	10/071964	6671308	US-2002-0122465-A1
3804	SPREAD SPECTRUM ADAPTIVE POWER CONTROL USING A BASE STATION	[redacted]	[redacted]	CNT	PAT-Closed	US	10/071976	6721350	US-2002-0122512-A1
3805	SETTING A TRANSMISSION POWER LEVEL FOR A MOBILE UNIT	[redacted]	[redacted]	CNT	MTR-Closed	US	10/819625	7697643	US-2004-0190602-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3806	SETTING A TRANSMISSION POWER LEVEL FOR A MOBILE UNIT	[redacted]	[redacted]	CNT	PAT-Closed	US	12/712857	7961822	US-2010-0150207-A1
3807	SETTING A TRANSMISSION POWER LEVEL FOR A MOBILE UNIT	[redacted]	[redacted]	CNT	PAT-Closed	US	13/150371	8340228	US-2011-0228816-A1
3808	SETTING A TRANSMISSION POWER LEVEL FOR A MOBILE UNIT	[redacted]	[redacted]	CNT	PAT-Closed	US	13/683431	8553816	US-2013-0142217-A1
3809	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	CN	959439811	801856	801856
3810	SPREAD SPECTRUM MULTIPATH PROCESSOR SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	US	08/423513	5673286	
3811	VARIABLE BANDWIDTH SPREAD SPECTURM SYSTEM DEVICE AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	US	08/423519	5568907	
3812	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3813	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	DE	959439811	69527372	801856
3814	SPREAD SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	DE	1148392	69534149	1041727
3815	SPREAD SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	DE	1149400	69534253	1041728
3816	METHOD FOR POWER CONTROL IN A SPREAD SPECTRUM SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	DE	1148418	69534304	1043844
3817	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	DK	1148392	1041727	1041727
3818	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	DK	1149400	1041728	1041728
3819	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	DK	1148418	1043844	1043844
3820	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	EP	959439811	801856	801856
3821	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	EP	1148392	1041727	1041727
3822	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	EP	1149400	1041728	1041728
3823	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	EP	1148418	1043844	1043844
3824	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	EP	90106905		1569360
3825	METHOD AND APPARATUS FOR TRANSMISSION POWER CONTROL OF A CDMA SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	EP	101829455	2264911	2264911
3826	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3827	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3828	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3829	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3830	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3831	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3832	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3833	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3834	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3835	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3836	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3837	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3838	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3839	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	ES	959439811	801856	801856
3840	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	ES	1148392	1041727	1041727
3841	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	ES	1149400	1041728	1041728
3842	METHOD FOR POWER CONTROL IN A SPREAD-SPECTRUM SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	ES	1148418	1043844	1043844
3843	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Closed	FI	972241	116256	972241
3844	VARIABLE BANDWITH SPREAD SPECTRUM DEVICE AND METHOD	[redacted]	[redacted]	PCD	PAT-Closed	FI	20065634		20040634
3845	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Closed	FI	20050533	124521	
3846	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Closed	FI	20125652	125863	20125652
3847	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	FR	959439811	801856	801856
3848	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	FR	1148392	1041727	1041727
3849	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	FR	1149400	1041728	1041728
3850	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	FR	1148418	1043844	1043844
3851	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	GB	959439811	801856	801856
3852	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	GB	1148392	1041727	1041727
3853	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	GB	1149400	1041728	1041728
3854	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	GB	1148418	1043844	1043844
3855	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	GR	959439811	801856	801856
3856	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	FPD	PAT-Closed	HK	1102888	1031954	1031954
3857	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	FPD	PAT-Closed	HK	1102889	1031955	1031955
3858	METHOD FOR POWER CONTROL IN SPREAD SPECTRUM SYSTEM	[redacted]	[redacted]	FPD	PAT-Closed	HK	1102894	1032492	1032492
3859	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	FPD	PAT-Closed	HK	61019779		1079359
3860	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	ID	P00199600016	IDP000010238	11659
3861	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	ID	P00200400042	IDP000017178	39405
3862	SPREAD-SPECTRUM MULTIPATH PROCESSOR SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	ID	P00200400043	IDP000014971	39406
3863	SPREAD-SPECTRUM MULTIPATH PROCESSOR SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	ID	P00200400044	IDP000017188	39014

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3864	SPREAD-SPECTRUM ADAPTIVE POWER CONTROL SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	ID	P00200400065	IDP000017187	39015
3865	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	ID	P00200400066	IDP000014903	39016
3866	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	IE	1148400	1041728	1041728
3867	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	IE	1149418	1043844	1043844
3868	MULTIPATH PROCESSOR FOR TRACKING A SPREAD-SPECTRUM SIGNAL AND ITS USE	[redacted]	[redacted]	NP	PAT-Closed	IL	116444	116444	116444
3869	VARIABLE-BANDWIDTH SPREAD-SPECTRUM DEVICE	[redacted]	[redacted]	DIV	PAT-Closed	IL	128633	128633	128633
3870	ADAPTIVE POWER CONTROL FROM A SPREAD SPECTRUM COMMUNICATION SYSTEM AND METHOD	[redacted]	[redacted]	DIV	PAT-Closed	IL	128634	128634	128634
3871	SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL FOR SPREAD-SPECTRUM TRANSMITTER	[redacted]	[redacted]	DIV	PAT-Closed	IL	149967	149967	149967
3872	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	IN	2434/DEL/1995	232008	
3873	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3874									
3875	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	IT	95943981I	801856	801856
3876	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	IT	1149392	1041727	1041727
3877	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	IT	1149400	1041728	1041728
3878	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	IT	1149418	1043844	1043844
3879	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCT	PAT-Closed	JP	1996-521132	3736807	10-512113
3880	ADAPTIVE POWER CONTROL SYSTEM FOR TRANSMITTER FOR SPREAD SPECTRUM COMMUNICATION	[redacted]	[redacted]	PCD	PAT-Closed	JP	2002-325396	3875180	2003-198462
3881	MULTIPATH PROCESSOR FOR A PLURALITY OF GROUPS OF SPREAD SPECTRUM SIGNALS	[redacted]	[redacted]	PCD	PAT-Closed	JP	2002-325434	3693332	2003-224493
3882	MULTIPATH PROCESSOR FOR TRACKING A PLURALITY OF SPREAD- SPECTRUM SIGNAL GROUPS	[redacted]	[redacted]	PCD	PAT-Closed	JP	2002-325451	3693333	2003-188766
3883	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCD	PAT-Closed	JP	2005-136193	3938186	2005-341562
3884	MOBILE UNIT ADAPTED TO ADAPTIVE TRANSMISSION POWER CONTROL SYSTEM FOR MOBILE STATION FOR SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Closed	JP	2006-148165	4058080	2006-311584
3885	MOBILE UNIT ADAPTED TO ADAPTIVE TRANSMISSION POWER CONTROL SYSTEM FOR MOBILE STATION FOR SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Closed	JP	2007-228368	4648234	2008-029027
3886	MOBILE UNIT ADAPTED TO ADAPTIVE TRANSMISSION POWER CONTROL SYSTEM FOR MOBILE STATION FOR SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Closed	JP	2009-082890	4747205	2009-153199
3887	MOBILE UNIT ADAPTED TO ADAPTIVE TRANSMISSION POWER CONTROL SYSTEM FOR MOBILE STATION FOR SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	PAT-Closed	JP	2009-167933	4772893	2009-239967
3888	SPREAD SPECTRUM ADAPTIVE POWER CONTROL SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	MY	PI9600097	MY-115391-A	
3889	SPREAD SPECTRUM ADAPTIVE POWER CONTROL SYSTEM METHOD	[redacted]	[redacted]	DIV	MTR-Closed	MY	PI20004563	MY-122591-A	
3890	SPREAD SPECTRUM MULTIPATH PROCESSOR SYSTEM AND METHOD	[redacted]	[redacted]	DIV	MTR-Closed	MY	PI20004564	MY-122599-A	
3891	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	95943981I	801856	801856
3892	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1995/016805		WO1996/021285
3893	SPREAD SPECTRUM ADAPTIVE POWER CONTROL SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	PH	1-1996-052079	1-1996-052079	
3894	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	PT	95943981I	801856	801856
3895	SPREAD-SPECTRUM SYSTEM AND METHOD FOR ADAPTIVE POWER CONTROL IN A CELLULAR COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	PAT-Closed	SE	95943981I	801856	801856
3896	SPREAD-SPECTRUM APPARATUS AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	SE	1149392	1041727	1041727
3897	SPREAD-SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	ETD	PAT-Closed	SE	1149400	1041728	1041728
3898	COMMUNICATION STATION METHOD AND NETWORK FOR POWER CONTROL IN SPREAD-SPECTRUM SYSTEMS	[redacted]	[redacted]	ETD	PAT-Closed	SE	1149418	1043844	1043844
3899	SPREAD SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	TW	84113988	079369	
3900	SPREAD SPECTRUM SYSTEM AND METHOD	[redacted]	[redacted]	NP	PAT-Closed	ZA	96/10969	96/10969	
3901	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	CNT	APP-Closed	US	15/050974		US-2017-0141808-A1
3902	PREVENTING DROPPED CALLS THROUGH BEHAVIOR PREDICTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048677		WO2014/098986
3903	CELLULAR NETWORK SCANNING CONTROL BASED ON AMBIENT IDENTIFIABLE WIRELESS SIGNAL SOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048649		WO2014/105186
3904	LOCATION-BASED SELECTION OF WIRELESS PERIPHERAL DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047801		WO2014/105179
3905	PUSH-PULL AMPLIFIER WITH QUIESCENT CURRENT ADJUSTER	[redacted]	[redacted]	NP	MTR-Closed	US	13/690518	9172044	US-2014-0155126-A1
3906	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
3907	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE N&D ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Closed	US	08/992759	6151332	
3908	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	AT	816100B1	1983692	1983692
3909	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	BE	816100B1	1983692	1983692
3910	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATIONS USING BUFFER URGENCY FACTOR	[redacted]	[redacted]	CNT	PAT-Closed	US	09/088527	6388999	
3911	DYNAMIC BANDWIDTH ALLOCATION IN CDMA SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CA	2333729	2333729	
3912	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATIONS USING BUFFER URGENCY FACTOR	[redacted]	[redacted]	DIV	MTR-Closed	CA	2581871	2581871	2581871
3913	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	CH	816100B1	1983692	1983692

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3914	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING BUFFER URGENCY FACTOR	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2003-7013590	10-0571440	10-2003-0071368
3915	DYNAMIC BANDWIDTH ALLOCATION IN CDMA SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1999/011625		WO1999/063713
3916	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	CIP	PAT-Closed	US	09/773252	6542481	US-2001-0021197-A1
3917	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	AT	101807972	2259649	2259649
3918	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	BE	101807972	2259649	2259649
3919	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0207255-6	PI0207255-6	
3920	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	CNT	APP-Closed	US	10/345810		US-2003-0152095-A1
3921	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATIONS USING BUFFER URGENCY FACTOR	[redacted]	[redacted]	CNT	PAT-Closed	US	10/767018	8259687	US-2004-0179497-A1
3922	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATIONS USING BUFFER URGENCY FACTOR	[redacted]	[redacted]	CNT	PAT-Closed	US	13/554802	8908654	US-2013-0182683-A1
3923	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3924	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3925	DYNAMIC FRAME SIZE ADJUSTMENT AND SELECTIVE REJECT ON A MULTI-LINK CHANNEL TO IMPROVE EFFECTIVE THROUGHPUT AND BIT ERROR RATE	[redacted]	[redacted]	DIV	APP-Closed	US	10/767328		US-2004-0190696-A1
3926	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	CH	101807972	2259649	2259649
3927	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	CN	28043979	ZL028043979	1489842
3928	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	APP-Closed	CN	2.00816+12		101511128
3929	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	EPT	MTR-Closed	DE	27208172	602447895	1356618
3930	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	DE	101807972	602481864	2259649
3931	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	DK	101807972	2259649	2259649
3932	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	EPT	MTR-Closed	ES	27208172	1356618	1356618
3933	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	ES	101807972	2259649	2259649
3934	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	FI	101807972	2259649	2259649
3935	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	FR	101807972	2259649	2259649
3936	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	FR	101807972	2259649	2259649
3937	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	EPT	MTR-Closed	GB	27208172	1356618	1356618
3938	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	GB	101807972	2259649	2259649
3939	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	GR	101807972	2259649	2259649
3940	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	FPR	MTR-Closed	HK	41038126	1062238	1062238
3941	A CODE DIVISION MULTIPLE ACCESS USER DEVICE	[redacted]	[redacted]	FPD	APP-Closed	HK	101017699		1135831
3942	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00202301497	IDP000028878	
3943	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	MTR-Closed	ID	W00200802785	IDP000032579	501449
3944	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	IE	101807972	2259649	2259649
3945	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	IT	101807972	5.02018E+14	2259649
3946	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	JP	2002-561412	4317154	2004-529529
3947	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	MTR-Closed	JP	2007-096292	5167495	2007-251966
3948	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	APP-Closed	JP	2009-187993		2010-011472
3949	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCD	MTR-Closed	JP	2010-116275	5113217	2010-259077
3950	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2003-7009467	10-0646639	10-2003-0071823
3951	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	NL	101807972	2259649	2259649
3952	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	NO	20033238	334887	20033238
3953	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/011512		WO2002/061993
3954	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	PT	101807972	2259649	2259649
3955	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	SE	101807972	2259649	2259649

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3956	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	PCT	MTR-Closed	SG	200304174-6	98654	98654
3957	DYNAMIC BANDWIDTH ALLOCATION FOR MULTIPLE ACCESS COMMUNICATION USING SESSION QUEUES	[redacted]	[redacted]	ETD	MTR-Closed	TR	101807972	2259649	2259649
3958	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Closed	DE	989327945	69839806	990354
3959	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	DE	816110081	698435285	1983692
3960	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DK	816110081	1983692	1983692
3961	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	EP	816110081	1983692	1983692
3962	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	EP	101811719		2278282
3963	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Closed	ES	989327945	990354	990354
3964	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	ES	816110081	1983692	1983692
3965	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FI	816110081	1983692	1983692
3966	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Closed	FR	989327945	990354	990354
3967	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	FR	816110081	1983692	1983692
3968	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Closed	GB	989327945	990354	990354
3969	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	GB	816110081	1983692	1983692
3970	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	GR	816110081	1983692	1983692
3971	PROTOCOL CONVERSION AND BAND WITH REDUCTION TECHNIQUEPROVIDING MULTIPLE NBD ISDN BASIC RATE INTERFACE LINKS OVERA WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	PAT-Closed	HK	91017122	1126053	1126053
3972	PROTOCOL CONVERSION AND DATA BANDWIDTH REDUCTION TECHNIQUE TO PROVIDE MULTIPLE NBD ISDN BASIC RATE DATA LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	APP-Closed	HK	111874747		1153600
3973	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	816110081	1983692	1983692
3974	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	PAT-Closed	IT	989327945	990354	990354
3975	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IT	816110081	1983692	1983692
3976	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	PAT-Closed	NL	816110081	1983692	1983692
3977	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1998/012875		WO1998/059447
3978	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	PT	816110081	1983692	1983692
3979	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE NBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	RE	PAT-Closed	US	12/788718	RE43367	
3980	PROTOCOL CONVERSION AND BANDWIDTH REDUCTION TECHNIQUE PROVIDING MULTIPLE nBD ISDN BASIC RATE INTERFACE LINKS OVER A WIRELESS CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SE	816110081	1983692	1983692
3981	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
3982	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	NP	PAT-Closed	US	08/992760	6081538	
3983	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	AT	989327846	990385	990385
3984	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	AU	1998082591	727495	1998082591

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
3985	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	BE	989327846	990365	990365
3986	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	APP-Closed	BR	PI9810196-0		PI9810196-0
3987	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	09/596425	6526281	
3988	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	APP-Closed	US	10/345791		US-2003-0129990-A1
3989	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	10/764196	7583971	US-2004-0157617-A1
3990	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	APP-Closed	US	10/763788		US-2004-0160910-A1
3991	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	10/776424	7477906	US-2004-0160915-A1
3992	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	10/776558	7580715	US-2004-0160982-A1
3993	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	12/498899	8260310	US-2009-0268705-A1
3994	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	13/571164	8858538	US-2012-0307804-A1
3995	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	CNT	PAT-Closed	US	13/892663	9408216	US-2013-0250919-A1
3996	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	CA	2295436	2295436	
3997	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	PAT-Closed	CA	2700343	2700343	2700343
3998	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	CH	989327846	990365	990365
3999	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	CN	98807422	ZL98807422	1264522
4000	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	DE	989327846	69810623	990365
4001	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	DK	989327846	990365	990365
4002	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	ES	989327846	990365	990365
4003	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	FI	989327846	990365	990365
4004	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	FR	989327846	990365	990365
4005	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	GB	989327846	990365	990365
4006	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	FPR	PAT-Closed	HK	1071618	1029482	1029482
4007	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	IE	989327846	990365	990365
4008	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	JP	2011-504822	4988077	2002-510447
4009	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	PAT-Closed	JP	2006-245608	4988278	2007-043728
4010	CODE DIVISION MULTIPLE ACCESS (CDMA) USER DEVICE	[redacted]	[redacted]	PCD	PAT-Closed	JP	2009-102453	4988787	2009-165171
4011	CODE DIVISION MULTIPLE ACCESS (CDMA) USER DEVICE	[redacted]	[redacted]	PCD	MTR-Closed	JP	2009-265087	4994437	2010-045855
4012	CODE DIVISION MULTIPLE ACCESS (CDMA) USER DEVICE	[redacted]	[redacted]	PCD	MTR-Closed	JP	2012-026522	5356659	2012-090355
4013	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-1999-7012065	10-0755807	10-2001-0034035
4014	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7003336	10-0937914	10-2007-0046111
4015	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7003338	10-0937912	10-2007-0033028
4016	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	PAT-Closed	KR	10-2009-7003120	10-1053553	10-2009-0029846
4017	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2010-7010335	10-1236158	10-2010-0018052
4018	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2010-7016865	10-1227986	10-2010-0101680
4019	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2011-7011628	10-1318011	10-2011-0083589
4020	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCD	PAT-Closed	KR	10-2012-7017850	10-1393868	10-2012-0096371
4021	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	MX	PA/a/1999/011541	216834	
4022	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	NO	19996273	318289	19996273
4023	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1998/012740		WO1998/059523
4024	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	PCT	PAT-Closed	RU	2000101315	2214685	
4025	DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK	[redacted]	[redacted]	EPT	PAT-Closed	SE	989327846	990365	990365
4026	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4027	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Closed	US	09/088413	6222832	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4028	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	PAT-Closed	US	09/515487	6452913	
4029	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	AT	999371446	1084587	1084587
4030	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	MTR-Closed	AU	1999052030	750879	1999052030
4031	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	AU	2002301756	2002301756	2002301756
4032	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	BE	999371446	1084587	1084587
4033	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	09/730876	6707804	US-2001-0002904-A1
4034	SYSTEM AND METHOD FOR MAINTAINING WIRELESS CHANNELS OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	09/997621	6678268	US-2002-0054581-A1
4035	SYSTEM AND METHOD FOR MAINTAINING WIRELESS CHANNELS OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	10/755876	6940842	US-2004-0213176-A1
4036	SYSTEM AND METHOD FOR MAINTAINING WIRELESS CHANNELS OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	11/183520	7746830	US-2005-0249168-A1
4037	SYSTEM AND METHOD FOR MAINTAINING WIRELESS CHANNELS OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	12/758445	8139546	US-2010-0208708-A1
4038	SYSTEM AND METHOD FOR MAINTAINING WIRELESS CHANNELS OVER A REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	13/423859	8792458	US-2013-0201962-A1
4039	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	10/761130	6928064	US-2004-0208147-A1
4040	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	11/183677	7480280	US-2005-0259624-A1
4041	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	MTR-Closed	CA	2333654	2333654	2333654
4042	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	CA	2636713	2636713	2636713
4043	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	CA	2834031	2834031	2834031
4044	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	CH	999371446	1084587	1084587
4045	FAST ACQUISITION OF TRAFFIC CHANNELS FOR HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	MTR-Closed	CN	98806939	ZL98806939	1304625
4046	TRAFFIC CHANNELS FOR FAST ACQUISITION OF A HIGHLY VARIABLE DATA TRANSMISSION RATE	[redacted]	[redacted]	PCD	APP-Closed	CN	2.00618+12		1882184
4047	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	DE	999371446	69929059	1084587
4048	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	DE	50774272	69944357	1631113
4049	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	DE	101821361	2262177	2262177
4050	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	DK	999371446	1084587	1084587
4051	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	ES	999371446	1084587	1084587
4052	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	ES	50774272	1631113	1631113
4053	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	ES	101821361	2262177	2262177
4054	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	FI	999371446	1084587	1084587
4055	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	FI	999371446	1084587	1084587
4056	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	FI	50774272	1631113	1631113
4057	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	FI	101821361	2262177	2262177
4058	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	FR	999371446	1084587	1084587
4059	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	FR	50774272	1631113	1631113
4060	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	FR	101821361	2262177	2262177
4061	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	GB	999371446	1084587	1084587
4062	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	GB	50774272	1631113	1631113
4063	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	GB	101821361	2262177	2262177
4064	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	GR	999371446	1084587	1084587
4065	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	FPR	MTR-Closed	HK	11046566	1034402	1034402
4066	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	FPD	APP-Closed	HK	71061472		1101470
4067	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	IE	999371446	1084587	1084587
4068	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	IE	50774272	1631113	1631113
4069	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	IE	101821361	2262177	2262177

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4070	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	IT	999371446	5.02E+14	1084587
4071	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	MTR-Closed	JP	2000-552788	4803159	2002-517941
4072	FAST ACQUISITION OF TRAFFIC CHANNELS FOR HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	APP-Closed	JP	2007-264917		2008-079327
4073	FAST ACQUISITION OF TRAFFIC CHANNEL FOR OBTAINING HIGHLY VARIABLE DATA TRANSFER RATE	[redacted]	[redacted]	PCD	PAT-Closed	JP	2009-157910	5242511	2009-268140
4074	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE REVERSE LINK OF A CDMA WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	JP	2013-002916	5639201	2013-081254
4075	FAST ACQUISITION OF TRAFFIC CHANNELS FOR HIGHLY VARIABLE DATA TRANSFER RATE	[redacted]	[redacted]	PCD	PAT-Closed	JP	2010-132801	5236692	2010-259083
4076	FAST ACQUISITION OF TRAFFIC CHANNELS FOR HIGHLY VARIABLE DATA TRANSFER RATE	[redacted]	[redacted]	PCD	MTR-Closed	JP	2010-158165	4887444	2010-283848
4077	FAST ACQUISITION OF TRAFFIC CHANNELS FOR HIGHLY VARIABLE DATA RATE TRANSMISSION RATE	[redacted]	[redacted]	PCD	PAT-Closed	JP	2011-177740	5524147	2012-019528
4078	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	PAT-Closed	JP	2012-141285	5524281	2012-213217
4079	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	PAT-Closed	KR	10-2000-7013589	10-0826859	10-2001-0071367
4080	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2006-7025503	10-0795769	10-2007-0001287
4081	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2011-7019070	10-1226456	10-2011-0107855
4082	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2012-7004787	10-1298847	10-2012-0034249
4083	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2012-7018956	10-1298815	10-2012-0098857
4084	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7008223	10-0885989	10-2007-0046979
4085	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7010771	10-0877391	10-2007-0087279
4086	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7022128	10-0902621	10-2007-0102759
4087	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7005207		10-2008-0025214
4088	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7028713		10-2009-0006214
4089	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2009-7023757	10-1119751	10-2009-0132642
4090	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2011-7002201		10-2011-0023908
4091	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2011-7010308	10-1171821	10-2011-0058913
4092	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	PAT-Closed	MX	PA/a/2000/011869	219555	
4093	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	NL	999371446	1084587	1084587
4094	METHOD FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	NL	50774272	1631113	1631113
4095	METHOD AND DEVICES FOR FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	ETD	MTR-Closed	NL	101821361	2262177	2262177
4096	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	MTR-Closed	NO	20006076	323653	20006076
4097	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	NO	20070706	326627	20070706
4098	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCD	MTR-Closed	NO	20083653	336327	20083653
4099	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1999/011607		WO1999/063682
4100	FAST ACQUISITION OF TRAFFIC CHANNELS FOR A HIGHLY VARIABLE DATA RATE	[redacted]	[redacted]	EPT	MTR-Closed	SE	999371446	1084587	1084587
4101	VARIABLE RATE FORWARD ERROR CORRECTION FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	NP	PAT-Closed	US	09/263358	7593380	
4102	VARIABLE RATE CODING FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Closed	US	12/563466	7826437	US-2010-0031272-A1
4103	VARIABLE RATE CODING FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Closed	US	12/917608	8068474	US-2011-0047444-A1
4104	VARIABLE RATE CODING FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Closed	US	13/284070	8437329	US-2012-0039328-A1
4105	VARIABLE RATE CODING FOR ENABLING HIGH PERFORMANCE COMMUNICATION	[redacted]	[redacted]	CNT	PAT-Closed	US	15/054045	9954638	US-2016-0173220-A1
4106	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCT	APP-Closed	JP	2000-603155		2002-538711
4107	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	APP-Closed	JP	2011-133097		2011-176894
4108	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCD	APP-Closed	JP	2012-268281		2013-048495
4109	FORWARD ERROR CORRECTION ON MULTIPLEXED CDMA CHANNELS ENABLING HIGH PERFORMANCE CODING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/034580		WO2001/052831
4110	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	AT	917736207	2141850	2141850
4111	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	AT	101839991	2293481	2293481
4112	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	BE	917736207	2141850	2141850
4113	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES	[redacted]	[redacted]	CNT	PAT-Closed	US	11/633970	7502424	US-2007-0076815-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4114	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	CNT	APP-Closed	US	13/470922		US-2013-0269176-A1
4115	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES	[redacted]	[redacted]	CNT	MTR-Closed	US	13/453575	8964909	US-2012-0250798-A1
4116	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES	[redacted]	[redacted]	CNT	PAT-Closed	US	14/593536	9369235	US-2015-0222392-A1
4117	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4118	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	CH	91736207	2141850	2141850
4119	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCT	MTR-Closed	CN	8185522	ZL008185522	1425228
4120	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00918E+12	ZL200910128S106	101534169
4121	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00918E+12	ZL200910128S115	101567756
4122	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	DE	9920430	60043588	1234401
4123	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	DE	91736207	600498864	2141850
4124	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	DE	101839991	600498850	2293481
4125	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	DK	9920430	1234401	1234401
4126	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	ES	9920430	1234401	1234401
4127	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	ES	91736207	2141850	2141850
4128	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	ES	101839991	2293481	2293481
4129	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	ES	9920430	1234401	1234401
4130	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	ES	91736207	2141850	2141850
4131	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	ES	101839991	2293481	2293481
4132	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	FI	9920430	1234401	1234401
4133	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	FR	9920430	1234401	1234401
4134	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	FR	91736207	2141850	2141850
4135	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	FR	101839991	2293481	2293481
4136	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	GB	9920430	1234401	1234401
4137	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	GB	91736207	2141850	2141850
4138	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	GB	101839991	2293481	2293481
4139	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	GR	91736207	2141850	2141850
4140	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	GR	101839991	2293481	2293481
4141	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	FPR	MTR-Closed	HK	31092433	1058866	1058866
4142	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	FPD	MTR-Closed	HK	1010027746	1134726	1134726
4143	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	FPD	MTR-Closed	HK	1010041365	1136720	1136720
4144	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	IE	9920430	1234401	1234401
4145	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	IE	91736207	2141850	2141850
4146	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	IT	9920430	5.02931E+14	1234401
4147	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCT	APP-Closed	JP	2001-540967		2003-524321
4148	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCD	MTR-Closed	JP	2011-177739	5318922	2012-044696
4149	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2002-7006517	10-0773793	10-2002-0050299
4150	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	NL	9920430	1234401	1234401
4151	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	NL	91736207	2141850	2141850
4152	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	ETD	MTR-Closed	NL	101839991	2293481	2293481
4153	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/041201		WO2001/039423
4154	VARIABLE RATE CODING FOR FORWARD LINK	[redacted]	[redacted]	EPT	MTR-Closed	SE	9920430	1234401	1234401
4155	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES IN CDMA SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	11/264847	7145964	US-2006-0062326-A1
4156	MAXIMIZING DATA RATE BY ADJUSTING CODES AND CODE RATES IN CDMA SYSTEM	[redacted]	[redacted]	EPA	MTR-Closed	EP	22586299		1229679
4157	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	10/459035	6728292	US-2003-0198279-A1
4158	USER EQUIPMENT USING COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	MTR-Closed	US	11/136238	7079969	US-2005-0213635-A1
4159	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	8049645	ZL008049645	1343400
4160	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00418E+12	ZL200410007861S	1529423
4161	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	9214198	600036884	1163737
4162	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DK	9214198	1163737	1163737
4163	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	9214198	1163737	1163737
4164	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	20260857	1313233	1313233
4165	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	9214198	1163737	1163737
4166	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FI	9214198	1163737	1163737
4167	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	9214198	1163737	1163737
4168	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	9214198	1163737	1163737
4169	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	20260857	1313233	1313233
4170	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	MTR-Closed	HK	21031900	1041575	1041575
4171	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	31074836	1059344	1059344
4172	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IE	9214198	1163737	1163737
4173	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4174	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4175	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IT	9214198	5.02004E+14	1163737
4176	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2000-607350	3821886	
4177	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	9214198	1163737	1163737
4178	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	NO	20014538	323601	20014538
4179	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/007476		WO2000/057574
4180	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SE	9214198	1163737	1163737
4181	COMBINED CLOSED-LOOP/OPEN-LOOP POWER CONTROL PROCESS FOR TIME DIVISION DUPLEXING	[redacted]	[redacted]	NP	MTR-Closed	TW	89105248	490948	
4182	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4183	MAINTENANCE OF CHANNEL USAGE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	PAT-Closed	US	09/288228	6965778	
4184	MAINTENANCE OF CHANNEL USAGE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	11/235389	8045990	US-2006-0030331-A1
4185	MAINTENANCE OF CHANNEL USAGE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	PAT-Closed	US	14/559655	9232536	US-2015-0085832-A1
4186	MAINTENANCE OF CHANNEL USAGE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	APP-Closed	US	14/855169		US-2016-0007376-A1
4187	SYSTEM AND METHOD FOR EFFICIENT DATA TRANSMISSION ON WIRELESS ACCESS TO A NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/008783		WO2000/062449
4188	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	AU	2000041744	2000041744	
4189	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0009130-8		PI0009130-8
4190	WEIGHTED OPEN LOOP POWER CONTROL TRANSMITTER	[redacted]	[redacted]	CNT	MTR-Closed	US	12/464164	7961773	US-2009-0221239-A1
4191	WEIGHTED OPEN LOOP POWER CONTROL TRANSMITTER	[redacted]	[redacted]	CNT	MTR-Closed	US	13/158068	8767878	US-2011-0248259-A1
4192	WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	CNT	MTR-Closed	US	11/130591	7120169	US-2005-0220176-A1
4193	WEIGHTED OPEN LOOP POWER CONTROL SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	11/544275	7289550	US-2007-0025423-A1
4194	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CA	2367353	2367353	2367353
4195	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CA	2491179	2491179	2491179
4196	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CA	2700656	2700656	2700656
4197	WEIGHTED OPEN LOOP POWER CONTROL IN TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	85S2417	ZL00885S2417	1344445
4198	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00415E+12	ZL200410043102S	1545217
4199	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00615E+12	ZL200610095893S	1956344
4200	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00615E+12	ZL200610095894S	1953346
4201	METHOD FOR WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00615E+12	ZL200610095895S	1956345
4202	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	9214206	60004800	1163738
4203	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	30138119	60023193	1349294
4204	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	51048502	60041011	1578030
4205	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	81676918	60047134	2015466
4206	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DK	9214206	1163738	1163738
4207	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DK	30138119	1349294	1349294
4208	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DK	51048502	1578030	1578030
4209	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4210	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4211	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	286/2001	22233	
4212	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	9214206	1163738	1163738
4213	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	30138119	1349294	1349294
4214	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	51048502	1578030	1578030
4215	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	81676918	2015466	2015466
4216	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	9214206	1163738	1163738
4217	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	30138119	1349294	1349294

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4218	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	51048502	1578030	1578030
4219	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FI	9214206	1163738	1163738
4220	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FI	30138119	1349294	1349294
4221	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FI	51048502	1578030	1578030
4222	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FI	81676918	2015466	2015466
4223	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	9214206	1163738	1163738
4224	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	30138119	1349294	1349294
4225	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	51048502	1578030	1578030
4226	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	81676918	2015466	2015466
4227	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	9214206	1163738	1163738
4228	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	30138119	1349294	1349294
4229	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	51048502	1578030	1578030
4230	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	81676918	2015466	2015466
4231	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	MTR-Closed	HK	21031919	1041576	1041576
4232	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	41023739	1061476	1061476
4233	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	61034477	1085857	1085857
4234	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	71113318	1109252	1109252
4235	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	71115414	1108346	1108346
4236	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00200101923	IDP000018622	30325
4237	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	ID	W00200603674	IDP000040401	470315
4238	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	51048502	1578030	1578030
4239	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	81676918	2015466	2015466
4240	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	IL	144913	144913	144913
4241	TIME DIVISION DUPLEX/CODE DIVISION MULTIPLE ACCESS (TDD/CDMA) USER EQUIPMENT	[redacted]	[redacted]	PCD	MTR-Closed	IL	176873	176873	176873
4242	USER EQUIPMENT UTILIZING WEIGHTED OPEN LOOP POWER CONTROL	[redacted]	[redacted]	PCT	MTR-Closed	IN	739/DEL/2001	210178	
4243	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IT	9214206	1163738	1163738
4244	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IT	30138119	1349294	1349294
4245	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IT	51048502	1578030	1578030
4246	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2000-607351	3621887	2002-540673
4247	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7011973	10-0401219	10-2001-0108362
4248	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	MX	PA/a/2006/001577	255173	
4249	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	MX	MX/a/2008/003225	275409	
4250	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20001119	MY-129851-A	
4251	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	9214206	1163738	1163738
4252	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	30138119	1349294	1349294
4253	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	51048502	1578030	1578030
4254	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	81676918	2015466	2015466
4255	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	NO	20014572	323998	20014572
4256	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	NO	20073727	325301	
4257	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/017477		WO2001/057575
4258	PERFORMANCE OF WEIGHTED OPEN LOOP SCHEME FOR UPLINK POWER CONTROL IN TDD MODE	[redacted]	[redacted]	NP	MTR-Closed	PH	1-2000-00659	1-2010-00659	1-2000-00659
4259	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SE	9214206	1163738	1163738

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4260	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SE	30138119	1349294	1349294
4261	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SE	51048502	1578030	1578030
4262	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	SG	200105203-4	83258	83258
4263	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202121-0	109964	109964
4264	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202122-8	112830	112830
4265	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202123-6	109965	109965
4266	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202124-4	108842	108842
4267	WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	89105247	459452	
4268	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4269	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	09/533423	6603797	
4270	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	AU	37681/00	756316	37681/00
4271	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	AU	2002301879	301879	2002301879
4272	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0009233-9		PI0009233-9
4273	OUTER LOOP/WEIGHTED OPEN-LOOP POWER CONTROL APPARATUS FOR A BASE STATION	[redacted]	[redacted]	CNT	MTR-Closed	US	10/080759	6606343	US-2002-0075939-A1
4274	USER EQUIPMENT EMPLOYING A TIME DIVISION DUPLEX TECHNIQUE	[redacted]	[redacted]	CNT	MTR-Closed	US	10/080836	6803798	US-2002-0080747-A1
4275	USER EQUIPMENT EMPLOYING A TIME DIVISION DUPLEX TECHNIQUE	[redacted]	[redacted]	CNT	MTR-Closed	US	10/435796	7120188	US-2004-0022230-A1
4276	USER EQUIPMENT FOR CONTROLLING TRANSMISSION POWER LEVELS	[redacted]	[redacted]	CNT	APP-Closed	US	11/545865		US-2007-0030882-A1
4277	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CA	2367363	2367363	2367363
4278	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CA	2494725	2494725	2494725
4279	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	3052409	ZL00805240 9	1344444
4280	OUTER LOOP/WEIGHTED OPEN LOOP CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	200410059280X	ZL200410059280X	1551528
4281	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00618E+12	ZL200610095731 4	1878017
4282	COMBINED CLOSED LOOP/OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	200610095730X	ZL200610095730X	1010940 17
4283	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00618E+12	ZL200610095732 9	1010940 18
4284	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	9166900	60106963	1163735
4285	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	30190045	60032236	1367740
4286	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	51037109	60040624	1578029
4287	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	81665663	60046939	2009809
4288	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DK	9166900	1163735	1163735
4289	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DK	30190045	1367740	1367740
4290	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DK	51037109	1578029	1578029
4291	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4292	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4293	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	EG	287/2001	22713	
4294	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	9166900	1163735	1163735
4295	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	30190045	1367740	1367740
4296	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	51037109	1578029	1578029
4297	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	81665663	2009809	2009809
4298	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	9166900	1163735	1163735
4299	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	30190045	1367740	1367740
4300	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	51037109	1578029	1578029
4301	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FI	9166900	1163735	1163735
4302	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FI	30190045	1367740	1367740

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4303	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	51037109	1578029	1578029
4304	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	9166000	1163735	1163735
4305	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	30190045	1367740	1367740
4306	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	51037109	1578029	1578029
4307	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	81685663	2009809	2009809
4308	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	9166000	1163735	1163735
4309	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	30190045	1367740	1367740
4310	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	51037109	1578029	1578029
4311	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	81685663	2009809	2009809
4312	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	MTR-Closed	HK	21833230	1042790	1042790
4313	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	41038807	1062505	1062505
4314	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	61034446	1085856	1085856
4315	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	81071184	1117284	1117284
4316	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	FPD	MTR-Closed	HK	81071120		1117283
4317	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00200101922	IDP000014894	30470
4318	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IE	9166000	1163735	1163735
4319	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	30190045	1367740	1367740
4320	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	51037109	1578029	1578029
4321	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	IN	IN/PCT/2001/00738/DEL	218041	
4322	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	IN	2672/DELNP/2006	256094	
4323	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IT	9166000	1163735	1163735
4324	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IT	30190045	1367740	1367740
4325	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IT	51037109	5.02031E+14	1578029
4326	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2000-607352	3621888	2002-540674
4327	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7011974	10-0401217	10-2001-0108363
4328	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	MX	PA/a/2001/009199	231571	
4329	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	51037109	1578029	1578029
4330	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	81685663	2009809	2009809
4331	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	NO	20014571	324439	20014571
4332	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/007556		WO2000/057576
4333	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	PH	1-2000-000658	1-2005-000658	1-2000-000658
4334	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	MTR-Closed	PH	1-2007-000058	1-2007-000058	1-2007-000058
4335	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SE	9166000	1163735	1163735
4336	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SE	30190045	1367740	1367740
4337	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SE	51037109	1578029	1578029
4338	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	SG	200105473-3	83431	83431
4339	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202255-6	108845	108845
4340	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202256-4	108846	108846
4341	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202257-2	115464	115464
4342	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200202258-0	115465	115465
4343	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	SG	200706366-2	157965	157965

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4346	OUTER LOOP/WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	89105245	I160771	
4345	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4346	MINIMAL MAINTENANCE LINK TO SUPPORT SYNCHRONIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/003939		WO2001/058044
4347	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4348	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/040814		WO2001/097418
4349	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	CA	2501453		2501453
4350	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0038E+12		1736044
4351	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	EPT	APP-Closed	EP	37569126		1552626
4352	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	FPR	APP-Closed	HK	61002992		1080638
4353	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	JP	2004-543431		2006-502661
4354	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCD	APP-Closed	JP	2007-278113		2008-113438
4355	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2005-7005993		10-2005-0083731
4356	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2007-7010615		10-2007-0082604
4357	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	MX	PA/a/2005/003699		PA/a/2005/003699
4358	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	MTR-Closed	NO	20052249		20052249
4359	RECEIVER FOR TIME DIVISION MULTIPLEX SYSTEM WITHOUT EXPLICIT TIME SLOT ASSIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/031674		WO2004/034618
4360	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4361	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4362	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4363	ALTERNATE CHANNEL FOR CARRYING SELECTED MESSAGE TYPES	[redacted]	[redacted]	CNT	MTR-Closed	US	13/572313	8687606	US-2012-0307809-A1
4364	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	NP	MTR-Closed	US	09/775305	7079523	US-2002-0181024-A1
4365	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	CNT	APP-Closed	US	11/486531		US-2006-0274711-A1
4366	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2437296	2437296	2437296
4367	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCT	MTR-Closed	CN	018077038	ZL018077038	1430824
4368	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	DE	19104462	601482891	1256192
4369	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	EP	19104462	1256192	1256192
4370	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4371	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	GB	19104462	1256192	1256192
4372	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	FPR	MTR-Closed	HK	31031491	1051607	1051607
4373	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	JP	2001-557189		2003-529979
4374	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	JP	2012-121265	5462316	
4375	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2002-7010163		10-2002-0088070
4376	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7013597	10-0866862	10-2007-0086288
4377	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7071169	10-0905988	10-2007-0078839
4378	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2008-0030029	10-0945772	10-2008-0045050
4379	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2008-0120814	10-0980342	10-2009-0008565
4380	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2009-0078264	10-0980343	10-2009-0110274
4381	MAINTENANCE LINK USING ACTIVE/STANDBY REQUEST CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/003927		WO2001/058043
4382	USE OF CORRELATION COMBINATION TO ACHIEVE CHANNEL DETECTION	[redacted]	[redacted]	CNT	APP-Closed	US	12/488798		US-2009-0257479-A1
4383	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4384	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	BR	PI0211031-8		PI0211031-8
4385	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	CNT	APP-Closed	US	11/129789		US-2005-0221848-A1
4386	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2451242	2451242	
4387	DEVICE AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	CN	2813440S		1518808
4388	APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN A WIRELESS COMMUNICATIONS SYSTEM	[redacted]	[redacted]	ETD	APP-Closed	EP	710295S2		1826933
4389	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	MTR-Closed	ES	27463066	1807586	1407586
4390	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	APP-Closed	HK	41071071		1064531
4391	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	ID	WO0200302517	IDP000018425	A0860
4392	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	IL	159390		159390
4393	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2005-7015362		10-2005-0098067
4394	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2007-7011733		10-2007-0065446
4395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4396	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	NO	20035741		20035741
4397	AN IMPROVED APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/011669		WO2003/001711

	A	B	C	D	E	F	G	H	I
2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4398	AN APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	DIV	APP-Closed	TW	94129567		200629783
4399	AN APPARATUS AND METHOD FOR PERFORMING INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	DIV	APP-Closed	TW	96102235		200746660
4400	[redacted]								
4401	SIGNALING FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Closed	US	13/418517	8885277	US-2012-0170484-A1
4402	SIGNALING FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Closed	US	14/691568	9307532	US-2015-0245352-A1
4403	SIGNALING FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	CNT	PAT-Closed	US	15/054039	9686790	US-2016-0183256-A1
4404	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4405	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4406	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4407	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-504694	4225892	2004-531148
4408	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	MTR-Closed	JP	2006-315038	4840250	2007-097209
4409	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCD	MTR-Closed	JP	2013-032334	5450853	2013-141288
4410	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2003-7016363	10-0665077	10-2004-0006037
4411	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4412	TRANSMITTAL OF HEARTBEAT SIGNAL AT A LOWER LEVEL THAN HEARTBEAT REQUEST	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/018878		WO2002/102095
4413	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4414	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4415	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4416	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	AT	111568465	2323279	2323279
4417	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	AT	111624029	2341639	2341639
4418	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	BE	111624029	2341639	2341639
4419	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0211016-4	PI0211016-4	PI0211016-4
4420	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	CNT	PAT-Closed	US	14/325756	9525923	US-2014-0321441-A1
4421	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	CA	2450670	2450670	
4422	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	CA	2670758	2670758	2670758
4423	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	CA	2882928		2882928
4424	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	CH	111624029	2341639	2341639
4425	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	CN	28148516	ZL028148516	1528095
4426	TRANSMITTAL OF HEARTBEAT SIGNAL TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00616E+12	ZL200610091261 4	1897751
4427	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	DE	111568465	602485002	2323279
4428	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	DE	111624029	602478278	2341639
4429	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	DE	111624094	602454972	2341640
4430	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	DK	111624029	2341639	2341639
4431	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4432	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	EPT	APP-Closed	EP	27535405		1398159
4433	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	EP	111568465	2323279	2323279
4434	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	EP	111624029	2341639	2341639
4435	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	EP	111624094	2341640	2341640
4436	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	ES	111568465	2323279	2323279
4437	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	ES	111624029	2341639	2341639
4438	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	FI	111624029	2341639	2341639
4439	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	FR	111568465	2323279	2323279
4440	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	FR	111624029	2341639	2341639
4441	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	GB	111568465	2323279	2323279
4442	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	GB	111624029	2341639	2341639
4443	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	GB	111624094	2341640	2341640
4444	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	GR	111568465	2323279	2323279
4445	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	GR	111624029	2341639	2341639
4446	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	FPR	APP-Closed	HK	61032925		1061137
4447	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	FPD	MTR-Closed	HK	1211011600	1159879	1159879
4448	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4449	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	ID	WO0200302467	ID0000029166	38735
4450	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	IE	111624029	2341639	2341639
4451	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	IT	111624029	2341639	2341639
4452	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-504897	4227011	2005-504460
4453	WIRELESS UNIT FOR MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	JP	2007-270641	5112811	2008-048454
4454	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	JP	2012-000481	5254471	2012-100325
4455	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	JP	2012-165134	5452676	2013-009380
4456	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2003-7016362	10-0596909	10-2004-0006036
4457	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4458	MOBILE UNIT AND METHOD IMPLEMENTED IN A MOBILE UNIT	[redacted]	[redacted]	ETD	MTR-Closed	NL	111568465	2323279	2323279
4459	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	NL	111624029	2341639	2341639
4460	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	NO	20035557	331904	20035557
4461	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/018877		WO2002/102098
4462	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	PT	111624029	2341639	2341639
4463	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	SE	111624029	2341639	2341639

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4464	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCT	MTR-Closed	SG	200307435-8	101651	101651
4465	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	SG	200508045-2	146438	146438
4466	MULTI-DETECTION OF HEARTBEAT TO REDUCE ERROR PROBABILITY	[redacted]	[redacted]	PCD	MTR-Closed	SG	201004134-1	154580	154580
4467	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4468	FIELD UNIT AND METHOD IMPLEMENTED IN A FIELD UNIT	[redacted]	[redacted]	ETD	MTR-Closed	TR	111634029	2341639	2341639
4469	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4470		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4471	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	APP-Closed	CA	2463904		2463904
4472	USER EQUIPMENT FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	APP-Closed	CN	28206436		1572101
4473	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	APP-Closed	CN	2.0081E+12		101340382
4474	TIME DIVISION DUPLEXING OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT	[redacted]	[redacted]	UM	PAT-Closed	CN	22873546	ZL022873546	
4475	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4476	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	UMT	PAT-Closed	DE	202211886	202211886	
4477	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	EPT	APP-Closed	EP	27738087		1436969
4478	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	FPR	APP-Closed	HK	51025852		1069270
4479	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	MTR-Closed	JP	2003-537205	3923941	2005-507190
4480	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	APP-Closed	JP	2006-234307		2006-345576
4481	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7015616	10-0690425	10-2005-0037413
4482	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0080963		10-2005-0090359
4483	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2007-0105567		10-2007-0116756
4484	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2008-0029646		10-2008-0045089
4485	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2005-7016217	10-0894287	10-2005-0091113
4486	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7024080	10-0894286	10-2007-0116124
4487	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7009302		10-2008-0049830
4488	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	UM	PAT-Closed	KR	20-2002-0031242	20-0302060	
4489	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	MTR-Closed	MX	PA/a/2004/003684	248573	PA/a/2004/003684
4490	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4491	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	APP-Closed	NO	20041914		20041914
4492	SYSTEM FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/033439		WO2003/034599
4493	USER EQUIPMENT FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	NP	MTR-Closed	TW	91124186	I231664	
4494	USER EQUIPMENT FOR IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION IN THE DOWNLINK	[redacted]	[redacted]	DIV	APP-Closed	TW	96102391		200803291
4495	A METHOD FOR MANAGING TRANSMISSION OF DATA DURING DISCONTINUOUS TRANSMISSION IN A TIME DIVISION DUPLEX COMMUNICATION MODE AND AN APPARATUS FOR SAVING POWER DURING DISCONTINUOUS TRANSMISSION	[redacted]	[redacted]	DIV	MTR-Closed	TW	98152143	I433487	200950387
4496	TIME DIVISION DUPLEX OR TIME DIVISION SYNCHRONOUS CODE DIVISION MULTIPLE ACCESS USER EQUIPMENT HAVING IMPROVED POWER SAVINGS DURING FULL DTX MODE OF OPERATION	[redacted]	[redacted]	UM	PAT-Closed	TW	91216768	I220403	
4497	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4498	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	NP	MTR-Closed	AR	P020103951	36862	36862
4499	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	CNT	APP-Closed	US	15/426283		US-2017-0310430-A1
4500	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Closed	CA	2464104		2464104
4501	USER EQUIPMENT METHOD CELLULAR COMMUNICATION DEVICE NODE-B AND COMMUNICATIONS METHOD	[redacted]	[redacted]	PCD	APP-Closed	CN	2.0081E+12		101466121
4502	HIGH SPEED DOWN-STREAM CHAIN CIRCUIT PUBLIC CHANNEL SUBSCRIBER EQUIPMENT ABLE TO SUPPORT MIXED AUTOMATIC REPEATED REQUEST	[redacted]	[redacted]	UM	PAT-Closed	CN	22819840	ZL022819840	
4503	NODE-B DEVICE	[redacted]	[redacted]	UM	PAT-Closed	CN	22819959	ZL022819959	
4504	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	UM	PAT-Closed	DE	202160742	202160742	

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4505	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	UM	PAT-Closed	DE	202160769	202160769	
4506	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	EPT	APP-Closed	EP	28021384		1437021
4507	USER EQUIPMENT METHOD CELLULAR COMMUNICATION DEVICE NODE-B AND COMMUNICATIONS METHODS	[redacted]	[redacted]	FPD	APP-Closed	HK	91120184		1132127
4508	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Closed	IL	161148		161148
4509	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-539213		2005-507207
4510	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCD	APP-Closed	JP	2005-277910		2006-074810
4511	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCD	APP-Closed	JP	2007-003746		2007-151157
4512	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTINGH-ARQ	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2003-0087467		10-2004-0084250
4513	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTINGH-ARQ	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0087322		10-2005-0107309
4514	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTING H-ARQ	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0075952		10-2005-0097885
4515	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTING H-ARQ	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2007-0105092		10-2007-0115817
4516	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTING H-ARQ	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2007-0117148		10-2008-0004415
4517	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTING H-ARQ	[redacted]	[redacted]	UM	PAT-Closed	KR	20-2002-0031099	20-0300215	
4518	HIGH SPEED DOWNLINK SHARED CHANNEL NODE-B SUPPORTINGH-ARQ	[redacted]	[redacted]	UM	PAT-Closed	KR	20-2002-0031100	20-0300216	
4519	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4520	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	NP	APP-Closed	MY	PI20023902		PI20023902
4521	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Closed	NO	20042059		20042059
4522	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/032771		WO2003/036844
4523	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	DIV	APP-Closed	TW	94136243		200637237
4524	MAC ARCHITECTURE IN WIRELESS COMMUNICATION SYSTEMS SUPPORTING H-ARQ	[redacted]	[redacted]	UM	PAT-Closed	TW	91216678	I224372	
4525	HIGH SPEED DOWNLINK SHARED CHANNEL USER EQUIPMENT SUPPORTING H-ARQ	[redacted]	[redacted]	UM	PAT-Closed	TW	91216679	M280064	
4526	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4527	USER EQUIPMENT ACTION POST HIGH SPEED DOWNLINK SHARED CHANNEL SERVING CELL CHANGE OF HIGH SPEED DOWNLINK PACKET ACCESS	[redacted]	[redacted]	NP	MTR-Closed	AR	P030101179	39619	39619
4528	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0308959-2	PI0308959-2	PI0308959-2
4529	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	MTR-Closed	BR	122015026581-9		122015026581-9
4530	USER SET FOR HS-DSCH COMMON CHANNEL AREA CHANGING	[redacted]	[redacted]	UM	PAT-Closed	CN	32512120	ZL032512120	
4531	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	USR	PAT-Closed	DE	203055306	203055306	
4532	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	EPT	MTR-Closed	ES	37215126	1493288	1493288
4533	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	MTR-Closed	ES	151954591	3002971	3002971
4534	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	MTR-Closed	GE	AP20068492	P20063990	AP20068492
4535	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	MTR-Closed	GE	AP20080925S	P20064600	AP20080925S
4536	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	MTR-Closed	GR	151954591	3002971	3002971
4537	USER EQUIPMENT ACTION POST HIGH SPEED DOWNLINK SHARED CHANNEL SERVING CELL CHANGE OF HIGH SPEED DOWNLINK PACKET ACCESS	[redacted]	[redacted]	STP	PAT-Closed	HK	31524221	1055211	
4538	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	MTR-Closed	HU	151954591	3002971	3002971
4539	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	MTR-Closed	ID	WO02004402446	IDP000021351	A1573
4540	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4541	SYSTEM FOR EFFICIENTLY RECOVERING DATA BUFFERED IN NODE B AFTER CHANGING COMMON CHANNEL CELL OF HIGH-SPEED DOWNLINK ON SERVICE SIDE	[redacted]	[redacted]	PCD	MTR-Closed	JP	2007-271637	4819389	2008-048456
4542	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	MTR-Closed	JP	2009-187639	4819445	2009-261037
4543	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2005-7017385	10-0976837	10-2005-0098974
4544	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2004-0048171	10-0630854	10-2004-0068057
4545	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0077822		10-2005-0091965
4546	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINKSHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	USR	PAT-Closed	KR	20-2003-0010431	20-0319549	
4547	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20031268	MY-136836-A	PI20031268
4548	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	MY	PI20071122	MY-136857-A	PI20071122

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4548	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	MY	PI20084397	MY-143067-A	PI20084397
4550	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/015037		WO2003/087978
4551	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCT	MTR-Closed	SG	200405685-9	106948	106948
4552	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	PCD	MTR-Closed	SG	200606902-8	165989	165989
4553	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	ETD	MTR-Closed	SK	1519954591	3002971	3002971
4554	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	NP	MTR-Closed	TW	92107742	I228037	200306126
4555	A METHOD AND APPARATUS FOR FACILITATING HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	TW	93127613	I321931	200417184
4556	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVICING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	TW	95109494	I347762	200708148
4557	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	TW	99107016	I430676	201101877
4558	SYSTEM FOR EFFICIENT RECOVERY OF NODE B BUFFERED DATA FOLLOWING SERVING HIGH SPEED DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	DIV	MTR-Closed	TW	100131162	I460051	201244392
4559	USER EQUIPMENT WHICH FACILITATES HIGH SPEED-DOWNLINK SHARED CHANNEL CELL CHANGE	[redacted]	[redacted]	UM	PAT-Closed	TW	92205327	570425	
4560	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4561	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	NP	APP-Closed	AR	P030101645		39543
4562	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	DE	37288875	60312669	1522160
4563	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	EP	37288875	1522160	1522160
4564	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	ES	37288875	1522160	1522160
4565	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	FI	37288875	1522160	1522160
4566	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	FR	37288875	1522160	1522160
4567	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	GB	37288875	1522160	1522160
4568	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	FPR	MTR-Closed	HK	51090013	1077429	1077429
4569	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	IE	37288875	1522160	1522160
4570	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	IT	37288875	1522160	1522160
4571	METHOD AND APPARATUS FOR REDUCING UPLINK AND DOWNLINK TRANSMISSION ERRORS IN A THIRD GENERATION CELLULAR SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20031754	MY-136282-A	PI20031754
4572	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/015100		WO2003/096583
4573	METHOD AND APPARATUS FOR REDUCING TRANSMISSION-LINK ERRORS	[redacted]	[redacted]	EPT	MTR-Closed	SE	37288875	1522160	1522160
4574	METHOD AND APPARATUS FOR REDUCING UPLINK AND DOWNLINK TRANSMISSION ERRORS IN A THIRD GENERATION CELLULAR SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	92112754	I262659	200400698
4575	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4576	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4577	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCT	APP-Closed	CA	2486371		2486371
4578	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	FPR	APP-Closed	HK	51057214		1076939
4579	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7018193		10-2008-0080218
4580	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4581									
4582									
4583	MOBILE UNIT HAVING INTERNET PROTOCOL FUNCTIONALITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/011518		WO2003/101001
4584	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4585	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	NP	MTR-Closed	US	10/447881	7039408	US-2004-0002265-A1
4586	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	NP	MTR-Closed	AR	P030101970	39950	39950
4587	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	AT	37563095	1510085	1510085
4588	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4589	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCT	APP-Closed	CA	2488447		2488447
4590	PERSONAL LAN INTERCONNECTING DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	CN	38126858	ZL038126858	1659902
4591	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	UM	PAT-Closed	CN	32623577	ZL032623577	
4592	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	DE	37563095	603495397	1510085
4593	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANS)	[redacted]	[redacted]	UM	PAT-Closed	DE	203086546	203086546	
4594	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	EE	37563095	1510085	1510085
4595	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	EP	37563095	1510085	1510085
4596	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	ETD	MTR-Closed	EP	121817126		2528388
4597	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	ES	37563095	1510085	1510085
4598	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	FR	37563095	1510085	1510085
4599	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	GB	37563095	1510085	1510085
4600	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	GR	37563095	1510085	1510085
4601	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	FPR	APP-Closed	HK	51088534		1076970

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4602	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	STP	APP-Closed	HK	31039322	1061163	1061163
4603	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	HU	37563095	1510085	1510085
4604	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCT	MTR-Closed	JP	2004-509751	4078634	2005-528831
4605	METHOD FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCD	MTR-Closed	JP	2006-006279	4373402	2006-187017
4606	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2004-7019594		10-2005-0007578
4607	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2004-0080857	10-0833230	10-2004-0101954
4608	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0077846		10-2005-0090351
4609	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2005-7015598	10-0950005	10-2005-0090473
4610	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7013113		10-2008-0066841
4611	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2009-7010143	10-1086618	10-2009-0050461
4612	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	UM	PAT-Closed	KR	20-2003-0017346	20-0330764	
4613	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	NP	APP-Closed	MY	PI20032037		PI20032037
4614	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	DIV	APP-Closed	MY	PI20071194		PI20071194
4615	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	NL	37563095	1510085	1510085
4616	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCT	MTR-Closed	NO	20045284	336865	20045284
4617	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/017134		WO2003/102732
4618	METHOD AND APPARATUS FOR FACILITATING HANDOFF DECISIONS IN PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	EPT	MTR-Closed	SK	37563095	1510085	1510085
4619	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	NP	MTR-Closed	TW	92114947	I241803	200401542
4620	METHODS FOR FACILITATING HANDOVER DECISIONS AND FOR SELECTING ONE OF A PLURALITY NETWORKS	[redacted]	[redacted]	DIV	MTR-Closed	TW	93104169	I312625	200507522
4621	METHOD AND APPARATUS FOR USE IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	DIV	MTR-Closed	TW	95119771	I326540	200715761
4622	METHOD AND APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	DIV	MTR-Closed	TW	98121467	I420856	201018139
4623	APPARATUS FOR INTERCONNECTION OF PERSONAL AREA NETWORKS (PANs)	[redacted]	[redacted]	UM	MTR-Closed	TW	92210130	588895	
4624	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4625	FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	NP	MTR-Closed	US	10/334490	7093180	US-2004-0098734-A1
4626	FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	CNT	MTR-Closed	US	12/335167	7831886	US-2009-0094503-A1
4627	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	APP-Closed	CA	2490802		2490802
4628	FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	MTR-Closed	CN	38150700	ZL038150700	1666419
4629	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCD	APP-Closed	CN	200810169912X		101359915
4630	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	EPT	APP-Closed	EP	3761977.2		1518327
4631	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	FPR	APP-Closed	HK	51097846		1077937
4632	FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	MTR-Closed	JP	2004-517733	4143603	2005-531983
4633	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7021378	10-0768839	10-2005-0013261
4634	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2005-7018409	10-0900744	10-2005-0109812
4635	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2008-7014729		10-2008-0066091
4636	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	MTR-Closed	MX	PA/a/2004/012798	251858	PA/a/2004/012798
4637	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4638	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	APP-Closed	NO	20050468		20050468
4639	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/019643		WO2004/004133
4640	A FAST H-ARQ ACKNOWLEDGEMENT GENERATION METHOD USING A STOPPING RULE FOR TURBO DECODING	[redacted]	[redacted]	NP	MTR-Closed	TW	92116911	I297244	200405670
4641	APPARATUS EMPLOYED IN TURBO DECODING FOR REDUCING A NUMBER OF DECODING ITERATION AND METHOD THEREOF	[redacted]	[redacted]	DIV	MTR-Closed	TW	93104853	I297568	200511735
4642	A METHOD FOR IMPROVING HYBRID AUTOMATIC REPEAT REQUEST PERFORMANCE IN AN ITERATIVE TURBO DECODER AND A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	MTR-Closed	TW	95120456	I303520	200718036
4643	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4644	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	EPT	APP-Closed	EP	37797015		1550290
4645	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	FPR	APP-Closed	HK	51096881		1077954
4646	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/031981		WO2004/034688
4647	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	NP	MTR-Closed	TW	92128234	I242956	200412754
4648	INFORMATION STORAGE FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	DIV	APP-Closed	TW	93118953		200513083

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4649	INFORMATION STORAGE DEVICE AND METHOD FOR RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	DIV	APP-Closed	TW	95137451		200731733
4650	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4651	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	DE	37870862	60329017	1570584
4652	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	37870862	1570584	1570584
4653	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	ETD	APP-Closed	EP	90109133		2161959
4654	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	FR	37870862	1570584	1570584
4655	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	GB	37870862	1570584	1570584
4656	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20034514	MY-139337-A	PI20034514
4657	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	NL	37870862	1570584	1570584
4658	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/037527		WO2004/049588
4659	BIAS ERROR COMPENSATED INITIAL TRANSMISSIONPOWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	DIV	APP-Closed	TW	93117396		200511748
4660	BIAS ERROR COMPENSATED INITIAL TRANSMISSION POWER CONTROL FOR DATA SERVICES	[redacted]	[redacted]	DIV	APP-Closed	TW	95142886		200737780
4661	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4662	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	AT	71025084	1780920	1780920
4663	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4664	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	MTR-Closed	CN	200480003389X	ZL200480003389X	1745527
4665	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.00911E+12	ZL200910171050S	101656553
4666	METHOD AND APPARATUS FOR IDENTIFYING A CODE GROUP REPRESENTATIVE OF A PREDETERMINED NUMBER OF BASE STATIONS	[redacted]	[redacted]	PCD	MTR-Closed	CN	200910171051X	ZL200910171051X	101656554
4667	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	DE	71025084	6.02004E+12	1780920
4668	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	EE	71025084	1780920	1780920
4669	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Closed	EP	47085782		1595346
4670	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	EP	71025084	1780920	1780920
4671	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	APP-Closed	EP	81610438		1578662
4672	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	ES	71025084	1780920	1780920
4673	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	FR	71025084	1780920	1780920
4674	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	GB	71025084	1780920	1780920
4675	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	GR	71025084	1780920	1780920
4676	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	FPR	MTR-Closed	HK	61060438		1083950
4677	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	HU	71025084	1780920	1780920
4678	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2005-7017341	10-0950984	10-2005-0095661
4679	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4680	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4681	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7009048	10-0950905	10-2007-0059164
4682	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2007-7009049	10-0950905	10-2007-0059165
4683	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2009-7002408		10-2009-0032110
4684	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2009-7017244		10-2009-0108089
4685	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	MX	PA/a/2005/008320		PA/a/2005/008320
4686	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	NL	71025084	1780920	1780920
4687	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	NO	20053912		20053912
4688	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/003207		WO2004/073321
4689	INITIAL CELL SEARCH IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	ETD	MTR-Closed	SK	71025084	1780920	1780920
4690	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4691	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATON SYSTEM	[redacted]	[redacted]	NP	APP-Closed	AR	P040102450		45988
4692	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	APP-Closed	US	15/284938		US-2016-0366610-A1
4693	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4694	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00408E+12		1820436
4695	RADIO NETWORK CONTROLLER AND BASE STATION FOR MANAGING RADIO RESOURCES	[redacted]	[redacted]	UM	PAT-Closed	CN	2.00421E+12	ZL200420065940U	
4696	SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	DE	2.02004E+12	2.02004E+11	
4697	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Closed	EP	87776711		1649621
4698	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	FPR	APP-Closed	HK	61139288		1090202
4699	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-518871	4850832	2007-531336
4700	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7010503	10-1001561	10-2006-0034273
4701	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2004-0053438	10-0813323	10-2005-0007186
4702	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	APP-Closed	KR	10-2005-0078280		10-2005-0092086

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4703	RADIO NETWORK CONTROLLER AND BASE STATION FORMANAGING RADIO RESOURCES IN A TIME-SLOTTEDCOMMUNICATION SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	KR	20-2004-0020474	20-0363894	
4704	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2009-7016340		10-2009-0091804
4705	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4706	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4707	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/021731		WO2005/006150
4708	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	93120530	I270304	200507568
4709	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	TW	94101356		200605588
4710	METHOD AND SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	APP-Closed	TW	96122961		200818933
4711	SYSTEM FOR MANAGING RADIO RESOURCES IN A TIME-SLOTTED COMMUNICATION SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	TW	93210825	M277196	
4712	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4713	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4714	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	AR	P040102488	47554	47554
4715	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	AT	81708240	2026623	2026623
4716	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	AU	2004301616	2004301616	2004301616
4717	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	AU	2008200105	2008200105	2008200105
4718	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	AU	2009202068	2009202068	2009202068
4719	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	BE	81708240	2026623	2026623
4720	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	BR	PI0412058-2		PI0412058-2
4721	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	CNT	MTR-Closed	US	13/553417	8724541	US-2012-0281634-A1
4722	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CA	2532645	2532645	2532645
4723	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	CH	81708240	2026623	2026623
4724	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENT IN THE ACCESS POINT MANAGEMENT INFORMATION BASE AND MEDIA ACCESS CONTROL PERFORMANCE STATISTICS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00488E+12	ZL200480019512.7	1820516
4725	METHOD FOR USE IN ACCESS POINT (AP) AND ACCESS POINT (AP)	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.01218E+12	ZL201210183285.8	102711144
4726	METHOD FOR EXCHANGING MEASUREMENT IN WIRELESS COMMUNICATIONS FOR USE BY WTRU AND WTRU	[redacted]	[redacted]	PCD	MTR-Closed	CN	2.01218E+12	ZL201210183285.8	102711144
4727	EQUIPMENT FOR REQUESTING TRANSMISSION POWER CONTROL INFORMATION FROM WIRELESS TRANSMISSION/RECEIVING UNIT VIA WIRELESS COMMUNICATION LINK	[redacted]	[redacted]	UM	PAT-Closed	CN	2.0542E+12	ZL200420059701	
4728	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	47782891	6.02004E+11	1649702
4729	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	DE	81708240	6.02004E+12	2026623
4730	APPARATUS FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	DE	2.02004E+12	2.02004E+11	
4731	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DK	47782891	1649702	1649702
4732	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	81708240	2026623	2026623
4733	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	47782891	1649702	1649702
4734	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	EP	81708240	2026623	2026623

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4735	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	ES	47782891	1649702	1649702
4736	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	ES	81708240	2026623	2026623
4737	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FI	47782891	1649702	1649702
4738	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	FR	47782891	1649702	1649702
4739	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	FR	81708240	2026623	2026623
4740	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	47782891	1649702	1649702
4741	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GB	81708240	2026623	2026623
4742	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	PCT	MTR-Closed	GE	[redacted]	[redacted]	[redacted]
4743	METHOD AND SYSTEM FOR SAVING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORM STATISTIC AT ACCESS POINT CONTROL INFORMATIONAL BASE	[redacted]	[redacted]	PCD	MTR-Closed	GE	AP201210721	P20125668	AP201210721
4744	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	GR	81708240	2026623	2026623
4745	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPR	APP-Closed	HK	61115111		1089613
4746	METHOD FOR SIGNALING STATION-SPECIFIC INFORMATION FROM ACCESS POINT (AP) TO NETWORK MANAGEMENT ENTITY (NME) TO REDUCE INTERFERENCE IN WIRELESS LOCAL AREA NETWORKS (WLAN)	[redacted]	[redacted]	EPD	MTR-Closed	HK	131011938	1174470	1174470
4747	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	HU	81708240	2026623	2026623
4748	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	PCT	MTR-Closed	ID	WO0208688458	IDP000021974	462498
4749	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	ID	WO0207702705	IDP000037036	473785
4750	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IE	47782891	1649702	1649702
4751	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	IE	81708240	2026623	2026623
4752	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	IL	172870		172870
4753	A WIRELESS TRANSMIT RECEIVE UNIT (WTRU)	[redacted]	[redacted]	PCT	MTR-Closed	IN	779/DELNP/2006	246908	
4754	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	IT	47782891	1649702	1649702
4755	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	JP	2006-520326		2007-532027
4756	METHOD FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN MANAGEMENT INFORMATION BASE OF ACCESS POINT	[redacted]	[redacted]	PCD	MTR-Closed	JP	2007-244348	5112799	2008-048440
4757	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	JP	2011-055633	5265720	2011-130505
4758	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWERCONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIESIN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2006-7000698	10-1097662	10-2006-0036088
4759	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2004-0055713	10-0684563	10-2005-0009244
4760	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2005-0077787	10-1083915	10-2005-0091858
4761	APPARATUS FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	UMD	PAT-Closed	KR	20-2004-0020643	20-0368339	
4762	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2009-7015039	10-1121311	10-2009-0094378

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4763	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	MTR-Closed	KR	10-2011-7005842	10-1121272	10-2011-0036774
4764	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	MX	PA/a/2006/000639	262814	PA/a/2006/000639
4765	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	47782891	1649702	1649702
4766	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	NL	81708240	2026623	2026623
4767	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	NO	20060747		20060747
4768	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/022711		WO2005/011132
4769	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	SE	47782891	1649702	1649702
4770	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	SG	200600028-5	118745	118745
4771	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	PCD	MTR-Closed	SG	200702027A-4	129442	129442
4772	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	PCD	APP-Closed	SG	201004885-8		163575
4773	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	ETD	MTR-Closed	SK	81708240	2026623	2026623
4774	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	93121225	I275282	200507562
4775	METHOD AND APPARATUS FOR STORING MOBILE STATION PHYSICAL MEASUREMENTS AND MAC PERFORMANCE STATISTICS IN A MANAGEMENT INFORMATION BASE OF AN ACCESS POINT	[redacted]	[redacted]	DIV	MTR-Closed	TW	94151360	I351893	200614830
4776	METHOD AND SYSTEM FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	DIV	MTR-Closed	TW	96125909	I357239	200824332
4777	APPARATUS FOR TRANSFERRING TRANSMIT POWER CONTROL INFORMATION BETWEEN NETWORK MANAGEMENT ENTITIES IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	TW	93211207	I260941	
4778	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4779	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	NP	MTR-Closed	AR	P050100369	47095	47095
4780	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	MTR-Closed	AR	P070104824	63739	63739
4781	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	MTR-Closed	AR	P100103565	75617	75617
4782	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	APP-Closed	BR	PI0508455-4		PI0508455-4
4783	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	CNT	APP-Closed	US	13/895817		US-2013-0250892-A1
4784	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	MTR-Closed	CA	2552734	2552734	2552734
4785	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	MTR-Closed	CA	2834628		2834628
4786	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	MTR-Closed	GE	AP2010005574	P20105121	AP2010005574
4787	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCD	APP-Closed	IN	5568/DELNP/2011		5568/DELNP/2011
4788	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4789	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20050866	MY-145315-A	MY-145315-A
4790	TFC AND E-TFC SELECTION FOR A USER EQUIPMENT	[redacted]	[redacted]	DIV	MTR-Closed	MY	PI20090868	MY-149657-A	
4791	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/000571		WO2005/067659
4792	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	PCT	MTR-Closed	SG	200604319-4	123437	123437
4793	TFC AND E-TFC SELECTION FOR A USER EQUIPMENT	[redacted]	[redacted]	PCD	MTR-Closed	SG	200704895-2	133615	133615
4794	TFC AND E-TFC SELECTION FOR A USER EQUIPMENT	[redacted]	[redacted]	PCD	MTR-Closed	SG	201009838-6	168533	168533
4795	TRANSPORT FORMAT COMBINATION SELECTION IN A WIRELESS TRANSMIT/RECEIVE UNIT	[redacted]	[redacted]	DIV	MTR-Closed	TW	97101562	I370632	200840337
4796	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4797	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	10/931117	7760704	US-2005-0286485-A1

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4798	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	AU	2005267349	2005267349	2005267349
4799	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	AU	2009201618	2009201618	2009201618
4800	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	BR	PI0511351-2		PI0511351-2
4801	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	CNT	MTR-Closed	US	13/755690	8787361	US-2013-0143607-A1
4802	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CA	2571269	2571269	2571269
4803	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00588E+12	ZL200580019713	1969515
4804	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	CN	201210021059X	ZL201210021059X	102547983
4805	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	FPD	APP-Closed	HK	18104682		1245562
4806	APPLICATION SERVER AUTONOMOUS ACCESS (ASAA) SERVER AND RADIO EMITTING/RECEIVING UNIT THAT COMMUNICATES WITH THEM	[redacted]	[redacted]	UM	PAT-Closed	CN	2.00528E+12	ZL200520109576X	
4807	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	DE	57639452	6.02005E+12	1762063
4808	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	UM	PAT-Closed	DE	2.02005E+12	2.02005E+11	
4809	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	57639452	1762063	1762063
4810	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	ETD	MTR-Closed	EP	141844928		2866500
4811	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	ES	57639452	1762063	1762063
4812	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	FR	57639452	1762063	1762063
4813	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GB	57639452	1762063	1762063
4814	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	GE	AP20099790	P20094830	AP20099790
4815	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	FPR	MTR-Closed	HK	71079695	1100112	1100112
4816	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00200603615	IDP000024066	
4817	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	ID	W00200702392	IDP000033793	473680
4818	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	IL	179858		179858
4819	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	IN	194/DELNP/2007	275266	194/DELNP/2007
4820	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	IT	57639452	1762063	1762063
4821	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2007-519289	4644251	2008-505540
4822	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCD	MTR-Closed	JP	2007-230813	4728696	2008-035536
4823	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2005-0056850	10-1120860	10-2006-0088678
4824	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	DIV	MTR-Closed	KR	10-2005-0091903	10-1242081	10-2006-0052954
4825	APPLICATION SERVER AUTONOMOUS ACCESS(ASAA) SERVER ANDWIRELESS TRANSMIT/RECEIVE UNIT FOR COMMUNICATING WITHAN ASAA SERVER	[redacted]	[redacted]	UMD	PAT-Closed	KR	20-2005-0021918	20-0397751	
4826	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	MX	PA/a/2006/015197	273045	
4827	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4828	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	NL	57639452	1762063	1762063
4829	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	NO	20070349		20070349
4830	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/022220		WO2006/012191
4831	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	SG	200608654-0	128173	128173
4832	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	TR	57639452	1762063	1762063
4833	SYSTEM AND METHOD FOR CALL ROUTING AND PAGING ACROSS DIFFERENT TYPES OF NETWORKS	[redacted]	[redacted]	DIV	MTR-Closed	TW	95100387	I446802	200642367
4834	A SERVER FOR PROVIDING WIRELESS TELECOMMUNICATION SERVICES TO A WIRELESS TRANSMIT/RECEIVE UNIT AND THE METHOD THEREOF AND A WIRELESS TRANSMIT/RECEIVE UNIT AND THE METHOD THEREOF	[redacted]	[redacted]	DIV	MTR-Closed	TW	103112993	I502926	201429187
4835	APPLICATION SERVER AUTONOMOUS ACCESS (ASAA) SERVER AND WIRELESS TRANSMIT/RECEIVE UNIT FOR COMMUNICATING WITH AN ASAA SERVER	[redacted]	[redacted]	UMD	PAT-Closed	TW	94210741	I285139	
4836	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4837	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING-CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	CNT	APP-Closed	US	15/439492		US-2017-0250772-A1
4838	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/010385		WO2006/102403

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4839	ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING CODE DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	DIV	APP-Closed	TW	95137444		200731688
4840	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4841	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4842	[redacted]								
4843	[redacted]								
4844	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	AR	P060101583	53857	53857
4845	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	MTR-Closed	AR	P090102673	73183	73183
4846	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	DIV	MTR-Closed	AR	P100100052	75129	75129
4847	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00688E+12		101164243
4848	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Closed	CN	2.01111E+12		102163118
4849	TRANSMITTER AND RECEIVING OF MIXING ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	CN	2.00628E+12	ZL200620006122.2	
4850	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM			UM	PAT-Closed	DE	2.02006E+12	2.02006E+11	
4851	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	MTR-Closed	HU	1218118841	2530844	2530844
4852	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	ETD	MTR-Closed	SK	1218118841	2530844	2530844
4853	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	MTR-Closed	GE	AP2010010386	P20115157	AP201010386
4854	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	FPR	APP-Closed	HK	81067938		1112120
4855	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	FPD	MTR-Closed	HK	121009577		1160706
4856	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	JP	2008-507884		2008-537451
4857	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Closed	JP	2009-176656		2009-284523
4858	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Closed	JP	2011-024062		2011-103693
4859	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCD	APP-Closed	JP	2014-165150		2015-008506
4860	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM			UMD	PAT-Closed	KR	20-2006-0011103	20-0421631	
4861	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4862	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4863	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/014647		WO2006/116003
4864	HYBRID ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM	[redacted]	[redacted]	UM	PAT-Closed	TW	95208662	I298282	
4865	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4866	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4867	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	AR	P070103661	62414	62414
4868	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCD	APP-Closed	AU	2016202549		2016202549
4869	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4870	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CA	2660945	2660945	2660945
4871	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Closed	EP	78113503		2060020
4872	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00200800560	IDP000031822	491730
4873	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	IL	197082	197082	197082
4874	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/018064		WO2008/021396
4875	METHOD AND APPARATUS FOR PROVIDING EFFICIENT PRECODING FEEDBACK IN A MIMO WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	96130244	I479822	200814578
4876	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4877	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4878	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4879	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	NP	MTR-Closed	AR	P070105387	64103	64103
4880	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	DK	78623378	2123095	2123095
4881	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	ES	78623378	2123095	2123095
4882	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	FI	78623378	2123095	2123095
4883	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	FR	78623378	2123095	2123095

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4884	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	ETD	MTR-Closed	FR	1016754S2	2227059	2227059
4885	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	GB	78623378	2123095	2123095
4886	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	ETD	MTR-Closed	GB	1016754S2	2227059	2227059
4887	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	IE	78623378	2123095	2123095
4888	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	IT	78623378	5.02031E+14	2123095
4889	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	NL	78623378	2123095	2123095
4890	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	ETD	MTR-Closed	NL	1016754S2	2227059	2227059
4891	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/024585		WO2008/069950
4892	METHOD AND APPARATUS FOR CONTROLLING DISCONTINUOUS TRANSMISSION AND RECEPTION	[redacted]	[redacted]	EPT	MTR-Closed	SE	78623378	2123095	2123095
4893	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4894	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4895	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	GE	AP2002005378	P20063742	AP20057214
4896	BASE STATION AND USER EQUIPMENT FOR DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	MTR-Closed	GE	AP2002008717	P20084324	AP20078717
4897	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	MTR-Closed	GE	AP2002009929	P20125528	AP20099929
4898	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	ID	W00200302338	IDP000020348	39032
4899	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	APP-Closed	JP	2005-238732		2006-033876
4900	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	APP-Closed	JP	2009-188666		2009-273150
4901	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	APP-Closed	JP	2013-269312		2014-079006
4902	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2009-7016577		10-2009-0040480
4903	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	APP-Closed	NO	20035051		20035051
4904	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/011731		WO2002/093951
4905	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	ETD	MTR-Closed	PL	71057376	1798877	1798877
4906	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCT	MTR-Closed	SG	200306867-7	103491	103491
4907	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	MTR-Closed	SG	200508511-3	134173	134173
4908	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	MTR-Closed	SG	200903146-8	170621	170621
4909	DYNAMIC CHANNEL QUALITY MEASUREMENT PROCEDURE FOR ADAPTIVE MODULATION AND CODING TECHNIQUES	[redacted]	[redacted]	PCD	MTR-Closed	SG	201001877-8	177014	177014
4910	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4911	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4912	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4913	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4914	GROUP COMMUNICATION RELAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/050239		WO2014/121965
4915	COMMUNICATION TERMINAL DEVICE AND METHOD FOR CONTROLLING	[redacted]	[redacted]	NP	MTR-Closed	TW	103101618	I532402	201503746
4916	COMMUNICATION TERMINAL COMMUNICATION DEVICE METHOD FOR PROCESSING A PAGING MESSAGE AND METHOD FOR CONTROLLING A COMMUNICATION TERMINAL	[redacted]	[redacted]	EPT	MTR-Closed	EP	14710205?		2965577
4917	COMMUNICATION TERMINAL COMMUNICATION DEVICE METHOD FOR PROCESSING A PAGING MESSAGE AND METHOD FOR CONTROLLING A COMMUNICATION TERMINAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/053135		WO2014/135368
4918	COMMUNICATION NETWORK COMPONENT COMMUNICATION DEVICES METHOD FOR TRANSMITTING DATA AND METHODS FOR DATA COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/756834	9060371	US-2014-0220992-A1
4919	COMMUNICATION NETWORK COMPONENT COMMUNICATION DEVICES METHOD FOR TRANSMITTING DATA AND METHODS FOR DATA COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
4920	COMMUNICATION NETWORK COMPONENT COMMUNICATION DEVICES METHOD FOR TRANSMITTING DATA AND METHODS FOR DATA COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2014-0010676	10-1560602	10-2014-0099205
4921	COMMUNICATION DEVICE AND METHOD FOR RECEIVING INFORMATION	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
4922	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	DIV	APP-Closed	US	15/350738		US-2017-0127319-A1
4923	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION FOR DIRECT COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/050843		WO2014/131545

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4924	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR COMMUNICATING	[redacted]	[redacted]	EPT	MTR-Closed	EP	11811543S		2761950
4925	COMMUNICATION TERMINAL NETWORK COMPONENT BASE STATION AND METHOD FOR COMMUNICATING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2011/073883		WO2013/044998
4926	LOCATION-AWARE MANAGEMENT OF LISTS OF UNIFORM RESOURCE LOCATORS (URLS) FOR MOBILE DEVICES	[redacted]	[redacted]	NP	APP-Closed	US	13/715375		US-2014-0171117-A1
4927	LOCATION-AWARE MANAGEMENT OF LISTS OF UNIFORM RESOURCE LOCATORS (URLS) FOR MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/047807		WO2014/092791
4928	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4929		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4930		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4931		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4932	A COMMUNICATIONS TERMINAL AND A METHOD FOR SELECTING A TRANSMIT ANTENNA FOR A TRANSMISSION TO A RADIO COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12	1.02014E+11	1.02014E+11
4933	CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	11/929368	7729408	US-2008-0063032-A1
4934	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	DE	989667506	698343441	1046241
4935	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	989667506	1046241	1046241
4936	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4937	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	JP	2000-528027	4542701	2002-501321
4938	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2000-7007435	10-0461736	10-2001-0024832
4939	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	NL	989667506	1046241	1046241
4940	METHOD FOR USING CODEBOOK INDEXING TO ACHIEVE HIGH BIT DENSITIES IN A DIRECT-SEQUENCE CDMA SPREAD SPECTRUM COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US1998/027591		WO1999/035760
4941	RADIO COMMUNICATION DEVICES AND CELLULAR WIDE AREA RADIO BASE STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2014/051026		WO2014/131556
4942	DEVICE AND METHOD FOR FREQUENCY OFFSET ESTIMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2013/000342		WO2014/153677
4943	WIRELESS STATION AND METHODS FOR TOF POSITIONING USING REVERSE-DIRECTION GRANT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/068828		WO2014/099030
4944	WIRELESS STATION AND METHODS FOR TOF POSITIONING USING REVERSE-DIRECTION GRANT	[redacted]	[redacted]	CNT	APP-Closed	US	15/670522		US-2016-0270124-A1
4945	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4946	USING MULTIPLE SOURCES OF LOCATION-AID DATA TO DETERMINE POSITION INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/018349		WO2014/143544
4947	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4948	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2015-7016387		10-2015-0087376
4949	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL AND ACCESS COMMUNICATION VIA A COMMON ANTENNA ARRAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/012169		WO2014/113749
4950	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4951	METHOD AND DEVICE FOR DETERMINING A SIGNAL DETECTION QUALITY FOR A PHYSICAL CONTROL CHANNEL	[redacted]	[redacted]	NP	APP-Closed	US	14/138218		US-2014-0204781-A1
4952	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4953	APPARATUS SYSTEM AND METHOD OF WIRELESS BACKHAUL COMMUNICATION BETWEEN WIRELESS COMMUNICATION NODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/012477		WO2014/116657
4954	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4955	METHOD AND APPARATUS FOR AUTONOMOUS CLUSTER HEAD SELECTION FOR MACHINE-TYPE-COMMUNICATIONS (MTC)	[redacted]	[redacted]	EPT	MTR-Closed	EP	138417324		2901574
4956	METHOD AND APPARATUS FOR AUTONOMOUS CLUSTER HEAD SELECTION FOR MACHINE-TYPE-COMMUNICATIONS (MTC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058153		WO2014/051951
4957	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4958	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	EPT	APP-Closed	EP	148375157		3036946
4959	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4960		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
4961	USER EQUIPMENT AND METHOD FOR ENHANCED UPLINK POWER CONTROL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/051892		WO2015/026943
4962	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/043411		WO2014/209794
4963	DEVICE-TO-DEVICE CONTENTION MANAGEMENT SCHEME FOR MOBILE BROADBAND NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	103119069	I538550	201501564
4964	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4965	CIRCUIT AND METHOD FOR SOFTWARE TRACING	[redacted]	[redacted]	EPA	MTR-Closed	FR	121599294	2639702	2639702
4966	CIRCUIT AND METHOD FOR SOFTWARE TRACING	[redacted]	[redacted]	EPA	MTR-Closed	GB	121599294	2639702	2639702
4967	DISTRIBUTED MOBILITY ANCHORING FOR WIRELESS NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	US	13/942060	9119136	US-2014-0023038-A1
4968	METHOD AND DEVICE FOR PROCESSING A SIGNAL BASED ON A FIRST AND A SECOND COVARIANCE MEASURE	[redacted]	[redacted]	NP	MTR-Closed	JP	2014-128170	5873136	2015-012613
4969	SYSTEMS AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION IN THE ABSENCE OF NETWORK COVERAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061379		WO2014/052303
4970	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	NP	APP-Closed	US	13/926273		US-2014-0092828-A1
4971	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01338E+12		104904303
4972	OS LEVEL WLAN/CELLULAR AGGREGATION FOR INTEGRATED FEMTO AND AP DEPLOYMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062340		WO2014/052858

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
4973	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060019		WO2014/052083
4974	METHOD OF ENHANCED INTERFERENCE MEASUREMENTS FOR CHANNEL STATE INFORMATION (CSI) FEEDBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060800		WO2014/052175
4975	MANAGEMENT APPARATUS AND METHOD TO SUPPORT WLAN OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060433		WO2014/052129
4976	ANDSF POLICIES FOR WLAN AND PLMN SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061487		WO2014/052338
4977	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	BE	138420963	2901768	2901768
4978	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4979	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	CH	138420963	2901768	2901768
4980	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	DE	138420963	2901768	2901768
4981	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	ETS	APP-Closed	EP	171775760		3247050
4982	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	ES	138420963	2901768	2901768
4983	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	FR	138420963	2901768	2901768
4984	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	GB	138420963	2901768	2901768
4985	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	GR	138420963	2901768	2901768
4986	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	HU	138420963	2901768	2901768
4987	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	IE	138420963	2901768	2901768
4988	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	NL	138420963	2901768	2901768
4989	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061489		WO2014/052338
4990	ANDSF PARAMETERS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	SK	138420963	2901768	2901768
4991	SELECTIVE JOINDER OF USER EQUIPMENT WITH WIRELESS CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/059780		WO2014/052048
4992	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCD	APP-Closed	JP	2016-139730		2016-201825
4993	DETERMINATION OF ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL CANDIDATES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060159		WO2014/052096
4994	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4995	METHOD FOR FACILITATING SYNCHRONISATION BETWEEN A COMMUNICATIONS NETWORK AND A WIRELESS COMMUNICATIONS DEVICE OPERATING IN A CPC DTX MODE AND A WIRELESS COMMUNICATIONS DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	EP	112993297		2948807
4996	SELF-CORRECTING MULTIRATE FILTER	[redacted]	[redacted]	EPT	MTR-Closed	EP	128095585		2801152
4997	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
4998	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	NP	MTR-Closed	US	13/336550	8718102	US-2013-0156018-A1
4999	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	EPT	MTR-Closed	DE	128058526	6.02032E+12	2792200
5000	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	EPT	MTR-Closed	EP	128058526	2792200	2792200
5001	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	EPT	MTR-Closed	GB	128058526	2792200	2792200
5002	MINIMALISTIC LTE MAINTENANCE TIMING ADVANCE METHOD	[redacted]	[redacted]	PCT	MTR-Closed	JP	2014-547281	5876163	2015-500614
5003	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5004									
5005	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	EPT	MTR-Closed	DE	137972352	6.02013E+12	2856674
5006	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5007	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	EPT	MTR-Closed	EP	137972352	2856674	2856674
5008	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5009									
5010	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	EPT	MTR-Closed	GB	137972352	2856674	2856674
5011	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5012									
5013									
5014	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/041676		WO2013/180991
5015	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5016	TECHNIQUES TO MANAGE HETEROGENOUS CARRIER TYPES	[redacted]	[redacted]	PCT	MTR-Closed	US	13/976442	9137797	US-2015-0085833-A1
5017	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5018	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	138410162		2901619
5019	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-530172		2015-530833
5020	IMS BASED P2P STREAMING AND DOWNLOAD SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062592		WO2014/052955
5021	METHOD FOR SEAMLESS UNICAST-BROADCAST SWITCHING DURING DASH-FORMATTED CONTENT STREAMING	[redacted]	[redacted]	NP	APP-Closed	US	13/929151		US-2014-0095668-A1
5022	METHOD FOR SEAMLESS UNICAST-BROADCAST SWITCHING DURING DASH-FORMATTED CONTENT STREAMING	[redacted]	[redacted]	EPT	APP-Closed	EP	138419841		2901725
5023	METHOD FOR SEAMLESS UNICAST-BROADCAST SWITCHING DURING DASH-FORMATTED CONTENT STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060604		WO2014/052155
5024	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	138487509	2912845	2912845
5025	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	AT	138487509	2912845	2912845
5026	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	BE	138487509	2912845	2912845
5027	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	CH	138487509	2912845	2912845
5028	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	DE	138487509	2912845	2912845
5029	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	ES	138487509	2912845	2912845
5030	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	FR	138487509	2912845	2912845
5031	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	GB	138487509	2912845	2912845
5032	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	GR	138487509	2912845	2912845
5033	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	HU	138487509	2912845	2912845
5034	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	IE	138487509	2912845	2912845

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5035	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	IE	138487509	2912845	2912845
5036	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	NL	138487509	2912845	2912845
5037	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	EPT	MTR-Closed	SK	138487509	2912845	2912845
5038	ENHANCED VIDEO STREAMING WITH APPLICATION LAYER FORWARD ERROR CORRECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062417		WO2014/065997
5039	ENERGY-AWARE MULTIMEDIA ADAPTATION FOR STREAMING AND CONVERSATIONAL SERVICES	[redacted]	[redacted]	EPT	APP-Closed	EP	138420989		2901751
5040	ENERGY-AWARE MULTIMEDIA ADAPTATION FOR STREAMING AND CONVERSATIONAL SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062606		WO2014/052956
5041	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	EPT	APP-Closed	EP	138418884		2901749
5042	PERIODIC CHANNEL STATE INFORMATION REPORTING FOR TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060020		WO2014/052084
5043	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/928648	9173124	US-2014-0094162-A1
5044	SYSTEMS AND METHODS FOR WIRELESS SIGNAL MEASUREMENT AND REPORTING FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061283		WO2014/052258
5045	TRANSMISSION OF UPLINK CONTROL INFORMATION IN INTER-eNB CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061562		WO2014/052375
5046	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MAPPING FOR CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060611		WO2014/052158
5047	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5048	MACHINE TYPE COMMUNICATION MONITORING FRAMEWORK FOR 3GPP SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061569		WO2014/052381
5049	SYSTEMS AND METHODS FOR LOW POWER CONSUMPTION IN WIRELESS COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061304		WO2014/052268
5050	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-531347		2015-532822
5051	SYSTEMS AND METHODS FOR SEMI-PERSISTENT SCHEDULING OF WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061761		WO2014/052499
5052	TECHNIQUES FOR DETERMINING COVARIANCE MEASURES BASED ON CORRELATION CRITERIA	[redacted]	[redacted]	NP	MTR-Closed	US	14/026379	9071318	US-2015-0078428-A1
5053	TECHNIQUES FOR DETERMINING COVARIANCE MEASURES BASED ON CORRELATION CRITERIA	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
5054	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5055	METHOD FOR DETERMINING A TRANSMISSION DIRECTION FOR A COMMUNICATION A METHOD FOR DETERMINING A PRECODING MATRIX FOR A COMMUNICATION AND A DEVICE CONFIGURED TO DO THE SAME	[redacted]	[redacted]	NP	MTR-Closed	US	14/022338	9178588	US-2015-0071367-A1
5056	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013259165	2013259165	2013259165
5057	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5058	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	CA	2871107	2871107	2871107
5059	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01385E+12	ZL201380024147.8	104303468
5060	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	EPT	MTR-Closed	EP	137875027	2847950	2847950
5061	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-511773	5905160	2015-521426
5062	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2014-7031398	10-1604207	10-2015-0003254
5063	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/040618		WO2013/170194
5064	METHOD TO IDENTIFY AND DIFFERENTIATE BACKGROUND TRAFFIC	[redacted]	[redacted]	PCT	MTR-Closed	RU	2014141602	2595512	2014141602
5065	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032233		WO2014/186062
5066	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5067	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5068	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	[redacted]	[redacted]	NP	MTR-Closed	US	14/041446	9124673	US-2015-0095508-A1
5069	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056212		WO2015/047846
5070	HYBRID BEAMFORMING FOR DATA TRANSMISSION	[redacted]	[redacted]	EPT	APP-Closed	EP	13930857.7		2965111
5071	HYBRID BEAMFORMING FOR DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048008		WO2014/158206
5072	ORTHOLOGONAL BEAMFORMING FOR MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MU-MIMO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048639		WO2014/158208
5073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5074	REPORTING OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048344		WO2014/065898
5075	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION REQUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7016233		10-2017-0072951
5076	PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION (RA) FOR A HYBRID AUTOMATIC RETRANSMISSION REQUEST-ACKNOWLEDGE (HARQ-ACK) TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048348		WO2014/065899
5077	COMMUNICATION OF POWER CONSUMPTION CONFIGURATIONS DURING HANDOVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/048607		WO2014/088649
5078	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5079	ADAPTIVE SECTORIZATION OF A SPATIONAL REGION FOR PARALLEL MULTI-USER TRANSMISSIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	13893087.0		3042486
5080	ADAPTIVE SECTORIZATION OF A SPATIONAL REGION FOR PARALLEL MULTI-USER TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058140		WO2015/034503
5081	SEQUENCE GENERATION FOR CELL SPECIFIC REFERENCE SIGNAL (CRS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/055414		WO2014/088654
5082	DEVICE-TO-DEVICE DISTRIBUTED SCHEDULING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062277		WO2014/088687
5083	DEVICE-TO-DEVICE DISTRIBUTED SCHEDULING	[redacted]	[redacted]	PCT	MTR-Closed	US	14/126935	9100976	US-2014-0169298-A1
5084	NEW CARRIER TYPE (NCT) INFORMATION EMBEDDED IN SYNCHRONIZATION SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058028		WO2014/088659

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5085	SIMULTANEOUS TRANSMIT AND RECEIVE (STR) STRUCTURES IMMUNE TO PHASE AND AMPLITUDE IMBALANCES	[redacted]	[redacted]	EPT	APP-Closed	EP	13859685 3		2929632
5086	SIMULTANEOUS TRANSMIT AND RECEIVE (STR) STRUCTURES IMMUNE TO PHASE AND AMPLITUDE IMBALANCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/068485		WO2014/088676
5087	CSI RS ANTENNA PORTS EXTENSION AND 3D CODEBOOK DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062402		WO2015/047333
5088	TECHNIQUES FOR BEAMFORMING TO MITIGATE MULTI-USER LEAKAGE AND INTERFERENCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	13885 4828	2979368	2979368
5089	TECHNIQUES FOR BEAMFORMING TO MITIGATE MULTI-USER LEAKAGE AND INTERFERENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062401		WO2014/158226
5090	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5091	IMPROVED TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/068491		WO2014/109818
5092	TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	[redacted]	[redacted]	CNT	APP-Closed	US	15/425811		US-2018-0184417-A1
5093	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUE	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-545862		2016-508773
5094	IMPROVED CHANNEL QUALITY INFORMATION FEEDBACK TECHNIQUES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077517		WO2014/107371
5095	RANK INDICATOR INHERITANCE FOR SUBFRAME RESTRICTED CHANNEL STATE INFORMATION REPORTING	[redacted]	[redacted]	EPT	APP-Closed	EP	138702295		2941917
5096	RANK INDICATOR INHERITANCE FOR SUBFRAME RESTRICTED CHANNEL STATE INFORMATION REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074639		WO2014/107278
5097	APPARATUS AND METHOD FOR CROSS-CARRIER QUASI CO-LOCATION SIGNALING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/078105		WO2014/107416
5098	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	138702410	2941913	2941913
5099	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	138702410	2941913	2941913
5100	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	138702410	2941913	2941913
5101	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	138702410	2941913	2941913
5102	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	138702410	2941913	2941913
5103	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	138702410	2941913	2941913
5104	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	138702410	2941913	2941913
5105	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	138702410	2941913	2941913
5106	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	138702410	2941913	2941913
5107	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	138702410	2941913	2941913
5108	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077649		WO2014/107383
5109	APPARATUS AND METHOD FOR CONTROL CHANNEL MONITORING IN A NEW CARRIER TYPE (NCT) WIRELESS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	138702410	2941913	2941913
5110	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064301		WO2014/107286
5111	PERFORMANCE MONITORING OF WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING IN WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	103100853	I526091	201440545
5112	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5113	BASEBAND CANCELLATION OF DIRECT SEQUENCE SPREAD SPECTRUM PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	NP	APP-Closed	US	13/928468		US-2015-0003500-A1
5114	BASEBAND CANCELLATION OF DIRECT SEQUENCE SPREAD SPECTRUM PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	EPT	APP-Closed	EP	148173560		3014777
5115	BASEBAND CANCELLATION OF DIRECT SEQUENCE SPREAD SPECTRUM PLATFORM RADIO INTERFERENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/040150		WO2014/209538
5116	MAPPING SPECIAL SUBFRAMES IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060201		WO2014/113678
5117	RESOURCE MANAGEMENT IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/054542		WO2015/023253
5118	MANAGING COMMUNICATIONS IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01338E+12		105359571
5119	MANAGING COMMUNICATIONS IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	EPT	APP-Closed	EP	138913864		3033904
5120	MANAGING COMMUNICATIONS IN MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/054557		WO2015/023253
5121	INTERFERENCE AVERAGING AND INTERFERENCE RESOURCE GROUPS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058556		WO2014/088662
5122	CENTRALIZED PARTITIONING OF USER DEVICES IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	138721022		2946587
5123	CENTRALIZED PARTITIONING OF USER DEVICES IN A HETEROGENEOUS WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/056666		WO2014/113072
5124	ENERGY-HARVESTING DEVICES IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058564		WO2014/109797
5125	DIGITAL VOLTAGE RAMP GENERATOR	[redacted]	[redacted]	NP	APP-Closed	US	14/066961		US-2015-0116012-A1
5126	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5127	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/040367		WO2014/194279
5128	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	14/779947		US-2016-0050701-A1
5129	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5130	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	MTR-Closed	AU	2013296189	2013296189	2013296189
5131	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCD	MTR-Closed	AU	2016213733		2016213733
5132	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5133	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	MTR-Closed	CA	2878379		2878379
5134	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	13825609?		2880831
5135	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL SCRAMBLING AND DEMODULATION REFERENCE SIGNAL SEQUENCE GENERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053653		WO2014/022860
5136	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5137	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7017586		10-2017-0078849
5138	BLIND DECODING FOR AN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL (EPDCCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060057		WO2014/052088
5139	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5140	CHANNEL STATE INFORMATION FEEDBACK SCHEME FOR COOPERATIVE MULTI POINT TRANSMISSION AND CARRIER AGGREGATION SCENARIO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/066786		WO2014/070602
5141	LONG-TERM EVOLUTION DEVICE-TO-DEVICE DISCOVERY USING CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/063063		WO2014/070359
5142	SIGNALING QOS REQUIREMENTS AND UE POWER PREFERENCE IN LTE-A NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/060146		WO2014/070321
5143	EXTENDED DISCONTINUOUS RECEPTION (DRX) CYCLE LENGNTH IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067582		WO2014/070933
5144	METHODS FOR IMPROVING ON-TIME THROUGHPUT IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062442		WO2014/070347
5145	METHODS FOR IMPROVING ON-TIME THROUGHPUT IN WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	US	14/127015		US-2016-0183281-A1
5146	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5147	COVERAGE BOOSTING TRANSMISSION METHOD FOR LTE TECHNOLOGY	[redacted]	[redacted]	EPT	APP-Closed	EP	13851994?		2915267
5148	COVERAGE BOOSTING TRANSMISSION METHOD FOR LTE TECHNOLOGY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/065549		WO2014/070480
5149	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5150	SYSTEM AND METHOD OF CELL OUTAGE COMPENSATION IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067317		WO2014/070778
5151	FREQUENCY OFFSET MEASUREMENT ENHANCEMENTS FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064387		WO2014/070611
5152	INTER-RAT MOBILITY OF IN-DEVICE COEXISTENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067306		WO2014/070768
5153	FAST MODULATION AND CODING SCHEME ADAPTATION PROTOCOL FOR LONG TERM EVOLUTION WITH MULTIPLE-USER MULTIPLE-INPUT MULTIPLE OUTPUT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064385		WO2013/064385
5154	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075100		WO2014/133641
5155	A METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062395		WO2014/109802
5156	CHANNEL QUALITY INDICATION FOR FALLBACK TRANSMISSION MODE OVER NEW CARRIER TYPE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075849		WO2014/113171
5157	CHANNEL QUALITY INDICATION FOR FALLBACK TRANSMISSION MODE OVER NEW CARRIER TYPE	[redacted]	[redacted]	PCT	APP-Closed	US	14/652600		US-2015-0327247-A1
5158	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2016-7032428		10-2016-0136472
5159	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075830		WO2014/109873
5160	APPARATUS SYSTEM AND METHOD OF LAWFUL INTERCEPTION (LI) IN A CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064756		WO2014/107208
5161	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064761		WO2014/113103
5162	CONTENT URL AUTHENTICATION FOR DASH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/076837		WO2014/113183
5163	PRESENCE SERVICE USING IMS BASED DASH SERVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077745		WO2014/113197
5164	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01488E+12	ZL201480010060285	104956631
5165	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	14756635O	2962435	2962435
5166	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	AT	14756635O	2962435	2962435
5167	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	BE	14756635O	2962435	2962435
5168	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	CH	14756635O	2962435	2962435
5169	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	14756635O	2962435	2962435
5170	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	EE	14756635O	2962435	2962435
5171	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	ES	14756635O	2962435	2962435
5172	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	14756635O	2962435	2962435
5173	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	14756635O	2962435	2962435
5174	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	GR	14756635O	2962435	2962435
5175	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	HU	14756635O	2962435	2962435
5176	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	IE	14756635O	2962435	2962435
5177	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	NL	14756635O	2962435	2962435
5178	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	EPT	MTR-Closed	SK	14756635O	2962435	2962435
5179	LINK-AWARE STREAMING ADAPTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/019031		WO2014/134309
5180	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	EPT	APP-Closed	EP	13872249?		2946496
5181	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/063793		WO2014/113095
5182	COMMUNICATION OF SECURITY KEY INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061518		WO2014/113082
5183	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	13871467O		2946490
5184	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061630		WO2014/113083
5185	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5186	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5187	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTANCE INTERFERENCE IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061461		WO2014/113080
5188	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5189	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	EPT	APP-Closed	EP	13871565I		2946491
5190	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077294		WO2014/113190
5191	CHANNEL STATE INFORMATION-REFERENCE SIGNAL PATTERNS FOR TIME DIVISION DUPLEX SYSTEMS IN LONG TERM EVOLUTION WIRELESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062428		WO2014/113087
5192	SYSTEMS AND METHODS FOR MOBILITY OPTIMIZATION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061962		WO2014/113085
5193	SYSTEMS AND METHODS FOR GENERATING A DISCOVERY SIGNAL IN A DEVICE-TO-DEVICE OR NETWORK COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062446		WO2014/113088
5194	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	138714167		2946591
5195	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061546		WO2014/113084
5196	FAST SMALL CELL DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058579		WO2014/113075
5197	DISCOVERY SIGNAL IN CLUSTER-BASED SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/058582		WO2014/113076
5198	DISCOVERY SIGNAL IN CLUSTER-BASED SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	US	14/127482		US-2015-0004969-A1
5199	DEVICE-TO-DEVICE DISCOVERY WITH DIRECT RADIO SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/057709		WO2014/113073
5200	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	EPT	APP-Closed	EP	138719372		2946492
5201	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/057882		WO2014/113074
5202	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	[redacted]	[redacted]	NP	MTR-Closed	TW	103100202	I528772	201448548
5203	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5204	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/041612		WO2014/197657
5205	MANAGER FOR DASH MEDIA STREAMING	[redacted]	[redacted]	NP	MTR-Closed	TW	103119402	I586158	201507454
5206	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5207	TECHNIQUES FOR FILTERING CANDIDATE CELLS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12	1.02013E+11	1.02013E+11
5208	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5209	MULTIPLEXING OF CHANNEL STATE INFORMATION AND HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053659		WO2014/022861
5210	UPLINK POWER CONTROL FOR PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	EPT	APP-Closed	EP	138249768		2880801
5211	UPLINK POWER CONTROL FOR PHYSICAL UPLINK CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053660		WO2014/022862
5212	UPLINK CONTROL INFORMATION TRANSMISSION WITH LARGE NUMBER OF BITS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053663		WO2014/022863
5213	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062228		WO2014/130093
5214	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061897		WO2014/130091
5215	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062384		WO2014/130094
5216	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	[redacted]	[redacted]	CNT	APP-Closed	US	15/194288		US-2016-0309405-A1
5217	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/062455		WO2016/175919
5218	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	[redacted]	[redacted]	NP	MTR-Closed	TW	103113871	I552619	201511591
5219	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5220	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	APP-Closed	EP	138999107		3090585
5221	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/076783		WO2015/094314
5222	NETWORK-ASSISTED MOBILITY MANAGEMENT USING MULTIPLE RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	US	15/038397		US-2016-0295477-A1
5223	MEASURING LINK PERFORMANCE USING MULTIPLE RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/076785		WO2015/094316
5224	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5225	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7036484		10-2017-0032479
5226	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077129		WO2014/130154
5227	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061519		WO2014/133589
5228	DEVICE TO DEVICE COMMUNICATION WITH CLUSTER COORDINATING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077120		WO2014/130153
5229	DEVICE TO DEVICE COMMUNICATION WITH CLUSTER COORDINATING	[redacted]	[redacted]	PCT	APP-Closed	US	14/767941		US-2016-0021526-A1
5230	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		104995963
5231	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	147571194	2962497	2962497
5232	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	AT	147571194	2962497	2962497
5233	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	BE	147571194	2962497	2962497
5234	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	CH	147571194	2962497	2962497
5235	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	DE	147571194	6.02013E+12	2962497
5236	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EE	147571194	2962497	2962497
5237	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	ES	147571194	2962497	2962497
5238	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	FR	147571194	2962497	2962497
5239	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GB	147571194	2962497	2962497
5240	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	GR	147571194	2962497	2962497
5241	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	HU	147571194	2962497	2962497
5242	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	IE	147571194	2962497	2962497
5243	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	NL	147571194	2962497	2962497
5244	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	SK	147571194	2962497	2962497
5245	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/019299		WO2014/134407
5246	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	147569008		2962496
5247	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/019304		WO2014/134408
5248	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	APP-Closed	CN	1.0138E+12		105103581
5249	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-557997		2016-507203
5250	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCD	APP-Closed	JP	2017-101509		2017-163801

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
S251	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062183		WO2014/130092
S252	END-TO-END (E2E) TUNNELING FOR MULTI-RADIO ACCESS TECHNOLOGY (MULTI-RAT)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/061573		WO2015/047237
S253	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/064885		WO2014/070434
S254	MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067648		WO2014/066885
S255	SIGNALING AND CHANNEL DESIGNS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053420		WO2014/022769
S256	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S257	COOPERATIVE MULTIPLE BEAM TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/068621		WO2015/020986
S258	ADAPTIVE CELL RANGE EXPANSION MECHANISMS FOR LTE CELLS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/064751		WO2015/088683
S259	A SYSTEM AND METHOD FOR FREQUENCY CONTROL LOOP IN A MOBILE DEVICE WITH PLURALITY OF SIMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2013/001633		WO2015/095986
S260	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
S261	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S262	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	APP-Closed	US	12/786229		US-2011-0299648-A1
S263	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	APP-Closed	CN	2.01111E+12		102281217
S264	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	NP	APP-Closed	JP	2011-120954		2011-259423
S265	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S266	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	138227913		2878093
S267	HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGE (HARQ-ACK) CODEBOOK GENERATION FOR INTER-BAND TIME DIVISION DUPLEX (TDD) CARRIER AGGREGATION (CA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/052584		WO2014/018984
S268	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S269	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGMA MODULATOR WITH CURRENT-MODE INPUT	[redacted]	[redacted]	NP	MTR-Closed	US	12/879477	8711988	US-2012-0063519-A1
S270	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGNMA MODULATOR WITH CURRENT-MODE INPUT	[redacted]	[redacted]	NP	MTR-Closed	CN	201110276482X	ZL201110276482X	102404014
S271	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGNMA MODULATOR WITH CURRENT-MODE INPUT	[redacted]	[redacted]	EPA	MTR-Closed	EP	11180627.9		2429081
S272	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
S273	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	DE	121720734	6.02012E+12	2541764
S274	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	EP	121720734	2541764	2541764
S275	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	FR	121720734	2541764	2541764
S276	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	GB	121720734	2541764	2541764
S277	SYSTEM AND METHOD FOR HIGH PERFORMANCE COHERENT PEAK COMPRESSION ESTIMATION	[redacted]	[redacted]	NP	MTR-Closed	US	13/594616	8639199	
S278	SYSTEM UND VERFAHREN ZUR LEISTUNGSSTARKEN KOHÄRENTEN SPITZENKOMPRESSIONSSCHÄTZUNG	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
S279	SYSTEM AND METHOD FOR PRESERVING INPUT IMPEDANCE OF A CURRENT-MODE CIRCUIT	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01121E+12	ZL201210029899.5	102957441
S280	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	CNT	APP-Closed	US	14/575421		US-2015-0171837-A1
S281	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S282	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Closed	JP	2012-063394		2012-199923
S283	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	[redacted]	[redacted]	DIV	APP-Closed	JP	2015-082377		2015-149765
S284	TUNABLE WIDEBAND DISTRIBUTION CIRCUIT	[redacted]	[redacted]	NP	APP-Closed	CN	2.01311E+12		103634018
S285	VARIABLE INDUCTOR FOR LC OSCILLATOR	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12		1.02013E+11
S286	MULTI-STANDARD SYSTEMS AND METHODS WITH INTERFERER MITIGATION	[redacted]	[redacted]	NP	MTR-Closed	TW	104105344	I578823	201607351
S287	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S288	METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01381E+12		104429150
S289	METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053428		WO2014/022778
S290	DEVICE TRIGGER RECALL/REPLACE FEATURE FOR 3GPP/M2M SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053476		WO2014/022787
S291	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2015-524508	5857216	2015-526042
S292	DISCONTINUOUS RECEPTION (DRX) RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/053589		WO2014/022847
S293	ALWAYS-ON BEARER FOR SMALL DATA TRANSFERS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062379		WO2014/052877
S294	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S295	EBG DESIGNS FOR MITIGATING RADIO FREQUENCY INTERFERENCE	[redacted]	[redacted]	NP	MTR-Closed	TW	104108327	I593249	201601474
S296	METHOD AND RELATED MOBILE DEVICE FOR REFERENCE SIGNAL TIME DIFFERENCE BASED LOCALIZATION	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12	1.02014E+11	1.02014E+11
S297	METHOD AND DEVICE FOR DETECTING INTERFERENCE SCENARIO	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02013E+12	1.02013E+11	1.02013E+11
S298	INTERFERENCE AID FREQUENCY OFFSET ESTIMATION FOR USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2013/001513		WO2015/081458
S299	POSITIONING APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	AU	49399/00		49399/00
S300	POSITIONING APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	AU	2002216199		2002216199
S301	POSITIONING [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S302	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
S303	POSITION DETERMINATION	[redacted]	[redacted]	DIV	MTR-Closed	GB	129411	2352900	2352900
S304	POSITIONING APPARATUS	[redacted]	[redacted]	NP	MTR-Closed	GB	1294024	2376363	2376363
S305	POSITIONING APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2000/002055		WO2000/073812
S306	POSITIONING APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2001/005480		WO2002/046789
S307	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
S308	POSITIONING RECEIVER	[redacted]	[redacted]	EPA	PAT-Closed	EP	3054962		1067701
S309	RF RECEIVER FOR PSEUDO-RANDOM ENCODED SIGNALS IN A SATELLITE RANGING SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	GB	9315720B	2351864	2351864
S310	PCI PARTITION AND ALLOCATION FOR CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067575		WO2014/070929
S311	METHOD TO ENABLE OPTIMIZATION FOR SMALL DATA IN AN EVOLVED PACKET CORE (EPC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067643		WO2014/070949
S312	TECHNIQUES FOR DEPLOYING SMALL CELLS AS SECONDARY CELLS FOR USER EQUIPMENT	[redacted]	[redacted]	EPT	APP-Closed	EP	13871474G		2946589
S313	TECHNIQUES FOR DEPLOYING SMALL CELLS AS SECONDARY CELLS FOR USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/071933		WO2014/113141
S314	IMPROVED HANDOVER WITH PING PONG AVOIDANCE IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077754		WO2014/130157
S315	UE BASED D2D DISCOVERY	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7033831		10-2017-0132352
S316	UE-BASED D2D DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077753		WO2014/130156
S317	TARGETED GROUP-BASED DEVICE DISCOVERY FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	13876018G		2959704
S318	TARGETED GROUP-BASED DEVICE DISCOVERY FOR WIRELESS COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074871		WO2014/130144
S319	PATH SWITCHING PROCEDURE FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	13875402G		2959648
S320	PATH SWITCHING PROCEDURE FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074867		WO2014/130183
S321	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0138E+12		104956710
S322	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	13876584G		2962487
S323	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	IN	4487/CHENP/2015		4487/CHENP/2015
S324	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-560174		2016-512400
S325	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2015-7020781		10-2015-0105863
S326	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077748		WO2014/133662
S327	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074873		WO2014/133631
S328	TECHNIQUES FOR CONNECTIONLESS SMALL DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/068863		WO2014/133603
S329	METHOD AND APPARATUS FOR CONFIGURING AND USING SMALL DATA RADIO BEARERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075633		WO2014/133653
S330	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0138E+12		105934978
S331	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7013782		10-2016-0068958
S332	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/076031		WO2015/094215
S333	TRANSMISSION POWER FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	14/353583		US-2016-0330699-A1
S334	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077142		WO2014/158264
S335	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING	[redacted]	[redacted]	NP	MTR-Closed	TW	103111064	I526062	201445991
S336	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING	[redacted]	[redacted]	PCT	APP-Closed	US	14/778705		US-2016-0050246-A1
S337	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	13880646G		2979471
S338	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7026236		10-2017-0029025
S339	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077793		WO2014/158275
S340	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077905		WO2014/163696
S341	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	13881363G		2982219
S342	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S343		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S344		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S345		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S346		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S347		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S348		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S349		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S350		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S351		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S352		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S353		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S354		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
S355	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077806		WO2014/163697
S356	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	103112288	I552556	201505403
S357	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	US	14/772523		US-2016-0014667-A1

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5358	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	EP	147742142	2979427	2979427
5359	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	FPR	APP-Closed	HK	16105179	1217250	1217250
5360	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/030967		WO2014/160553
5361	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	[redacted]	[redacted]	NP	MTR-Closed	TW	103111028	I552587	201515452
5362	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/078112		WO2014/158279
5363	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	EPT	APP-Closed	EP	138812342		2982078
5364	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077636		WO2014/163691
5365	TECHNIQUES TO FACILITATE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077521		WO2014/158273
5366	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077764		WO2014/158274
5367	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	[redacted]	[redacted]	NP	MTR-Closed	TW	103111080	I551168	201446039
5368	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5369	USER EQUIPMENT AND METHOD FOR DISTRIBUTED CHANNEL ACCESS FOR D2D COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/068786		WO2014/158235
5370	NETWORK-ASSISTED LTE CHANNEL ACQUISITION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077686		WO2014/163693
5371	NETWORK-ASSISTED LTE CHANNEL ACQUISITION	[redacted]	[redacted]	NP	MTR-Closed	TW	103112287	I532403	201507534
5372	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5373	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01338E+12		105265016
5374	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077163		WO2014/163690
5375	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	[redacted]	[redacted]	PCT	APP-Closed	US	14/778801		US-2016-0050706-A1
5376	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075726		WO2014/163686
5377	RADIO LINK MONITORING FOR EPDCCH	[redacted]	[redacted]	PCT	APP-Closed	US	14/777122		US-2016-0029234-A1
5378	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01488E+12	ZL201488011175O	105103473
5379	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	14778396O		2982056
5380	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	FPR	APP-Closed	HK	16105508O		1217579
5381	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032251		WO2014/165411
5382	METHOD AND APPARATUS FOR CONTROLLING SMALL DATA TRANSMISSION ON THE UPLINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067522		WO2014/070801
5383	SPECTRUM RECLAIMING IN A LEASED SPECTRUM SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077747		WO2015/099720
5384	USER EQUIPMENT AND METHOD FOR ASSISTED THREE DIMENSIONAL BEAMFORMING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01338E+12		105706376
5385	USER EQUIPMENT AND METHOD FOR ASSISTED THREE DIMENSIONAL BEAMFORMING	[redacted]	[redacted]	EPT	MTR-Closed	EP	138998539		3084982
5386	USER EQUIPMENT AND METHOD FOR ASSISTED THREE DIMENSIONAL BEAMFORMING	[redacted]	[redacted]	FPR	APP-Closed	HK	161128971		1224830
5387	USER EQUIPMENT AND METHOD FOR ASSISTED THREE DIMENSIONAL BEAMFORMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075322		WO2015/094155
5388	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5389	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5390	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077255		WO2014/158268
5391	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2015-528728		2015-527015
5392	COMMUNICATION OF PREFERRED POWER CONSUMPTION CONFIGURATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062172		WO2014/052751
5393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5394	DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST-ACKNOWLEDGEMENT (HARQ-ACK) TRANSMISSION WITH ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062132		WO2014/052730
5395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5396	DISCONTINUOUS RECEPTION (DRX) ENHANCEMENTS IN LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062210		WO2014/052774
5397	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5398	STREAMING WITH COORDINATION OF VIDEO ORIENTATION (CVO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/067054		WO2014/066887
5399	APPARATUS FOR RECEIVING RANGING SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	AU	2001290069		2001290069
5400	GPS RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	GB	230722	2367199	2367199
5401	APPARATUS FOR RECEIVING RANGING SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2001/004212		WO2002/025304
5402	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5403	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5404	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	GB	97851281	2329287	2329287
5405	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	JP	2011-526559	5646486	2012-503176
5406	A TIME REFERENCE SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2009/002231		WO2010/032014
5407	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5408	TEMPERATURE COMPENSATION IN A TELECOMMUNICATIONS DEVICE	[redacted]	[redacted]	EPT	MTR-Closed	GB	1072002448	2425532	2425532
5409	TEMPERATURE COMPENSATION IN A TELECOMMUNICATIONS DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2010/050693		WO2010/125388
5410	TEMPERATURE COMPENSATION IN A TELECOMMUNICATIONS DEVICE	[redacted]	[redacted]	PCT	MTR-Closed	US	13/266190	8693969	US-2012-0069871-A1
5411	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5412	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5413	HYBRID REFERENCE SIGNALS FOR WIRELESS COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074892		WO2014/175923
5414	PHYSICAL RESOURCE BLOCK (PRB)-RESTRICTED INTERFERENCE AVERAGING IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075139		WO2014/133642
5415	QUASI CO-LOCATION AND PDSCH RESOURCE ELEMENT MAPPING SIGNALING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075455		WO2014/133650
5416	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/078239		WO2015/084248
5417	MEASUREMENTS REPORT QUALITY OF POSITION VALIDATION UNDER MOBILE STATION-ASSISTED MODE OF OPERATION	[redacted]	[redacted]	PCT	APP-Closed	US	14/359401		US-2015-0338505-A1
5418	MOBILE-TERMINATED EMERGENCY CALL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075793		WO2015/094186
5419	ENODEB REFERENCE SIGNAL REDUCTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075463		WO2014/158255

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5420	LOW POWER DEVICE TO DEVICE TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075801		WO2014/158258
5421	LOW POWER DEVICE TO DEVICE TRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	TW	103111025	I532404	201446068
5422	USER EQUIPMENT HANDOVER ERROR REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077186		WO2015/094365
5423	REDUCTION OF BUFFER OVERFLOW	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075474		WO2014/182340
5424	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075470		WO2014/182339
5425	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032470		WO2014/182388
5426	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	TW	103115376	I573487	201509222
5427	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	14/787225		US-2016-0113050-A1
5428	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031972		WO2014/182393
5429	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	14754406O		2995057
5430	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031970		WO2014/182382
5431	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	US	14/784258		US-2016-0057636-A1
5432	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/037084		WO2014/182774
5433	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	103116395	I572233	201507508
5434	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	[redacted]	[redacted]	PCT	APP-Closed	US	14/782780		US-2016-0044690-A1
5435	SMALL DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075462		WO2014/182338
5436	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077497		WO2014/113193
5437	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074861		WO2014/185953
5438	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	[redacted]	[redacted]	NP	MTR-Closed	TW	103115834	I540872	201448538
5439	HYBRID DIGITAL AND ANALOG BEAMFORMING FOR LARGE ANTENNA ARRAYS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/074747		WO2014/193475
5440	NETWORK-LEVEL DEVICE PROXIMITY DETECTION	[redacted]	[redacted]	PCT	MTR-Closed	CN	201480006789X	ZL201480006789X	104956709
5441	NETWORK-LEVEL DEVICE PROXIMITY DETECTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	14756459S		2962482
5442	NETWORK-LEVEL DEVICE PROXIMITY DETECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/019290		WO2014/134408
5443	WIRELESS TRANSMISSION PRECODING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01388E+12		105052046
5444	WIRELESS TRANSMISSION PRECODING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/075161		WO2014/175928
5445	RSRP MOBILITY STATE ESTIMATION FOR CELLULAR DEVICE	[redacted]	[redacted]	EPT	APP-Closed	EP	13842856B		2901729
5446	RSRP MOBILITY STATE ESTIMATION FOR CELLULAR DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/062427		WO2014/052905
5447	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050736		WO2015/047570
5448	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5449	BANG-BANG TIME TO DIGITAL CONVERTER SYSTEMS AND METHODS	[redacted]	[redacted]	EPA	MTR-Closed	EP	151844644		3029832
5450	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105103648
5451	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032227		WO2014/175997
5452	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5453	DIAMETER/XML PROTOCOL CONVERSION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2015-7025773		10-2015-0121110
5454	DIAMETER/XML PROTOCOL CONVERSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032268		WO2014/175999
5455	WIRELESS INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072866		WO2014/089073
5456	WIRELESS INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072868		WO2014/089075
5457	PACKET DATA CONNECTIONS IN A WIRELESS COMMUNICATION SYSTEM USING A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/077231		WO2014/107358
5458	INFORMATION SIGNALLING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072872		WO2014/089079
5459	USE OF SCHEDULING REQUEST AND RANDOM ACCESS FOR LTE ADVANCED NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072886		WO2014/089080
5460	METHOD OF MAXIMUM LIKELIHOOD INTERFERENCE MITIGATION FOR PDSCH/EPDCCH	[redacted]	[redacted]	EPT	APP-Closed	EP	13860266B		2926485
5461	WIRELESS INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072887		WO2014/089091
5462	NOTIFICATION OF RECEIVER CAPABILITIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072912		WO2014/089110
5463	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5464	SELECTION OF ACKNOWLEDGMENT TIMING IN WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072908		WO2014/089107
5465	DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072890		WO2014/089093
5466	MEASUREMENT REPORTING IN D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2013/072891		WO2014/089094
5467	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5468	COMMUNICATION TERMINAL AND METHOD FOR DETERMINING A POWER SCALING FACTOR	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
5469	METHOD AND DEVICE FOR SIMPLE MEASUREMENT OF IM2 DISTORTION PRODUCTS	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
5470	METHODS AND DEVICES FOR DETERMINING INTERMODULATION DISTORTIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	104132704	I550598	201628344
5471	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5472	ACCESS POINT POSITION DETERMINATION BY MOBILE DEVICES CROWD SOURCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/015842		WO2015/133983
5473	COMMUNICATION DEVICE AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	EPA	MTR-Closed	EP	151923711		3032758
5474	COMMUNICATION DEVICE AND METHOD FOR RECEIVING A SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	TW	104136518	I550611	201628360
5475	APPARATUS FOR PROVIDING A CONTROL SIGNAL FOR A VARIABLE IMPEDANCE MATCHING CIRCUIT AND A METHOD THEREOF	[redacted]	[redacted]	NP	APP-Closed	US	14/885514		US-2016-0182096-A1
5476	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING POWER CONSUMPTION OF A COMMUNICATION TERMINAL	[redacted]	[redacted]	NP	MTR-Closed	TW	104131855	I577212	201628439
5477	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	NP	APP-Closed	US	14/141250		US-2014-0295849-A1
5478	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	EPT	MTR-Closed	EP	14774855S		2979493
5479	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031778		WO2014/160733
5480	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	[redacted]	[redacted]	NP	MTR-Closed	TW	103111449	I578807	201503721
5481	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	14874316A		3087680
5482	ADJACENT CHANNEL LEAKAGE REDUCTION IN SCALABLE WIRELESS COMMUNICATION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/063888		WO2015/099887
5483	HARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01488E+12	ZL201480010197S	105009481

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5484	NARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	147728505		2979372
5485	NARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	FPR	APP-Closed	HK	16105482.91	1216948	1216948
5486	NARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031868		WO2014/160788
5487	NARQ TIMING DESIGN FOR A TDD SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	103111466	I523450	201445917
5488	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5489	TIMING SYNCHRONIZATION IN DISCOVERY SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032284		WO2014/160982
5490	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	EPT	MTR-Closed	EP	147763288	2979413	2979413
5491	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032266		WO2014/160984
5492	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	NP	APP-Closed	US	14/141179		US-2014-0301354-A1
5493	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032855		WO2014/165690
5494	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	[redacted]	[redacted]	NP	MTR-Closed	TW	103112289	I575898	201507387
5495	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING SCALED TIME-TO-TRIGGER AND TIME-OF-STAY	[redacted]	[redacted]	NP	MTR-Closed	US	14/107947	9160519	US-2014-0302851-A1
5496	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING SCALED TIME-TO-TRIGGER AND TIME-OF-STAY	[redacted]	[redacted]	EPT	APP-Closed	EP	147786578		2982178
5497	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING SCALED TIME-TO-TRIGGER AND TIME-OF-STAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032697		WO2014/165603
5498	PATTERN INDICATOR SIGNAL FOR NEW DMRS PATTERN	[redacted]	[redacted]	EPT	APP-Closed	EP	147788168		2982058
5499	PATTERN INDICATOR SIGNAL FOR NEW DMRS PATTERN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032795		WO2014/165656
5500	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	CNT	APP-Closed	US	15/262348		US-2017-0064696-A1
5501	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.0148E+12	ZL201480011676	105122673
5502	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	EPT	MTR-Closed	EP	147790901		2982059
5503	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	FPR	APP-Closed	HK	161055111		1217580
5504	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032532		WO2014/165517
5505	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	NP	APP-Closed	US	14/181238		US-2014-0301270-A1
5506	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	147798821		2982147
5507	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5508	IDENTIFIERS FOR PROXIMITY SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032482		WO2014/165481
5509	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01486E+12	ZL201480014848	105009477
5510	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	EPT	MTR-Closed	EP	147780522		2982052
5511	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	FPR	APP-Closed	HK	161048264		1216946
5512	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032829		WO2014/165675
5513	NETWORK-ASSISTED TO DIRECT DEVICE DISCOVERY SWITCH	[redacted]	[redacted]	NP	MTR-Closed	TW	103112531	I538540	201446041
5514	EMERGENCY MOBILE ORIGINATED LOCATION REPORT	[redacted]	[redacted]	NP	APP-Closed	US	14/140732		US-2015-0189485-A1
5515	EMERGENCY MOBILE ORIGINATED LOCATION REPORT	[redacted]	[redacted]	NP	APP-Closed	CN	2.01411E+12		104754510
5516	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5517	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MMWAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-526295		2016-540422
5518	USER EQUIPMENT AND METHOD FOR CELL ASSOCIATION AND BEAMFORMING TRAINING WITH A MMWAVE CAPABLE SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/069791		WO2015/089305
5519	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5520	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
5521	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/033985		WO2014/176058
5522	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	CNT	APP-Closed	US	15/483831		US-2017-0244765-A1
5523	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01488E+12		105052109
5524	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	MTR-Closed	JP	2016-505623	6138349	2016-517234
5525	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCD	APP-Closed	JP	2017-086484		2017-135603
5526	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7001580		10-2017-0010448
5527	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/034337		WO2014/176085
5528	PROTOCOL FOR REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	NP	APP-Closed	US	14/499033		US-2016-0095016-A1
5529	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	MTR-Closed	SR	112017003870-6		112017003870-6
5530	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	EPT	MTR-Closed	EP	15757432.8		3198916
5531	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2017-7005104		10-2017-0036749
5532	REQUESTING EXTRA SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048813		WO2016/048534
5533	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01488E+12		105230053
5534	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	FPR	APP-Closed	HK	16107252.0		1219380
5535	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044640		WO2014/210503
5536	RESUMING PACKET SERVICES IN A MOBILE NETWORK	[redacted]	[redacted]	DIV	APP-Closed	TW	106129816		201811079
5537	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/034307		WO2014/176087
5538	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01488E+12		105340327
5539	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	147878748		2988830
5540	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	FPR	APP-Closed	HK	16108622.1		1220846
5541	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/034480		WO2014/176106
5542	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	103113700	I558214	201501498

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5543	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/035409		WO2014/176480
5544	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	NP	APP-Closed	US	14/135265		US-2014-0321369-A1
5545	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	147877765		2986734
5546	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/034968		WO2014/176285
5547	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	[redacted]	[redacted]	NP	MTR-Closed	TW	103113875	I578733	201507374
5548	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01488E+12	ZL201480019553	105009482
5549	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	[redacted]	[redacted]	EPT	MTR-Closed	EP	147740187		2979373
5550	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	[redacted]	[redacted]	FPR	APP-Closed	HK	161048282		1216947
5551	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031845		WO2014/160765
5552	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01488E+12		105103622
5553	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EP	147879878	2989829	2989829
5554	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	AT	147879878	2989829	2989829
5555	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	BE	147879878	2989829	2989829
5556	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	CH	147879878	2989829	2989829
5557	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	DE	147879878	2989829	2989829
5558	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	EE	147879878	2989829	2989829
5559	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	ES	147879878	2989829	2989829
5560	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	FR	147879878	2989829	2989829
5561	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GB	147879878	2989829	2989829
5562	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	GR	147879878	2989829	2989829
5563	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	HU	147879878	2989829	2989829
5564	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	IE	147879878	2989829	2989829
5565	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	NL	147879878	2989829	2989829
5566	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	EPT	MTR-Closed	SK	147879878	2989829	2989829
5567	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	FPR	APP-Closed	HK	161055077		1217852
5568	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/034879		WO2014/176200
5569	AN APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	103113697	I559790	201446026
5570	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5571	DEVICE AND METHOD FOR PUBLIC LAND MOBILE NETWORK SEARCHING	[redacted]	[redacted]	NP	APP-Closed	CN	2.01411E+12		104754700
5572	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/030072		WO2014/193718
5573	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5574	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/039313		WO2014/193749
5575	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	[redacted]	[redacted]	NP	MTR-Closed	TW	103118240	I556658	201511584
5576	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5577	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.01489E+12	ZL201480019992	105027488
5578	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	EPT	MTR-Closed	EP	147780746		2982055
5579	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	FPR	APP-Closed	HK	161049281		1216953
5580	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032797		WO2014/165657
5581	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	[redacted]	[redacted]	NP	MTR-Closed	TW	103112303	I513349	201446056
5582	PROGRESSIVE CHANNEL STATE INFORMATION	[redacted]	[redacted]	NP	APP-Closed	US	14/133215		US-2015-0003325-A1
5583	PROGRESSIVE CHANNEL STATE INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01488E+12		105264788
5584	PROGRESSIVE CHANNEL STATE INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	148174465		3014787
5585	PROGRESSIVE CHANNEL STATE INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044626		WO2014/210493
5586	MOVING AD HOC NETWORK SMALL CELL RELAY HANDOVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/071189		WO2015/095537
5587	METHOD FOR SELECTING AT LEAST ONE PARAMETER FOR DOWNLINK DATA TRANSMISSION WITH A MOBILE USER EQUIPMENT	[redacted]	[redacted]	EPT	APP-Closed	EP	148183239		3014788
5588	METHOD FOR SELECTING AT LEAST ONE PARAMETER FOR DOWNLINK DATA TRANSMISSION WITH A MOBILE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044540		WO2014/210441

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5589	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	NP	MTR-Closed	US	14/133538	9112585	US-2015-0171949-A1
5590	USER EQUIPMENT AND METHOD FOR PRECODING FOR MIMO CODEBOOK-BASED BEAMFORMING USING AN AUTOCORRELATION MATRIX FOR REDUCED QUANTIZATION NOISE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/068312		WO2015/094661
5591	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5592	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5593	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5594	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	EPT	APP-Closed	EP	14818558.4		3014781
5595	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044606		WO2014/210477
5596	SUBSPACE TRACKING IN FULL DIMENSION MIMO	[redacted]	[redacted]	NP	MTR-Closed	TW	103121919	I582211	201507391
5597	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	NP	APP-Closed	US	14/198865		US-2015-0257183-A1
5598	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5599	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7021053		10-2016-0105501
5600	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/014701		WO2015/134186
5601	METHOD AND DEVICE FOR INTERFERER SCHEDULING DETECTION AND NOISE AND INTERFERER PARAMETER ESTIMATION	[redacted]	[redacted]	NP	MTR-Closed	TW	104104391	I556592	201545491
5602	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5603	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12		1.02014E+11
5604	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	[redacted]	[redacted]	NP	MTR-Closed	TW	104122560	I590597	201616817
5605	METHOD AND DEVICE FOR PROCESSING RESOURCE BLOCKS	[redacted]	[redacted]	NP	MTR-Closed	TW	104105052	I562665	201545588
5606	ENVELOPE TRACKING PATH DELAY FINE TUNING AND CALIBRATION	[redacted]	[redacted]	NP	MTR-Closed	TW	104136321	I577139	201630357
5607	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032057		WO2014/160885
5608	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	EPT	MTR-Closed	HU	147760011	2979493	2979493
5609	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031464		WO2014/160611
5610	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/062790		WO2016/111769
5611	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-533248		2018-502503
5612	TECHNIQUES FOR ADJACENT CHANNEL INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032792		WO2014/165654
5613	PROXIMITY DETECTION IN A DEVICE TO DEVICE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/031836		WO2014/165365
5614	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/032032		WO2014/175990
5615	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5616	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	15770322.4		3123808
5617	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-QCI QOS-AWARE RADIO RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/017753		WO2015/148043
5618	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	EPT	MTR-Closed	EP	14788057.9		2989729
5619	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/033744		WO2014/175988
5620	METHOD APPARATUS AND NON-TRANSITORY COMPUTER READABLE MEDIA FOR UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	NP	MTR-Closed	TW	103111441	I539769	201507381
5621	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5622	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	[redacted]	[redacted]	PCT	APP-Closed	US	14/778985		US-2016-0057769-A1
5623	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5624	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	EPT	MTR-Closed	EP	15770278.6		3123810
5625	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/017483		WO2015/148034
5626	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	EPT	APP-Closed	EP	14797776.3		2997696
5627	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/037767		WO2014/186655
5628	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	NP	APP-Closed	US	14/225834		US-2015-0281303-A1
5629	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5630	ADAPTIVE MEDIA STREAMING	[redacted]	[redacted]	EPT	MTR-Closed	EP	15767873.1		3123694
5631	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5632	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5633	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5634	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5635	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5636	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5637	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5638	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5639	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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5640	[redacted]								
5641									
5642									
5643									
5644	ADAPTIVE MEDIA STREAMING			PCT	APP-Closed	WO	PCT/US2015/016494		WO2015/148016
5645	[redacted]								
5646	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION			EPT	MTR-Closed	EP	15768839		3123654
5647	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION			PCT	APP-Closed	WO	PCT/US2015/017747		WO2015/148041
5648	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL			NP	APP-Closed	US	14/226688		US-2015-0089382-A1
5649	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL			EPT	MTR-Closed	EP	148498959		3049955
5650	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL			PCT	APP-Closed	WO	PCT/US2014/053433		WO2015/047659
5651	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION			EPT	APP-Closed	EP	148179773		3014791
5652	TIME DIVISION DUPLEX (TDD) UPLINK DOWNLINK (UL-DL) RECONFIGURATION			PCT	APP-Closed	WO	PCT/US2014/044175		WO2014/210212
5653	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT			ETD	MTR-Closed	HU	161698441	3086602	3086602
5654	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT			EPT	MTR-Closed	HU	147725709	2979497	2979497
5655	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT			PCT	APP-Closed	WO	PCT/US2014/032053		WO2014/160882
5656	FAST RADIO LINK RECOVERY FOR LTE NETWORKS			EPT	MTR-Closed	EP	147802524		2982161
5657	FAST RADIO LINK RECOVERY FOR LTE NETWORKS			PCT	APP-Closed	WO	PCT/US2014/031633		WO2014/165346
5658	FAST RADIO LINK RECOVERY FOR LTE NETWORKS			NP	MTR-Closed	TW	103112121	I551163	201446028
5659	[redacted]								
5660	FAST RADIO LINK RECOVERY FOR LTE NETWORKS			PCT	APP-Closed	US	14/773295		US-2016-0014646-A1
5661	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES			PCT	APP-Closed	CN	2.01488E+12		105009682
5662	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES			PCT	APP-Closed	WO	PCT/US2014/031509		WO2014/165338
5663	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES			PCT	APP-Closed	WO	PCT/US2014/023022		WO2014/175967
5664	WEARABLE COMPUTING SYSTEM			NP	APP-Closed	US	14/225106		US-2015-0282227-A1
5665	WEARABLE COMPUTING SYSTEM			EPT	MTR-Closed	EP	157680505		3123812
5666	WEARABLE COMPUTING SYSTEM			PCT	APP-Closed	WO	PCT/US2015/016487		WO2015/148015
5667	QUEUEING MECHANISM FOR CLIENT-SIDE NETWORK TRAFFIC TO REDUCE RADIO POWER CONSUMPTION ON MOBILE CLIENTS			EPT	APP-Closed	EP	157687294		3123787
5668	QUEUEING MECHANISM FOR CLIENT-SIDE NETWORK TRAFFIC TO REDUCE RADIO POWER CONSUMPTION ON MOBILE CLIENTS			PCT	APP-Closed	WO	PCT/US2015/016791		WO2015/148022
5669	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK			EPT	APP-Closed	EP	148291578		3025441
5670	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK			DIV	APP-Closed	KR	10-2017-7032362		10-2017-0127549
5671	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK			PCT	APP-Closed	WO	PCT/US2014/047416		WO2015/013189
5672	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM			PCT	APP-Closed	WO	PCT/US2014/047417		WO2015/013190
5673	NETWORK COVERAGE HOLE DETECTION			EPT	MTR-Closed	EP	148297252		3025542
5674	NETWORK COVERAGE HOLE DETECTION			PCT	APP-Closed	WO	PCT/US2014/047421		WO2015/013192
5675	NETWORK COVERAGE HOLE DETECTION			NP	MTR-Closed	TW	103124393	I527475	201519668
5676	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Closed	CN	2.01488E+12		105165053
5677	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			EPT	APP-Closed	EP	147983985		2987358
5678	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			FPR	APP-Closed	HK	161067402		1218822
5679	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Closed	WO	PCT/US2014/031768		WO2014/186058
5680	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			DIV	APP-Closed	TW	105119971		201714479
5681	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK			CNT	APP-Closed	US	15/394728		US-2017-0111764-A1
5682	[redacted]								
5683	SYSTEMS METHODS AND DEVICES FOR IMPROVED INTER-FREQUENCY MEASUREMENT			PCT	APP-Closed	WO	PCT/US2015/013691		WO2015/116901
5684	[redacted]								
5685	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS			PCT	APP-Closed	WO	PCT/US2015/013282		WO2015/116678
5686	[redacted]								
5687	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL			PCT	APP-Closed	WO	PCT/US2015/013473		WO2015/116791
5688	[redacted]								
5689	[redacted]								
5690									
5691	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS			PCT	APP-Closed	WO	PCT/US2015/011889		WO2015/116412
5692	[redacted]								
5693	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/011516		WO2015/116393
5694	APPARATUS METHOD AND SYSTEM OF INTER-NODE COMMUNICATION			NP	MTR-Closed	TW	104101171	I530698	201542017
5695	[redacted]								
5696	MECHANISM FOR 256-QAM CAPABLE USER EQUIPMENT TO OPERATE SEAMLESSLY WITH A NODE			PCT	APP-Closed	WO	PCT/US2014/072145		WO2015/116335
5697	[redacted]								

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5698	[redacted]								
5699	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION			NP	APP-Closed	US	14/456725		US-2015-0223075-A1
5700	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION			PCT	APP-Closed	WO	PCT/US2015/013469		WO2015/116789
5701	[redacted]								
5702									
5703									
5704	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK			EPT	MTR-Closed	EP	157435637		3100483
5705	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK			PCT	APP-Closed	WO	PCT/US2015/011861		WO2015/116413
5706	[redacted]								
5707									
5708									
5709									
5710									
5711	[redacted]								
5712									
5713	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK			PCT	APP-Closed	WO	PCT/US2015/013541		WO2015/116829
5714	[redacted]								
5715	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	JP	2016-561998		2017-512035
5716	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION AND RESOURCE ALLOCATION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/013789		WO2015/116940
5717	[redacted]								
5718	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION			PCT	APP-Closed	WO	PCT/US2014/032246		WO2015/147876
5719	DYNAMIC SHARED ACCESS SPECTRUM SELECTION			PCT	APP-Closed	WO	PCT/US2015/022606		WO2015/148377
5720	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY			PCT	APP-Closed	WO	PCT/US2014/037316		WO2014/182931
5721	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY			PCT	APP-Closed	US	14/778198		US-2016-0157095-A1
5722	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING			EPT	MTR-Closed	EP	148178510		3014790
5723	USER EQUIPMENT AND METHOD FOR RESOURCE ALLOCATION AND DEVICE-TO-DEVICE DISCOVERY HOPPING			PCT	APP-Closed	WO	PCT/US2014/031996		WO2014/209451
5724	[redacted]								
5725	POWER SAVING AND DEVICE TRAFFIC OFFLOAD			EPT	MTR-Closed	EP	15768639		3123766
5726	POWER SAVING AND DEVICE TRAFFIC OFFLOAD			PCT	APP-Closed	WO	PCT/US2015/021156		WO2015/148448
5727	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS			PCT	APP-Closed	WO	PCT/US2014/044235		WO2014/210250
5728	[redacted]								
5729	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK			PCT	APP-Closed	WO	PCT/US2014/050101		WO2015/021250
5730	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			PCT	MTR-Closed	AU	2015218862	2015218862	2015218862
5731	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			PCT	MTR-Closed	BR	112016017055-5		112016017055-5
5732	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			CNT	APP-Closed	US	15/436778		US-2017-0302303-A1
5733	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			EPT	MTR-Closed	EP	157516980		3111605
5734	[redacted]								
5735	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			PCT	APP-Closed	WO	PCT/US2015/016794		WO2015/127187
5736	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			PCT	MTR-Closed	RU	2016130293	2644980	2016130293
5737	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER			NP	MTR-Closed	TW	104101667	I552534	201541876
5738	[redacted]								
5739	[redacted]								
5740	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK			PCT	APP-Closed	WO	PCT/US2015/016844		WO2015/127223
5741	[redacted]								
5742									
5743	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK			EPT	APP-Closed	EP	157518416		3111687
5744	ENHANCEMENT TO THE BUFFER STATUS REPORT FOR COORDINATED UPLINK GRANT ALLOCATION IN DUAL CONNECTIVITY IN AN LTE NETWORK			PCT	APP-Closed	WO	PCT/US2015/012392		WO2015/126564
5745	[redacted]								
5746									
5747	INTERFERENCE REDUCTION USING HYBRID SIGNALING			PCT	APP-Closed	WO	PCT/US2015/012507		WO2015/126588
5748	[redacted]								
5749	SCHEDULING FOR AN UNLICENSED CARRIER TYPE			PCT	APP-Closed	KR	10-2016-7019872		10-2016-0105818
5750	SCHEDULING FOR AN UNLICENSED CARRIER TYPE			PCT	APP-Closed	WO	PCT/US2015/012383		WO2015/126563
5751	[redacted]								
5752	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION			EPT	MTR-Closed	EP	157527219		3111720

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5753	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7020094		10-2016-0102519
5754	MECHANISMS TO OPTIMIZE AND ALIGN DISCONTINUOUS RECEPTION CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015619		WO2015/126725
5755	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5756	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01588E+12		106416115
5757	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PPR	APP-Closed	HK	171073163		1233798
5758	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	15751636O		3111582
5759	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-547066		2017-508361
5760	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/017235		WO2015/127424
5761	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5762	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	NP	APP-Closed	US	14/582998		US-2015-0245235-A1
5763	MEASUREMENT GAP PATTERNS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/012498		WO2015/126588
5764	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5765	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	FR	67126673	1595216	1595216
5766	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	NP	MTR-Closed	GB	3040557	2398650	2398650
5767	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-502302	4455580	2006-519429
5768	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2005-7015461	10-1067593	10-2005-0115885
5769	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2004/000673		WO2004/074963
5770	COMMUNICATIONS IN A PROCESSOR ARRAY	[redacted]	[redacted]	PCT	MTR-Closed	US	10/546616	7987340	US-2007-0083791-A1
5771	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	37803863	603075134	1573574
5772	SYNCHRONISATION OF SEMI-SYNCHRONOUS PROCESSING ELEMENTS	[redacted]	[redacted]	EPT	MTR-Closed	EP	37803863	1573574	1573574
5773	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	APP-Closed	ES	37803863	1573574	1573574
5774	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	APP-Closed	FI	37803863	1573574	1573574
5775	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	37803863	1573574	1573574
5776	ARRAY SYNCHRONIZATION	[redacted]	[redacted]	NP	MTR-Closed	GB	2297885	2396446	2396446
5777	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	APP-Closed	IT	37803863	1573574	1573574
5778	ARRAY SYNCHRONIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2003/005451		WO2004/057487
5779	SEMI-SYNCHRONOUS DEVICE ARRAY SYNCHRONIZATION	[redacted]	[redacted]	EPT	APP-Closed	SE	37803863	1573574	1573574
5780	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	[redacted]	[redacted]	EPA	MTR-Closed	EP	151943958		3041144
5781	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	TW	104137179	I593239	201631899
5782	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5783	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	MTR-Closed	TW	104138138	I583144	201631907
5784	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	APP-Closed	CN	2.00488E+12	ZL200480010721	1761954
5785	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	DE	47051115	6.02004E+12	1588276
5786	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	EP	47051115	1588276	1588276
5787	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	APP-Closed	ES	47051115	1588276	1588276
5788	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	APP-Closed	FI	47051115	1588276	1588276
5789	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	FR	47051115	1588276	1588276
5790	PROCESSOR ARRAY	[redacted]	[redacted]	NP	MTR-Closed	GB	3018627	2397668	2397668
5791	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	APP-Closed	IT	47051115	1588276	1588276
5792	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	MTR-Closed	JP	2006-502194	4336730	2006-518059
5793	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2004/000255		WO2004/068362
5794	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	APP-Closed	SE	47051115	1588276	1588276
5795	CONJUNTO ORDENADO DE PROCESADORES	[redacted]	[redacted]	EPT	MTR-Closed	ES	37651452	1535192	1535192
5796	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	FI	37651452	1535192	1535192
5797	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	FR	37651452	1535192	1535192
5798	PROCESSOR ARRAY	[redacted]	[redacted]	NP	MTR-Closed	GB	2168805	2391083	2391083
5799	PROCESSOR ARRAY	[redacted]	[redacted]	DIV	MTR-Closed	GB	5203468	2417586	2417586
5800	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	IT	37651452	1535192	1535192
5801	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	MTR-Closed	JP	2004-522285	4467430	2005-534091
5802	PROCESSOR ARRAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/GB2003/002772		WO2004/010321
5803	PROCESSOR ARRAY	[redacted]	[redacted]	EPT	MTR-Closed	SE	37651452	1535192	1535192
5804	PROCESSOR ARRAY	[redacted]	[redacted]	NP	MTR-Closed	TW	92118854	I314682	200417853
5805	METHOD AND DEVICE IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	JP	2010-128639	5728442	2010-283826
5806	A METHOD AND DEVICE IN A COMMUNICATIONS NETWORK	[redacted]	[redacted]	NP	MTR-Closed	KR	10-2010-0053303	10-1463478	10-2010-0131396
5807	POWER CONTROL ALGORITHM FOR A FEMTOCELL DEVICE	[redacted]	[redacted]	EPA	APP-Closed	EP	81679565		2056642
5808	POWER CONTROL	[redacted]	[redacted]	NP	MTR-Closed	GB	7217193	2454865	2454865
5809	ACCESSING A BASE STATION	[redacted]	[redacted]	NP	MTR-Closed	GB	11081056	2491098	2491098
5810	FILTER	[redacted]	[redacted]	NP	MTR-Closed	US	13/439679	9042434	US-2012-0258676-A1
5811	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5812	BEARER MOBILITY AND SPLITTING IN A RADIO ACCESS NETWORK BASED 3RD GENERATION PARTNERSHIP PROJECT NETWORK HAVING AN INTEGRATED WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015403		WO2015/138075
5813	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5814	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015160		WO2015/142543
5815	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5816	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015664		WO2015/138081
5817	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5818	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5819	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	MTR-Closed	EP	15761412A		3117683
5820	SYSTEMS AND METHODS FOR JOINT HANDOVER OF USER EQUIPMENT AND SECONDARY CELL GROUP IN 3GPP LTE DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015273		WO2015/138069
5821	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5822	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5823	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5824	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	EPT	APP-Closed	EP	157617515		3117648
5825	EFFICIENT COORDINATION BETWEEN A 3GPP NODE AND MTC DEVICES FOR COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015341		WO2015/138072
5826	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5827	UPLINK CHANNEL TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/020735		WO2015/139032
5828	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5829	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	NP	APP-Closed	US	14/582935		US-2015-0264552-A1
5830	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	AU	2015229966		2015229966
5831	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015454		WO2015/138078
5832	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5833	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	NP	APP-Closed	US	14/581216		US-2015-0215220-A1
5834	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5835	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	EPT	MTR-Closed	EP	157612399		3117657
5836	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/019338		WO2015/138265
5837	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5838	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	APP-Closed	AU	2015229973		2015229973
5839	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	CNT	APP-Closed	US	15/682878		US-2017-0353848-A1
5840	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	HU	157616236	3117673	3117673
5841	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-549544		2017-513996
5842	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015700		WO2015/138083
5843	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5844	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5845	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	EPT	APP-Closed	EP	157611922		3117651
5846	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	FPR	APP-Closed	HK	1710715A8		1233822
5847	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015505		WO2015/138077
5848	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5849	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	EPT	MTR-Closed	EP	157612671		3117686
5850	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015778		WO2015/138084
5851	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5852	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	EPA	MTR-Closed	EP	151939568		3043602
5853	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	[redacted]	[redacted]	NP	MTR-Closed	TW	104136666	I568304	201632025
5854	METHODS AND DEVICES FOR CHANNEL ESTIMATION AND OFDM RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	CN	2.01511E+12	ZL201510220793.2	105282060
5855	METHODS AND DEVICES FOR CHANNEL ESTIMATION AND OFDM RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	TW	104112403	I575908	201603521
5856	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5857	FINE TIMING MEASUREMENT BURST MANAGEMENT	[redacted]	[redacted]	NP	MTR-Closed	TW	104134267	I550300	201539017
5858	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5859	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015635		WO2015/138438
5860	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5861	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/016643		WO2015/142469
5862	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5863	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5864	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH OPERATION OF AN EVOLVED NODE B AT MULTIPLE COVERAGE ENHANCEMENT LEVELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/013320		WO2015/147982
5865	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5866	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	AU	2015236330		2015236330
5867	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	AU	2018202590		2018202590
5868	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5869	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	15769823.4		3123756
5870	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022125		WO2015/148434
5871	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	RU	2016134557	2683159	
5872	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	US	15/121059		US-2016-0366707-A1
5873	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5874	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016018917-6		112016018917-6
5875	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	EPT	MTR-Closed	EP	15769260.9		3123769
5876	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/020437		WO2015/148158
5877	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5878	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Closed	AU	2015236234		2015236234
5879	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7022956		10-2016-0114099
5880	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022150		WO2015/148587
5881	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5882	REDUCTION OF USER PLANE CONGESTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	14859471.3		3085784
5883	REDUCTION OF USER PLANE CONGESTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/039116		WO2014/193723
5884	SIGNALING MESSAGE SYNCHRONIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/047425		WO2015/013193
5885	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	[redacted]	[redacted]	EPT	APP-Closed	EP	14830039.5		3025546
5886	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/065903		WO2015/013038
5887	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	CNT	APP-Closed	US	15/489451		US-2017-0286761-A1
5888	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	EPT	APP-Closed	EP	14833905.4		3031290
5889	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050031		WO2015/021214
5890	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044629		WO2015/020738
5891	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/048256		WO2015/013650
5892	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCT	APP-Closed	CN	201480038873X		105379316
5893	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	FPR	APP-Closed	HK	16105982.52		1222282
5894	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050207		WO2015/021315
5895	USER EQUIPMENT REALLOCATION BETWEEN NODES	[redacted]	[redacted]	EPT	APP-Closed	EP	14833913.8		3031252
5896	USER EQUIPMENT REALLOCATION BETWEEN NODES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/049560		WO2015/020937
5897	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5898	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050373		WO2015/021399
5899	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105359606
5900	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	FPR	APP-Closed	HK	16108959.4		1221109
5901	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050128		WO2015/021267
5902	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105359615
5903	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	FPR	APP-Closed	HK	16108861.0		1221110
5904	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050167		WO2015/021276
5905	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	CNT	APP-Closed	US	15/424429		US-2017-0245213-A1
5906	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5907									
5908	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050159		WO2015/021284
5909	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016024041-3		112016024041-3
5910	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	15793597.4		3155834
5911	LICENSED SHARED ACCESS FOR LONG TERM EVOLUTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/029936		WO2015/175134

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5912	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016023907-5		112016023907-5
5913	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS			EPT	APP-Closed	EP	15752365?		3143880
5914	REDUCED HANDOVER LATENCY FOR LICENSED SHARED ACCESS			PCT	APP-Closed	WO	PCT/US2015/025954		WO2015/175135
5915	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS			PCT	MTR-Closed	BR	112016024928-3		112016024928-3
5916	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS			EPT	APP-Closed	EP	15803554?		3149997
5917	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS			PCT	APP-Closed	JP	2016-569856		2017-521909
5918	ADAPTIVE QUALITY OF SERVICE FOR WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2015/028442		WO2015/187269
5919	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS			PCT	MTR-Closed	BR	112016026307-3		112016026307-3
5920	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS			EPT	APP-Closed	EP	15810453?		3158802
5921	IDLE MODE CELL SELECTION FOR LICENSED SHARED ACCESS			PCT	APP-Closed	WO	PCT/US2015/031488		WO2015/195260
5922	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/048110		WO2015/013567
5923	TECHNIQUES FOR A DEVICE TRIGGER RECALL/REPLACE PROCEDURE			PCT	APP-Closed	WO	PCT/US2015/010309		WO2015/103604
5924	[redacted]			[redacted]	[redacted]	[redacted]	[redacted]		
5925	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY			EPT	MTR-Closed	EP	148291875		3025445
5926	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY			PCT	APP-Closed	WO	PCT/US2014/048136		WO2015/013580
5927	EVOLVED NODE B AND USER EQUIPMENT WITH EFFICIENT SMALL CELL DISCOVERY AND STORAGE MEDIA THEREOF	[redacted]	[redacted]	NP	MTR-Closed	TW	103124910	I556667	201521483
5928	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5929	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105474683
5930	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	FPR	APP-Closed	HK	161106432		1222501
5931	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056035		WO2015/042137
5932	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056003		WO2015/042100
5933	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050214		WO2015/021320
5934	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	CNT	APP-Closed	US	15/823753		US-2018-0084398-A1
5935	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050209		WO2015/021317
5936	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5937	EARLY TTI TERMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055517		WO2015/041963
5938	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5939	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055513		WO2015/041959
5940	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5941	DRX OPERATION FOR UL/DL RECONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/048954		WO2015/041754
5942	HIGH-SPEED DIGITAL SIGNAL PROCESSING SYSTEMS	[redacted]	[redacted]	EPA	MTR-Closed	EP	15154800?		3038260
5943	HIGH-SPEED DIGITAL SIGNAL PROCESSING SYSTEMS	[redacted]	[redacted]	NP	MTR-Closed	TW	104137530	I577135	201631898
5944	COMMUNICATIONS IN AN AD-HOC MULTICAST NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/044135		WO2014/210185
5945	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/047428		WO2015/013194
5946	SERVER AND USER EQUIPMENT OF ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY AND COMPUTER PROGRAM PRODUCT THEREOF	[redacted]	[redacted]	NP	MTR-Closed	TW	103125303	I552634	201517577
5947	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5948	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/049939		WO2015/021152
5949	DELIVERY OF TARGETED MEDIA CONTENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056014		WO2015/042106
5950	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055751		WO2015/042004
5951	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	NP	APP-Closed	US	14/486651		US-2015-0078154-A1
5952	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055939		WO2015/042069
5953	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056242		WO2015/047654
5954	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050220		WO2015/047556
5955	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056731		WO2015/047565
5956	EMERGENCY CALL HANDLING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057448		WO2015/060986
5957	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056247		WO2015/047858
5958	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057464		WO2015/048287
5959	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5960	HARQ TIMELINES FOR TDDFDD CARRIER AGGREGATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	148475577		3050227
5961	HARQ TIMELINES FOR TDD-FDD CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/051218		WO2015/047580
5962	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5963	SYSTEMS METHODS AND DEVICES TO SUPPORT INTRA-APPLICATION FLOW PRIORITIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/032852		WO2015/199882
5964	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	157570912		3198741
5965	SCHEDULING IN A MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE OUTPUT COMMUNICATIONS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/045734		WO2016/048484
5966	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	NP	APP-Closed	US	14/315551		US-2015-0109997-A1
5967	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056894		WO2015/060971
5968	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	NP	APP-Closed	US	14/494161		US-2015-0111581-A1
5969	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	EPT	APP-Closed	EP	148512292		3061277
5970	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-544361		2016-534682
5971	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	PCD	APP-Closed	KR	10-2017-7032441		10-2017-0127058
5972	MOBILITY INFORMATION REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057486		WO2015/060987

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
5973	SYSTEMS METHODS AND DEVICES FOR CONTROLLING TRANSPORT OF RATELESSLY CODED MESSAGES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/061780		WO2015/080817
5974	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055835		WO2015/085608
5975	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056115		WO2015/060959
5976	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	[redacted]	[redacted]	NP	APP-Closed	US	14/348639		US-2015-0109972-A1
5977	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/056113		WO2015/060958
5978	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5979	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-569391		2017-525180
5980	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7032241		10-2016-0146874
5981	USER EQUIPMENT POSITIONING IN LONG-TERM EVOLUTION COORDINATED MULTIPOINT COMMUNICATION SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2014/080672		WO2015/196376
5982	FEEDBACK CONTROL DURING PLANNED GAPS IN DATA STREAMS	[redacted]	[redacted]	EPT	APP-Closed	EP	15811507.1		3161980
5983	FEEDBACK CONTROL DURING PLANNED GAPS IN DATA STREAMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034030		WO2015/199928
5984	TCP TRAFFIC ADAPTATION IN WIRELESS SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/064422		WO2015/080853
5985	GENERATION OF RANDOM ACCESS PREAMBLES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/053461		WO2015/041838
5986	THROUGHPUT CHARACTERIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/037355		WO2014/182938
5987	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO-ANALOG CONVERTER BASED POWER AMPLIFIER	[redacted]	[redacted]	NP	MTR-Closed	TW	104137176	I575869	201637356
5988	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016021301-7		112016021301-7
5989	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-502956		2017-514418
5990	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/027471		WO2015/164712
5991	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION	[redacted]	[redacted]	PCT	APP-Closed	US	15/116040		US-2017-0188273-A1
5992	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5993	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	[redacted]	[redacted]	EPA	MTR-Closed	EP	15195269.2		3038259
5994	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	NP	APP-Closed	US	14/583731		US-2015-0312697-A1
5995	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	15785425		3138354
5996	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/026549		WO2015/167677
5997	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5998	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
5999	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	EPT	MTR-Closed	EP	15786643		3138326
6000	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/019999		WO2015/167673
6001	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6002	SOLUTION TO SKIP AUTHENTIFICATION PROCEDURE DURING CIRCUIT SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	MTR-Closed	AU	2015253709	2015253709	2015253709
6003	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT SWITCHED FALLBACK (CSFB) TO SHORTEN THE CALL SETUP TIME	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016021708-0		112016021708-0
6004	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT-SWITCHED FALLBACK (CSFB) TOSHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	MTR-Closed	CA	2940200		2940200
6005	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT- SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	EPT	MTR-Closed	EP	15786183.2		3138310
6006	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6007	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT-SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	APP-Closed	IN	2.01647E+11		2.01647E+11
6008	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT- SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	APP-Closed	MX	MX/a/2016/011261		MX/a/2016/011261
6009	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6010	SOLUTION TO SKIP AUTHENTIFICATION PROCEDURE DURING CIRCUIT-SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022360		WO2015/167720
6011	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT SWITCHED FALLBACK (CSFB) TO SHORTEN THE CALL SETUP TIME	[redacted]	[redacted]	PCT	MTR-Closed	RU	2016138433	2644386	
6012	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT-SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	[redacted]	[redacted]	PCT	APP-Closed	US	15/119856		US-2017-0064584-A1
6013	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6014	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6015	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6016	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	EPT	MTR-Closed	EP	15786372.1		3138227
6017	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022869		WO2015/167714
6018	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6019	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6020	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6021	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/071166		WO2015/167617
6022	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6023	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6024	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCD	APP-Closed	JP	2017-128120		2017-200226
6025	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022399		WO2015/167700
6026	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6027	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6028	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	157853078		3138350
6029	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7026855		10-2016-0127785
6030	LISTEN BEFORE TALK PROTOCOL SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/027811		WO2015/168028
6031	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6032	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6033	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	EPT	MTR-Closed	EP	157866542		3138332
6034	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/019994		WO2015/167672
6035	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6036	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016021684-9		112016021684-9
6037	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6038	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	EPT	MTR-Closed	EP	157863341		3136325
6039	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022169		WO2015/167697
6040	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6041	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	MTR-Closed	AU	2015253785	2015253785	2015253785
6042	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6043	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	MTR-Closed	CA	2939818		2939818
6044	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	EPT	MTR-Closed	EP	157863770		3136342
6045	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/023692		WO2015/167707
6046	CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	[redacted]	[redacted]	PCT	MTR-Closed	RU	2016138442	2656094	2016138442
6047	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6048	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	AU	2015253802		2015253802
6049	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-559208		2017-515350
6050	SYSTEM AND METHOD TO MEASURE AN ERROR RATE OF A WIRELESS LOCAL AREA NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/014249		WO2015/167634
6051	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6052	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6053	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	EPT	MTR-Closed	EP	157864117		3138347
6054	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/027710		WO2015/167981
6055	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6056	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6057	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6058	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/014368		WO2015/142433
6059	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6060	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	AU	2015231880	2015231880	2015231880
6061	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6062	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	CA	2939146		2939146
6063	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	EPT	MTR-Closed	EP	157645895		3120481
6064	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	PCT	APP-Closed	MX	MX/a/2016/010304		MX/a/2016/010304
6065	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/015453		WO2015/142553
6066	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	RU	2016134135	2656686	2016134135
6067	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	[redacted]	[redacted]	NP	MTR-Closed	TW	104105831	I590613	201547231
6068	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6069	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6070	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	157864448		3138339
6071	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/023223		WO2015/167728
6072	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	104108951	I577223	201605273
6073	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6074	RADIO COMMUNICATION DEVICE AND METHOD FOR OPERATION THEREOF	[redacted]	[redacted]	NP	MTR-Closed	TW	104137346	I578833	201632014
6075	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6076	[redacted]								
6077	[redacted]								
6078	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			EPT	MTR-Closed	EP	15788839S		3141021
6079	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS			PCT	APP-Closed	WO	PCT/US2015/024896		WO2015/171249
6080	[redacted]								
6081	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			NP	APP-Closed	US	14/583283		US-2015-0327104-A1
6082	[redacted]								
6083	[redacted]								
6084	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			EPT	MTR-Closed	EP	157886987		3141030
6085	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			PCT	APP-Closed	KR	10-2016-7027589		10-2016-0130286
6086	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY			PCT	APP-Closed	WO	PCT/US2015/025186		WO2015/171253
6087	[redacted]								
6088	DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCE DESIGN FOR DEVICE-TO-DEVICE (D2D) DISCOVERY			NP	APP-Closed	US	14/669823		US-2015-0326362-A1
6089	[redacted]								
6090	[redacted]								
6091	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			EPT	MTR-Closed	EP	157886367		3141045
6092	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES			PCT	APP-Closed	WO	PCT/US2015/025189		WO2015/171254
6093	[redacted]								
6094	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			EPT	MTR-Closed	EP	157896374		3141069
6095	TENTATIVE GRANT FOR EFFICIENT DEVICE TO DEVICE COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2015/024948		WO2015/171245
6096	[redacted]								
6097	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			PCT	MTR-Closed	BR	112016023332-8		112016023332-8
6098	[redacted]								
6099	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			EPT	MTR-Closed	EP	157891201		3140938
6100	SYSTEMS AND METHODS FOR IN-DEVICE CO-EXISTENCE INTERFERENCE AVOIDANCE FOR DUAL CONNECTIVITY			PCT	APP-Closed	WO	PCT/US2015/025190		WO2015/171255
6101	[redacted]								
6102	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	AU	2015256590		2015256590
6103	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	JP	2016-561824		2017-511078
6104	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/025387		WO2015/171261
6105	[redacted]								
6106	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS			PCT	APP-Closed	WO	PCT/US2015/029450		WO2015/171750
6107	[redacted]								
6108	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION			EPT	APP-Closed	EP	157887944		3141027
6109	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION			PCT	APP-Closed	KR	10-2016-7027892		10-2016-0131077
6110	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/024878		WO2015/171242
6111	[redacted]								
6112	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS			PCT	MTR-Closed	BR	112016023284-8		112016023284-8
6113	[redacted]								
6114									
6115	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS			EPT	MTR-Closed	EP	157898370		3141019
6116	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS			PCT	APP-Closed	WO	PCT/US2015/024806		WO2015/171237
6117	[redacted]								
6118	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD			PCT	APP-Closed	WO	PCT/US2015/029953		WO2015/172061
6119	[redacted]								
6120	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES			PCT	MTR-Closed	BR	112016023311-5		112016023311-5
6121	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES			PCT	APP-Closed	JP	2017-510486		2017-517226
6122	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES			PCT	APP-Closed	WO	PCT/US2015/029830		WO2015/171984
6123	[redacted]								
6124	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS			NP	APP-Closed	US	14/681508		US-2015-0327322-A1
6125	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS			PCT	MTR-Closed	BR	112016023604-1		112016023604-1

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7	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8126	[redacted]								
8127	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS			EPT	MTR-Closed	EP	15788627.2		3141083
8128	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS			PCT	APP-Closed	WO	PCT/US2015/027116		WO2015/171318
8129	[redacted]								
8130	[redacted]								
8131	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS			EPT	MTR-Closed	EP	15789674.7		3141031
8132	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS			PCT	APP-Closed	WO	PCT/US2015/024601		WO2015/171221
8133	[redacted]								
8134	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS			PCT	MTR-Closed	BR	112016023637-8		112016023637-8
8135	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS			EPT	MTR-Closed	EP	15789782.8		3141030
8136	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2015/025431		WO2015/171262
8137	[redacted]								
8138	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)			PCT	APP-Closed	WO	PCT/US2015/029740		WO2015/171928
8139	[redacted]								
8140	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING			PCT	APP-Closed	MX	MX/A/2016/013206		MX/A/2016/013206
8141	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING			PCT	APP-Closed	WO	PCT/US2015/027123		WO2015/171320
8142	[redacted]								
8143	METHOD FOR DETERMINING A CHANNEL ESTIMATE AND COMMUNICATION DEVICE			EPA	MTR-Closed	EP	15182085.9		3001622
8144	METHOD FOR DETERMINING A CHANNEL ESTIMATE AND COMMUNICATION DEVICE			NP	MTR-Closed	TW	104127011	I590624	201622389
8145	[redacted]								
8146	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS			EPT	APP-Closed	EP	15870560.8		3235288
8147	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/060597		WO2016/099728
8148	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS			NP	MTR-Closed	TW	104137728	I587728	201632015
8149	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	CN	2.01488E+12		105493616
8150	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION			FPR	APP-Closed	HK	16111748.4		1223763
8151	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2014/056316		WO2015/047866
8152	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS			EPT	MTR-Closed	EP	14857392.6		3064003
8153	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS			PCT	APP-Closed	WO	PCT/US2014/056909		WO2015/065619
8154	CIRCUIT SWITCHED FALL BACK IMPROVEMENTS			PCT	APP-Closed	WO	PCT/US2015/043851		WO2016/032712
8155	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION			PCT	APP-Closed	WO	PCT/US2014/057446		WO2015/048277
8156	COMMUNICATION SYSTEMS AND METHODS			PCT	MTR-Closed	BR	112016024921-6		112016024921-6
8157	COMMUNICATION SYSTEMS AND METHODS			PCT	MTR-Closed	CA	2947762		2947762
8158	COMMUNICATION SYSTEMS AND METHODS			EPT	APP-Closed	EP	15803049.4		3150024
8159	COMMUNICATION SYSTEMS AND METHODS			PCT	APP-Closed	WO	PCT/US2015/031513		WO2015/187357
8160	COMMUNICATION SYSTEMS AND METHODS			PCT	APP-Closed	RU	2016148196		2016148196
8161	[redacted]								
8162	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			PCT	MTR-Closed	BR	112016024987-9		112016024987-9
8163	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	EP	15803303.5	3152954	3152954
8164	[redacted]								
8165	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	BE	15803303.5	3152954	3152954
8166	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	CH	15803303.5	3152954	3152954
8167	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	DE	15803303.5	3152954	3152954
8168	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	IE	15803303.5	3152954	3152954
8169	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	ES	15803303.5	3152954	3152954
8170	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	FR	15803303.5	3152954	3152954
8171	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES			EPT	MTR-Closed	GB	15803303.5	3152954	3152954

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6172	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	GR	15803303S	3152954	3152954
6173	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	HU	15803303S	3152954	3152954
6174	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	IE	15803303S	3152954	3152954
6175	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	NL	15803303S	3152954	3152954
6176	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	SK	15803303S	3152954	3152954
6177	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-568431		2017-523634
6178	RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/028634		WO2015/187276
6179	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6180	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016025451-1		112016025451-1
6181	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	15802415S		3152952
6182	INTERWORKING/CO-EXISTENCE OF INTEGRATED WLAN/3GPP RAT ARCHITECTURES WITH LEGACY WLAN/3GPP INTERWORKING SOLUTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/028863		WO2015/187288
6183	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6184	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6185	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7030741		10-2016-0140916
6186	IN-BAND CONTROL SIGNALING FOR INTEGRATED WLAN/3GPP RAT ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/028864		WO2015/187289
6187	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6188	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	EPT	MTR-Closed	EP	14876S144		3092866
6189	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7014853		10-2016-0082694
6190	AUTONOMOUS ENHANCED NODE B	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/068847		WO2015/102811
6191	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	CNT	APP-Closed	US	15/185994		US-2016-0302089-A1
6192	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105993189
6193	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6194	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	FPR	APP-Closed	HK	171016118		1228164
6195	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/068888		WO2015/102812
6196	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02015E+12		1.02015E+11
6197	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	[redacted]	[redacted]	NP	MTR-Closed	TW	104127612	I589138	201622390
6198	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105637972
6199	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	FPR	APP-Closed	HK	161125992		1224489
6200	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/057212		WO2015/060977
6201	METHOD AND DEVICE FOR ITERATIVE DECODING A DATA TRANSFER STRUCTURE	[redacted]	[redacted]	NP	APP-Closed	US	14/449554		US-2016-0036468-A1
6202	CONTROLLING SUBSCRIBER IDENTITY MODULE (SIM) ACTIVE STATE IN A MULTIPLE SIMs RADIO	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02015E+12		1.02015E+11
6203	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A DATA TRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	TW	104123773	I573475	201615046
6204	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6205	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	EPT	APP-Closed	EP	15811062?		3158671
6206	USER EQUIPMENT AND METHODS FOR CSI ENHANCEMENTS USING INTERFERENCE CANCELLATION AND SUPPRESSION RECEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/033534		WO2015/199869
6207	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6208	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0158E+12		106464351
6209	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	FPR	APP-Closed	HK	171070013		1233389
6210	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	EPT	APP-Closed	EP	15812822?		3158663
6211	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-5?9393		2017-520980
6212	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7032782		10-2016-0147907
6213	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034141		WO2015/199932
6214	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6215	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	EPT	APP-Closed	EP	15812183?		3158826
6216	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-518533		2017-525309

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8217	COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/033392		WO2015/199902
8218	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8219	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8220	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-571022		2017-523648
8221	GROUP CARRIER SCHEDULING FOR UNLICENSED LONG TERM EVOLUTION NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/035146		WO2015/003618
8222	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8223	METHOD APPARATUS AND SYSTEM FOR USING A USER EQUIPMENT AS A SMALL EVOLVED NODEB FOR A SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2014/088741		WO2016/058161
8224	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038864		WO2016/003818
8225	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8226	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8227	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8228	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016027446-6		112016027446-6
8229	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	EPT	APP-Closed	EP	15814631 6		3162011
8230	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038010		WO2016/003805
8231	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8232	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016028184-5		112016028184-5
8233	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	EPT	MTR-Closed	EP	15815068 0		3162105
8234	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/037576		WO2016/003750
8235	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8236	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/058058		WO2015/021229
8237	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8238	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-516884		2017-531369
8239	METHOD AND APPARATUS FOR VOICE DATA TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/046823		WO2016/048542
8240	POWER SAVING TECHNIQUES FOR eMBMS	[redacted]	[redacted]	NP	APP-Closed	US	14/583656		US-2016-0192294-A1
8241	POWER SAVING TECHNIQUES FOR eMBMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/064579		WO2016/105964
8242	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	[redacted]	[redacted]	EPA	MTR-Closed	EP	15154776 9		3035545
8243	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	[redacted]	[redacted]	NP	MTR-Closed	TW	104137184	I578718	201631910
8244	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8245	NETWORK MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/050289		WO2015/021357
8246	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Closed	EP	14858379 2		3064001
8247	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057865		WO2015/065631
8248	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	15/022893		US-2016-0227496-A1
8249	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057896		WO2015/065632
8250	CONTENT DISTRIBUTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/046821		WO2016/048540
8251	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/062611		WO2015/066123
8252	SYMBOL CONSTELLATION DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/061160		WO2016/099756
8253	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	EPT	APP-Closed	EP	15844533 6		3198938
8254	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-509019		2017-526281
8255	HANDOVER AT SPECTRUM RELEASE FOR LICENSED SHARED ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048431		WO2016/048620
8256	POWER ADAPTION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]	[redacted]	NP	APP-Closed	US	14/495738		US-2016-0088573-A1
8257	POWER ADAPTION AND RANDOMIZATION FOR INTERFERENCE CANCELATION AND MITIGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/042068		WO2016/048443
8258	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8259	PRINCIPAL EIGEN BEAM QUANTIZATION FOR MIMO SYSTEMS	[redacted]	[redacted]	EPT	APP-Closed	EP	15756720 7		3175558
8260	PRINCIPAL EIGEN BEAM QUANTIZATION FOR MIMO SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/044737		WO2016/011461
8261	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8262	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016027957-3		112016027957-3
8263	DEVICES FOR PACKET SYSTEM BEARER SPLITTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/039330		WO2016/007478
8264	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8265	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]	[redacted]	PCT	APP-Closed	AU	2014355101		2014355101
8266	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-534213		2016-540486
8267	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7010977		10-2016-0065139
8268	SIGNAL DESIGNS FOR D2D SUBFRAMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/064430		WO2015/080853
8269	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]	[redacted]	EPT	APP-Closed	EP	15842955 30		3195657
8270	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-513722		2017-532856
8271	ABORTING AN EXTENDED SERVICE REQUEST PROCEDURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/041179		WO2016/043840
8272	RADIO LINK MONITORING	[redacted]	[redacted]	EPT	APP-Closed	EP	14866014 8		3075188
8273	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7010395		10-2016-0080122
8274	RADIO LINK MONITORING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/065072		WO2015/080661
8275	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010295		WO2015/103596

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8276	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-543700		2017-505044
8277	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010298		WO2015/103598
8278	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/064426		WO2015/102747
8279	SYSTEM AND METHOD FOR CONTROLLING A LICENSED SHARED ACCESS RADIO	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/014776		WO2016/070287
8280	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038657		WO2016/004102
8281	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8282	COORDINATION TECHNIQUES FOR RADIO RESOURCE CONTROL STATE MANAGEMENT IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/067826		WO2015/081324
8283	COORDINATION TECHNIQUES FOR DISCONTINUOUS RECEPTION (DRX)OPERATIONS IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	EPT	APP-Closed	EP	14865415S		3075186
8284	COORDINATION TECHNIQUES FOR DISCONTINUOUS RECEPTION (DRX) OPERATIONS IN DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/067824		WO2015/081322
8285	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010271		WO2015/103588
8286	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	NP	APP-Closed	US	14/498441		US-2015-0195056-A1
8287	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8288	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-534719		2017-500793
8289	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7014593		10-2016-0083041
8290	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010235		WO2015/103579
8291	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010326		WO2015/103612
8292	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	[redacted]	[redacted]	NP	MTR-Closed	TW	104100269	I551078	201532402
8293	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	EPT	MTR-Closed	EP	157332503	3092850	3092850
8294	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010360		WO2015/103631
8295	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	[redacted]	[redacted]	NP	MTR-Closed	TW	104100271	I551158	201540089
8296	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010358		WO2015/103630
8297	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	[redacted]	[redacted]	NP	APP-Closed	US	14/496894		US-2015-0195849-A1
8298	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010370		WO2015/103632
8299	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010354		WO2015/103628
8300	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010374		WO2015/103635
8301	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010385		WO2015/103644
8302	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/010353		WO2015/103627
8303	STRUCTURED SUPER-POSITION CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	EPT	APP-Closed	EP	158435073		3198819
8304	STRUCTURED SUPER-POSITION CODING TO ENHANCE CONTROL CHANNEL CAPACITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/047476		WO2016/048580
8305	OPTIMIZING SYNCHRONIZATION OF AUDIO AND NETWORK TASKS IN VOICE OVER PACKET SWITCHED NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/050503		WO2016/053630
8306	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055848		WO2015/042038
8307	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	[redacted]	[redacted]	CNT	APP-Closed	US	15/420871		US-2017-0142688-A1
8308	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/063456		WO2016/099889
8309	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/061498		WO2015/065761
8310	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/060511		WO2015/065791
8311	WIFI VIRTUAL CARRIER SENSE FOR LTE/WIFI CO-CHANNEL COORDINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/057619		WO2015/080798
8312	WIFI VIRTUAL CARRIER SENSE FOR LTE/WIFI CO-CHANNEL COORDINATION	[redacted]	[redacted]	PCT	APP-Closed	US	15/022534		US-2017-0006632-A1
8313	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8314	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US201A/063080		WO2015/066281
8315	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/062533		WO2015/065947
8316	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	[redacted]	[redacted]	PCT	APP-Closed	US	14/917451		US-2016-0227580-A1
8317	SIGNALLING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCD	APP-Closed	JP	2017-227978		2018-067937
8318	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7004885		10-2016-0039235
8319	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/061569		WO2015/065768
8320	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	MTR-Closed	SR	112016006844-0		112016006844-0
8321	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	EPT	APP-Closed	EP	14858866Z		3068013
8322	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8323	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/062349		WO2015/065881
8324	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A CELL RESELECTION	[redacted]	[redacted]	NP	MTR-Closed	TW	104122046	I575974	201628838

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6325	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	[redacted]	[redacted]	EPT	APP-Closed	EP	148462799		3047599
6326	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/055837		WO2015/042035
6327	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/033546		WO2015/187565
6328	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6329	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016030002-5		112016030002-5
6330	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6331	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034957		WO2016/014158
6332	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6333	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	NP	APP-Closed	US	14/689176		US-2015-0349929-A1
6334	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	158036723		3149876
6335	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-570253		2017-523641
6336	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7030577		10-2016-0138717
6337	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/033677		WO2015/187623
6338	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6339	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6340	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	15824541S		3172935
6341	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/036327		WO2016/014179
6342	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6343	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016030351-2		112016030351-2
6344	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/037735		WO2016/018542
6345	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6346	APPARATUS COMPUTER-READABLE MEDIUM AND METHOD TO DETERMINE A USER EQUIPMENT LOCATION IN A CELLULAR NETWORK USING SIGNALS FROM A WIRELESS LOCAL AREA NETWORK (WLAN)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/035075		WO2016/018512
6347	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6348	COMMUNICATION DEVICE AND METHOD FOR PROCESSING A RECEIVED SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	TW	104129958	I578735	201624955
6349	PACKET DATA UNIT MAPPING INTO TIME RESOURCE PATTERNS FOR EFFICIENT DEVICE-TO-DEVICE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/033337		WO2016/022205
6350	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6351	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6352	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/044214		WO2016/022924
6353	USER EQUIPMENT AND METHODS FOR ALLOCATION AND SIGNALING OF TIME RESOURCES FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	US	15/324530		US-2017-0208616-A1
6354	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6355	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	EPT	APP-Closed	EP	158300095		3176200
6356	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6357	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6358	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6359	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6360	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6361	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6362	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6363	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6364	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6365	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6366	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6367	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6368	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6369	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/035937		WO2016/022213
6370	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	[redacted]	[redacted]	PCT	APP-Closed	US	15/324515		US-2017-0201456-A1
6371	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6372	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6373	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/036261		WO2016/022214
6374	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	[redacted]	[redacted]	NP	MTR-Closed	TW	104121844	I576813	201607343
6375	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6376	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6377	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6378	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/036687		WO2016/025078
6379	LOAD BALANCING SCHEMES FOR IDLE MODE UE	[redacted]	[redacted]	PSP	APP-Closed	US	62/035924		
6380	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	EPT	MTR-Closed	EP	15827290		3175574
6381	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/022739		WO2016/018468
6382	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6383	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017001698-2		112017001698-2
6384	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-506662		2017-528867
6385	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/043826		WO2016/022698
6386	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6387	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/044763		WO2016/025648
6388	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6389	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6390	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6391	RANDOM ACCESS PROCEDURE FOR HANDOVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/062788		WO2016/105845
6392	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	NP	APP-Closed	US	14/580797		US-2015-0215840-A1
6393	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/011427		WO2015/116387
6394	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	[redacted]	[redacted]	NP	MTR-Closed	TW	104101174	I552622	201543922
6395	CONTEXT-AWARE RESOURCE MANAGEMENT FOR VIDEO STREAMING SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/054853		WO2016/076988
6396	NETWORK ASSISTED MMWAVE BEAM SYNCHRONIZATION AND ALIGNMENT	[redacted]	[redacted]	NP	APP-Closed	US	14/562592		US-2016-0165605-A1
6397	NETWORK ASSISTED MMWAVE BEAM SYNCHRONIZATION AND ALIGNMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/059414		WO2016/116212
6398	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016028874-2		112016028874-2
6399	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH PARTITIONING OF A COMMUNICATION BAND	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034032		WO2016/093884
6400	AN APPARATUS AND A METHOD FOR PREDICTING A FUTURE STATE OF AN ELECTRONIC COMPONENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/053665		WO2017/051264
6401	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/053360		WO2016/207759
6402	NOISE-SHAPING CIRCUIT DIGITAL-TO-TIME CONVERTER ANALOGTO-DIGITAL CONVERTER DIGITAL-TO-ANALOG CONVERTER FREQUENCY SYNTHESIZER TRANSMITTER RECEIVERTRANSCEIVER METHOD FOR SHAPING NOISE IN AN INPUT SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02014E+12	1.02014E+11	1.02014E+11
6403	METHODS AND DEVICES FOR MULTI-DEVICE LINK AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/019718		WO2016/160203
6404	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017002566-3		112017002566-3
6405	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038679		WO2016/039839
6406	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6407	GENERATING BROADCASTING AND RECEIVING SYSTEM INFORMATION BLOCKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/043482		WO2016/036663
6408	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
6409	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6410	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6411	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/060865		WO2016/099735
6412	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6413	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	EPT	APP-Closed	EP	15866306		3222113
6414	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/056338		WO2016/081127
6415	EVOLVED NODE-BUSER EQUIPMENT AND METHODS FOR MISSION-CRITICAL MACHINE TYPE COMMUNICATION	[redacted]	[redacted]	NP	APP-Closed	TW	10413285		201620286

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7	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8416	SYSTEMS APPARATUSES AND METHODS FOR MANAGING USER EQUIPMENT MOBILITY INFORMATION	[redacted]	[redacted]	EPT	APP-Closed	EP	15867421		3231212
8417	SYSTEMS APPARATUSES AND METHODS FOR MANAGING USER EQUIPMENT MOBILITY INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/060268		WO2016/094019
8418	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR TRANSITION BETWEEN UNLICENSED AND LICENSED FREQUENCY BANDS	[redacted]	[redacted]	EPT	APP-Closed	EP	15879707S		3235317
8419	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR TRANSITION BETWEEN UNLICENSED AND LICENSED FREQUENCY BANDS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/064486		WO2016/100018
8420	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8421									
8422									
8423									
8424	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017003704-1		112017003704-1
8425	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/047230		WO2016/053520
8426	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8427	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017003647-9		112017003647-9
8428	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/037361		WO2016/053426
8429	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	104128429	I578839	201622475
8430	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8431	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/065532		WO2016/044069
8432	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8433									
8434	SYSTEM AND METHOD OF MTC DEVICE OPERATIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	15844631O		3198749
8435	SYSTEM AND METHOD OF MTC DEVICE OPERATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-515633		2017-532831
8436	SYSTEM AND METHOD OF MTC DEVICE OPERATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048548		WO2016/048519
8437	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8438	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01508E+12		106797448
8439	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	FPR	APP-Closed	HK	17109O901		1235593
8440	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/044351		WO2016/053477
8441	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8442									
8443	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/046671		WO2016/048522
8444	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8445	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-512902		2017-527806
8446	DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048329		WO2016/048509
8447	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8448	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	NP	APP-Closed	US	14/671813		US-2016-0095092-A1
8449	RESOURCE ALLOCATION AND USE FOR DEVICE-TO-DEVICE ASSISTED POSITIONING IN WIRELESS CELLULAR TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048334		WO2016/048510
8450	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8451	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-514836		2017-535121
8452	USER EQUIPMENT AND SYNCHRONIZATION METHODS FOR DEVICE TO DEVICE (D2D) COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/051857		WO2016/049270
8453	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8454									
8455	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/052080		WO2016/049386
8456	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8457	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2017-7005193		10-2017-0036756
8458	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/042075		WO2016/048444
8459	CONSTRUCTION OF TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	RU	2017105748		2017105748
8460	CONSTRUCTION OF DATA TRANSMISSION PATTERNS FOR D2D COMMUNICATION	[redacted]	[redacted]	DIV	APP-Closed	TW	106111163		201728224
8461	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8462	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-508989		2017-528980
8463	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034174		WO2016/048432
8464	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8465									

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6466	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-516146		2017-532882
6467	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/041600		WO2016/048440
6468	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6469	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6470	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6471	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/041600		WO2016/053450
6472	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6473	INCREASED CARRIER MONITORING	[redacted]	[redacted]	EPT	APP-Closed	EP	15739410?		3158823
6474	INCREASED CARRIER MONITORING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038674		WO2016/048429
6475	SIG[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6476	NETWORK FUNCTIONS VIRTUALIZATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038675		WO2016/048430
6477	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6478	METHOD FOR MITIGATING INTERFERENCE AND INTERFERENCE MITIGATING RECEIVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/061593		WO2016/206893
6479	MECHANISMS FOR CO-EXISTENCE OF LTE-U NETWORK WITH ITSELF AND WITH OTHER TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/067693		WO2015/081248
6480	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6481	VOLUNTARY ACCESS BARRING	[redacted]	[redacted]	NP	APP-Closed	US	14/581613		US-2016-0183165-A1
6482	VOLUNTARY ACCESS BARRING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/061817		WO2016/105734
6483	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	[redacted]	[redacted]	PCT	MTR-Closed	BR	1120160300009-2		1120160300009-2
6484	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	[redacted]	[redacted]	EPT	APP-Closed	EP	158241919		3172848
6485	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6486	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/034086		WO2016/014155
6487	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	104119790	I575899	201613295
6488	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6489	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017003290-2		112017003290-2
6490	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/047222		WO2016/048573
6491	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6492	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048498		WO2016/057134
6493	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6494	COVERAGE CONSTRAINED DEVICES AND PAGING METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048861		WO2016/057137
6495	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6496	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/042068		WO2016/057101
6497	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6498	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017005189-3		112017005189-3
6499	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION	[redacted]	[redacted]	EPT	APP-Closed	EP	157707522		3207713
6500	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/050025		WO2016/060766
6501	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6502	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0148E+12		105557051
6503	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	[redacted]	[redacted]	ETSI	APP-Closed	EP	181681313		3367737
6504	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	[redacted]	[redacted]	FPN	APP-Closed	HK	161112345		1223222
6505	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6506	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2014/063434		WO2015/066476
6507	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6508	IMPROVING DATA THROUGHPUT FOR CELL-EDGE USERS IN A LTE NETWORK USING DOWN-LINK REPEATERS AND UP-LINK HARQ RELAYS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2011/064685		WO2012/082763
6509	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6510	UPLINK TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/052189		WO2016/060823
6511	UL TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	[redacted]	[redacted]	PCT	APP-Closed	US	15/510683		US-2017-0223698-A1
6512	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6513	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017006044-2		112017006044-2
6514	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	EPT	APP-Closed	EP	157573601		3210427
6515	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/042975		WO2016/064458
6516	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6517	SYSTEMS METHODS AND APPARATUSES FOR BEARER SPLITTING IN MULTI-RADIO NETNET	[redacted]	[redacted]	PCT	MTR-Closed	BR	112017006077-9		112017006077-9
6518	SYSTEMS METHODS AND APPARATUSES FOR BEARER SPLITTING IN MULTI-RADIO NETNET	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-512734		2017-532848
6519	SYSTEMS METHODS AND APPARATUSES FOR BEARER SPLITTING IN MULTI-RADIO NETNET	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/051045		WO2016/064498
6520	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6521	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/056758		WO2016/065068
6522	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	[redacted]	[redacted]	PCT	APP-Closed	US	15/513118		US-2018-0249461-A1
6523	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8524	[redacted]								
8525	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE TO-DEVICE (D2D) DISCOVERY MESSAGES			EPT	MTR-Closed	EP	15736364		3198970
8526	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE TO-DEVICE (D2D) DISCOVERY MESSAGES			PCT	APP-Closed	WO	PCT/US2015/037885		WO2016/048428
8527	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE TO-DEVICE (D2D) DISCOVERY MESSAGES			NP	MTR-Closed	TW	104127015	I583225	201632001
8528	[redacted]								
8529	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE			EPA	APP-Closed	EP	16157753		3073689
8530	DISCRETE FILTER HAVING A TAP SELECTION CIRCUIT			NP	MTR-Closed	US	09/432937	7080106	
8531	INTER CELL INTERFERENCE COORDINATION IN WIRELESS NETWORKS			PCT	APP-Closed	WO	PCT/US2012/047893		WO2013/016301
8532	[redacted]								
8533	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			PCT	MTR-Closed	CN	2.01278E+12	ZL201280046120.4	104041118
8534	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			EPT	MTR-Closed	DE	12741453	2735194	2735194
8535	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			EPT	MTR-Closed	FR	12741453	2735194	2735194
8536	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			EPT	MTR-Closed	GB	12741453	2735194	2735194
8537	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			EPT	MTR-Closed	NL	12741453	2735194	2735194
8538	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			PCT	APP-Closed	JP	2014-522932		2014-526195
8539	HIGH SPEED HANDOVERS IN A WIRELESS NETWORK			PCT	APP-Closed	WO	PCT/US2012/047892		WO2013/016300
8540	[redacted]								
8541	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM			PCT	APP-Closed	WO	PCT/US2015/034958		WO2016/003610
8542	[redacted]								
8543	SYSTEM AND METHOD TO ADDRESS RESOURCE COLLISION FOR ASYMMETRIC REGION ALLOCATION			PCT	APP-Closed	WO	PCT/US2015/054089		WO2016/073106
8544	[redacted]								
8545	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL IN MACHINE-TYPE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/059303		WO2016/073762
8546	[redacted]								
8547	USER EQUIPMENT AND METHODS FOR CSI MEASUREMENTS WITH REDUCED BANDWIDTH SUPPORT			NP	APP-Closed	US	14/711866		US-2016-0127936-A1
8548	USER EQUIPMENT AND METHODS FOR CSI MEASUREMENTS WITH REDUCED BANDWIDTH SUPPORT			PCT	APP-Closed	WO	PCT/US2015/053547		WO2016/073099
8549	[redacted]								
8550	D2D COMMUNICATION DEVICES AND METHOD OF TRANSMISSION FOR OVERLAPPED D2D RESOURCE POOLS			PCT	APP-Closed	WO	PCT/US2015/054157		WO2016/073131
8551	[redacted]								
8552	APPARATUS SYSTEM AND METHOD OF SELECTING A MOBILITY MODE OF A USER EQUIPMENT (UE)			PCT	APP-Closed	WO	PCT/US2015/054160		WO2016/073132
8553	[redacted]								
8554	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE			PCT	APP-Closed	WO	PCT/US2015/054161		WO2016/073133
8555	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE			NP	MTR-Closed	TW	104131629	I593302	201628449
8556	[redacted]								
8557	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC			PCT	MTR-Closed	BR	112017009269-7		112017009269-7
8558	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC			PCT	APP-Closed	WO	PCT/US2015/059016		WO2016/073591
8559	[redacted]								
8560	USER EQUIPMENT AND METHOD FOR COMMUNICATING ON CELLS CONFIGURED FOR LICENSED ASSISTED ACCESS (LAA)			PCT	APP-Closed	WO	PCT/US2015/037632		WO2016/073039
8561	[redacted]								
8562	COMPUTING APPARATUS WITH CROSS-SUBFRAME SCHEDULING			PCT	APP-Closed	WO	PCT/US2015/054318		WO2016/073122
8563	[redacted]								
8564	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE			PCT	APP-Closed	WO	PCT/US2015/054230		WO2016/073118
8565	[redacted]								
8566	[redacted]								
8567	AN APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION			EPT	APP-Closed	EP	158615393		3222109
8568	AN APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION			PCT	APP-Closed	WO	PCT/US2015/055436		WO2016/081098
8569	APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION			PCT	APP-Closed	US	15/519639		US-2017-0251084-A1
8570	[redacted]								
8571	SYSTEMS APPARATUSES AND METHODS FOR PROCESSING RANDOM ACCESS RESPONSE MESSAGES FOR COVERAGE CONSTRAINED DEVICES			PCT	APP-Closed	WO	PCT/US2015/055967		WO2016/081114
8572	[redacted]								
8573	LISTEN BEFORE TALK (LBT) DESIGN FOR UPLINK LICENSED ASSISTED ACCESS (LAA) OPERATION IN UNLICENSED BAND			PCT	APP-Closed	WO	PCT/US2015/060802		WO2016/081375
8574	[redacted]								
8575	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT			PCD	APP-Closed	JP	2017-168337		2018-033137

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8576	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066011		WO2016/081136
8577	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8578	HIGH LINEARITY PUSH-PULL COMMON-GATE AMPLIFIER	[redacted]	[redacted]	EPA	APP-Closed	EP	15152328		3062439
8579	TERMINAL DEVICE AND MOBILE RADIO COMMUNICATION BY TERMINAL DEVICE	[redacted]	[redacted]	NP	MTR-Closed	TW	105104318	I580691	201640941
8580	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE RECEIVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2015/064454		WO2016/206747
8581	INTERFERENCE CANCELLATION	[redacted]	[redacted]	NP	APP-Closed	US	14/751959		US-2016-0380657-A1
8582	INTERFERENCE CANCELLATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038675		WO2016/209904
8583	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8584	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/053356		WO2016/207756
8585	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8586	FREQUENCY CORRECTION IN A MULTI-CARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/061881		WO2007/068091
8587	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8588	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/053358		WO2016/207757
8589	REFERENCE SIGNAL POWER MEASUREMENT FILTERING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2015/082361		WO2016/206051
8590	CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION	[redacted]	[redacted]	NP	APP-Closed	US	14/692987		US-2016-0149628-A1
8591	CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/057508		WO2016/085608
8592	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8593	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066542		WO2016/081303
8594	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8595	INTERACTIVE VIDEO CONFERENCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/058734		WO2016/089519
8596	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8597	DEVICE AND METHOD FOR PROCESSING AUDIO DATA	[redacted]	[redacted]	NP	MTR-Closed	TW	105105647	I593297	201644299
8598	A METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/054645		WO2017/051268
8599	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/060655		WO2016/109032
8600	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	[redacted]	[redacted]	NP	MTR-Closed	TW	104139439	I578818	201633818
8601	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8602	REFERENCE SIGNAL PRESENCE DETECTON BASED LICENSE ASSISTED ACCESS AND REFERENCE SIGNAL SEQUENCE DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/061829		WO2016/099801
8603	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8604	JOINT PROCESSING OF TRANSPORT BLOCKS ON MULTIPLE COMPONENT CARRIERS FOR CA (CARRIER AGGREGATION) AND LAA (LICENSE ASSISTED ACCESS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/065154		WO2016/105978
8605	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8606	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/019888		WO2016/160215
8607	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	EPT	MTR-Closed	EP	16708914		3275277
8608	TECHNIQUES TO SUPPORT INTEGRATED BLUETOOTH/3GPP RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	NP	MTR-Closed	TW	105105518	I600339	201644306
8609	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	APP-Closed	CA	2937915		2937915
8610	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7019855		10-2016-0109613
8611	CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/017140		WO2015/127384
8612	AT COMMAND FOR SECURE ESM INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/021172		WO2016/175926
8613	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
8614	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
8615	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
8616	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			
8617	AT COMMAND FOR SECURE ESM INFORMATION	[redacted]	[redacted]	NP	APP-Closed	TW	105105251		201635387
8618	ELECTRONIC DEVICES AND METHOD OF CONTROLLING AN ELECTRONIC DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/013613		WO2016/133617
8619	METHODS AND DEVICES FOR PROVIDING A ROBUST DATA COMMUNICATION BETWEEN A CLIENT AND A SERVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/061449		WO2016/206877
8620	USER EQUIPMENT AND BASE STATION FOR DYNAMIC CSI-RS AND CSI-IM TRANSMISSION IN LTE SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/064751		WO2016/114868
8621	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8622	LTE-A SYSTEMS AND METHOD OF DRS BASED POSITIONING	[redacted]	[redacted]	EPT	APP-Closed	EP	15878273		3245823
8623	LTE-A SYSTEMS AND METHOD OF DRS BASED POSITIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/063786		WO2016/114858
8624	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8625	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	[redacted]	[redacted]	NP	APP-Closed	US	14/974507		US-2016-0212624-A1
8626	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066994		WO2016/114935
8627	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
8628	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	JP	2017-530607		2018-504809
8629	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/064689		WO2016/114866

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6630	[redacted]								
6631	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/056179		WO2016/118199
6632	[redacted]								
6633	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY			EPT	APP-Closed	EP	158206846		3245837
6634	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY			PCT	APP-Closed	JP	2017-536691		2018-507574
6635	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY			PCT	APP-Closed	WO	PCT/US2015/064467		WO2016/114864
6636	[redacted]								
6637	USER EQUIPMENT AND CODEBOOK SEARCH METHOD FOR 4TX DUAL CODEBOOK (RAN1)			PCT	APP-Closed	WO	PCT/CN2015/082363		WO2016/206052
6638	ROBUST SNIR ESTIMATION			PCT	APP-Closed	WO	PCT/EP2016/069373		WO2017/045849
6639	METHODS AND DEVICES FOR POWER SAVING			PCT	APP-Closed	WO	PCT/EP2016/069987		WO2017/050512
6640	POWER OPTIMIZATION FOR CHANNEL STATE REPORTS IN A WIRELESS COMMUNICATION NETWORK			PCT	APP-Closed	WO	PCT/EP2016/062528		WO2017/016715
6641	DEVICE AND METHOD FOR MITIGATING LOWPASS FILTER GROUP DELAY			PCT	APP-Closed	WO	PCT/EP2016/069479		WO2017/045858
6642	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE			NP	MTR-Closed	BR	102016011683-0		102016011683-0
6643	METHOD AND DEVICE FOR DETERMINING CHANNEL STATE INFORMATION			PCT	APP-Closed	WO	PCT/EP2016/061543		WO2016/206888
6644	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE			PCT	APP-Closed	WO	PCT/US2016/032962		WO2016/209422
6645	METHOD AND DEVICE FOR DETECTING A TRANSMISSION FROM AN INTERFERING RADIO CELL			PCT	APP-Closed	WO	PCT/EP2016/061678		WO2016/206898
6646	METHODS AND DEVICES FOR CHANNEL ESTIMATION FOR MOBILE SYSTEMS OF INSUFFICIENT CYCLIC PREFIX LENGTH			PCT	APP-Closed	WO	PCT/EP2016/057395		WO2016/177522
6647	COMMUNICATION DEVICE AND METHOD FOR STORING DATA			NP	MTR-Closed	DE	1.02015E+12	1.02015E+11	1.02015E+11
6648	COMMUNICATION DEVICE AND METHOD FOR STORING DATA			PCT	APP-Closed	WO	PCT/US2016/039154		WO2016/209398
6649	MULTI-TRANSMISSION CAPABLE DATA TRANSMISSION SYSTEM AND METHOD OF OPERATING THE SAME			PCT	APP-Closed	WO	PCT/EP2016/061561		WO2016/206891
6650	TRANSCEIVER DEVICE AND METHOD OF PROCESSING SIGNALS			NP	MTR-Closed	BR	102016011772-0		102016011772-0
6651	ENHANCED LISTEN-BEFORE-TALK (LBT) FOR UNLICENSED BAND OPERATION WITH CELL SPLITTING			PCT	APP-Closed	WO	PCT/US2015/062427		WO2016/122764
6652	[redacted]								
6653	DEVICES AND METHODS FOR EPDCCH MONITORING IN WIRELESS COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/064497		WO2016/118241
6654	[redacted]								
6655	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/064477		WO2016/118240
6656	[redacted]								
6657	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS			PCT	APP-Closed	WO	PCT/US2015/067400		WO2016/122812
6658	[redacted]								
6659	LAA (LICENSE ASSISTED ACCESS) BURST CONTROL INFORMATION			PCT	APP-Closed	WO	PCT/US2015/065230		WO2016/122786
6660	[redacted]								
6661	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY			PCT	APP-Closed	WO	PCT/US2015/062281		WO2016/122761
6662	[redacted]								
6663	APERIODIC CHANNEL STATE INFORMATION (CSI) REPORTING FOR CARRIER AGGREGATION			PCT	APP-Closed	WO	PCT/US2015/062403		WO2016/122763
6664	[redacted]								
6665	APPLICATION SPECIFIC CONGESTION CONTROL FOR DATA COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2015/067978		WO2016/118282
6666	[redacted]								
6667	[redacted]								
6668	[redacted]								
6669	CARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G			NP	APP-Closed	US	14/802901		US-2016-0226632-A1
6670	[redacted]								
6671	CARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G			PCT	APP-Closed	WO	PCT/US2015/067518		WO2016/122814
6672	CARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G			NP	MTR-Closed	TW	104142500	I593308	201635838
6673	[redacted]								
6674	RADIO RESOURCE MANAGEMENT (RRM) REPORTING FOR LICENSED ASSISTED ACCESS (LAA)			PCT	APP-Closed	WO	PCT/US2016/015810		WO2016/123568
6675	[redacted]								
6676	WIRELESS SYSTEMS AND METHODS			NP	APP-Closed	US	14/836213		US-2016-0223639-A1
6677	WIRELESS SYSTEMS AND METHODS			PCT	APP-Closed	WO	PCT/US2015/061828		WO2016/122757
6678	[redacted]								
6679	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES			PCT	APP-Closed	WO	PCT/US2015/000290		WO2016/122436
6680	[redacted]								
6681	POWER HEADROOM REPORTING WITH CHANNEL SELECTION			PCT	APP-Closed	WO	PCT/US2015/068772		WO2016/122803
6682	[redacted]								
6683	SYSTEM AND METHODS FOR PRECODED TRANSMISSIONS FOR NARROWBAND TRANSMISSIONS WITHIN WIDER SYSTEM BANDWIDTH			PCT	APP-Closed	WO	PCT/US2015/000307		WO2016/122437

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6684	[redacted]								
6685	SYSTEM AND METHODS FOR SUPPORT OF FREQUENCY HOPPING FOR UES WITH REDUCED BANDWIDTH SUPPORT			EPT	APP-Closed	EP	15880641.4		3251265
6686	SYSTEM AND METHODS FOR SUPPORT OF FREQUENCY HOPPING FOR UES WITH REDUCED BANDWIDTH SUPPORT			PCT	APP-Closed	WO	PCT/US2015/064783		WO2016/122782
6687	[redacted]								
6688	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS			PCT	APP-Closed	WO	PCT/US2015/064925		WO2016/122784
6689	[redacted]								
6690	OUTAGE NOTIFICATION AND CONTEXT PRESERVATION FOR ENERGY-HARVESTING DEVICES			PCT	APP-Closed	WO	PCT/US2016/043186		WO2017/023554
6691	DOWNLINK SIGNALING FOR UE SPECIFIC CYCLIC PREFIX TRANSMISSION			PCT	APP-Closed	WO	PCT/US2016/046476		WO2017/074550
6692	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES			PCT	APP-Closed	WO	PCT/US2016/036499		WO2017/007564
6693	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES			EPT	APP-Closed	EP	16735269.8		3320714
6694	UPLINK SYNCHRONIZATION WITH ASSISTED mmWAVE ENHANCED NODE B			PCT	APP-Closed	WO	PCT/US2016/043743		WO2017/030740
6695	CELL SEARCH AND SYNCHRONIZATION IN MILLIMETER-WAVE CAPABLE SMALL CELLS			PCT	APP-Closed	WO	PCT/US2016/056920		WO2017/112092
6696	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS			NP	MTR-Closed	BR	102016012292-9		102016012292-9
6697	METHOD FOR POWER SAVING AND POWER SAVING CIRCUIT FOR A MOBILE DEVICE			PCT	APP-Closed	WO	PCT/[redacted]061596		WO2016/206894
6698	A METHOD FOR FEEDBACK REPORTING AND A MOBILE COMMUNICATIONS DEVICE			PCT	APP-Closed	WO	PCT/US2016/033859		WO2016/209465
6699	METHOD AND RELATED MOBILE DEVICE FOR FAST BLIND DECODING			NP	MTR-Closed	DE	1.02015E+12	1.02015E+11	
6700	METHOD AND RELATED MOBILE DEVICE FOR FAST BLIND DECODING			PCT	APP-Closed	WO	PCT/US2016/032958		WO2017/011069
6701	A SYSTEM AND A METHOD FOR DETERMINING A CORRECTION FOR AN OUTPUT VALUE OF A TIME-TO-DIGITAL CONVERTER WITHIN A PHASE-LOCKED LOOP			PCT	APP-Closed	WO	PCT/IB2016/053359		WO2016/207758
6702	SUPER ULTRA WIDEBAND ANTENNA			NP	APP-Closed	US	15/156961		US-2016-0380356-A1
6703	SUPER ULTRA WIDEBAND ANTENNA			NP	APP-Closed	KR	10-2016-0063866		10-2017-0001589
6704	SUPER ULTRA WIDEBAND ANTENNA			DIV	APP-Closed	KR	10-2018-0019100		10-2018-0021835
6705	SYSTEMS AND METHODS FOR AGGREGATING AN ENHANCED MULTIMEDIA BROADCAST MULTICAST SERVICE OVER MULTIPLE FREQUENCY CARRIERS			PCT	APP-Closed	WO	PCT/US2016/012867		WO2016/130250
6706	[redacted]								
6707	POSITIONING WITH WLAN TIME OF FLIGHT			PCT	APP-Closed	WO	PCT/US2015/037910		WO2016/126280
6708	[redacted]								
6709	METHODS AND APPARATUSES FOR CHARGING ARCHITECTURE FOR LONG-TERM EVOLUTION NETWORKS			PCT	APP-Closed	WO	PCT/US2015/038098		WO2016/133553
6710	DIFFERENTIAL CHARGING FOR LICENSED AND UNLICENSED SPECTRUM USAGE			PCT	APP-Closed	US	15/544871		US-2018-0007213-A1
6711	[redacted]								
6712	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE			PCT	APP-Closed	WO	PCT/US2015/044628		WO2016/130175
6713	[redacted]								
6714	OPPORTUNISTIC ACCESS OF MILLIMETERWAVE RADIO ACCESS TECHNOLOGY BASED ON EDGE CLOUD MOBILE PROXY			PCT	APP-Closed	WO	PCT/US2016/020741		WO2016/141213
6715	OPPORTUNISTIC ACCESS OF MILLIMETERWAVE RADIO ACCESS TECHNOLOGY BASED ON EDGE CLOUD MOBILE PROXY			EPT	APP-Closed	EP	16711727.4		3266167
6716	[redacted]								
6717	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION			PCT	APP-Closed	WO	PCT/US2015/051171		WO2016/137532
6718	[redacted]								
6719	SYSTEMS AND METHODS FOR ENHANCED MBMS WITH MIMO SUPPORT			PCT	APP-Closed	WO	PCT/US2016/013356		WO2016/137582
6720	[redacted]								
6721	BASE STATION POWER CONSERVATION VIA DEVICE OPERATION COORDINATION			PCT	APP-Closed	WO	PCT/US2016/028572		WO2017/184141
6722	ARCHITECTURE FOR WIRELESS NETWORK ACCESS			PCT	APP-Closed	WO	PCT/US2015/054879		WO2017/062028
6723	LOW-POWER WAKEUP RADIO FOR MOBILE DEVICES			PCT	APP-Closed	WO	PCT/US2015/052257		WO2017/052596
6724	APPARATUS SYSTEM AND METHOD OF OFFLOADING TRAFFIC OF A SECONDARY CELL GROUP (SCG)			PCT	APP-Closed	WO	PCT/US2015/052081		WO2016/144383
6725	[redacted]								
6726	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE RELAY COMMUNICATION			PCT	APP-Closed	WO	PCT/US2016/013195		WO2016/144425
6727	[redacted]								
6728	TIME SYNCHRONIZATION FOR NODES IN A WIRELESS PERSONAL AREA NETWORK (WPAN)			PCT	APP-Closed	WO	PCT/RU2015/000390		WO2016/209102
6729	POWER SAVE IN MACHINE TYPE COMMUNICATION DEVICE			PCT	APP-Closed	WO	PCT/US2016/038690		WO2016/209912
6730	TRANSMISSION TOGGLE UPLINK COMPENSATION			PCT	APP-Closed	WO	PCT/US2016/038662		WO2016/209896
6731	COMMUNICATION TERMINAL AND METHOD FOR HANDLING UPLOAD TRAFFIC CONGESTION			PCT	APP-Closed	WO	PCT/US2016/032959		WO2016/209421
6732	METHOD FOR DETERMINING A PRECODING MATRIX AND PRECODING MODULE			PCT	APP-Closed	WO	PCT/CN2015/081679		WO2016/201647
6733	SIGNAL PROCESSING APPARATUS AND METHOD FOR PROCESSING A SIGNAL			PCT	APP-Closed	WO	PCT/US2016/038852		WO2016/209464
6734	A CIRCUIT AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL			PCT	APP-Closed	WO	PCT/IB2016/053355		WO2016/207755
6735	A FRAMEWORK FOR UNLICENSED SPECTRUM USAGE MONITORING AND REPORTING IN LTE NETWORKS			PCT	APP-Closed	WO	PCT/US2016/063550		WO2017/112284
6736	SYSTEMS AND METHODS FOR CROSS-LAYER BEARER SPLITTING AND CROSS-RADIO ACCESS TECHNOLOGY RETRANSMISSION			PCT	APP-Closed	WO	PCT/US2016/048185		WO2017/044230
6737	SYSTEMS AND METHODS FOR ELIMINATION OF PDCCH IN RESOURCE ALLOCATION SIGNALING FOR MTC DEVICES			PCT	APP-Closed	WO	PCT/US2016/046167		WO2017/048433
6738	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION			PCT	APP-Closed	WO	PCT/US2016/018180		WO2016/148819

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6739	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	16767331		3269186
6740	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6741	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/014820		WO2016/148773
6742	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6743	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/016426		WO2016/148790
6744	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	[redacted]	[redacted]	EPT	MTR-Closed	EP	167082411		3272145
6745	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6746	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	NP	MTR-Closed	US	09/680665	6895421	
6747	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	PCT	APP-Closed	CN	18198798		1478234
6748	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	NP	APP-Closed	IL	132270		132270
6749	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	PCT	MTR-Closed	JP	2002-533113	3744896	2004-511046
6750	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	DIV	APP-Closed	JP	2005-114408		2005-302033
6751	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2003-7004937	10-0522262	10-2003-0094213
6752	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/042537		WO2002/029611
6753	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	PCT	APP-Closed	SG	200301951-0		96045
6754	METHOD AND APPARATUS FOR EFFECTIVELY PERFORMING LINEAR TRANSFORMATIONS	[redacted]	[redacted]	DIV	MTR-Closed	SG	200503562-1	149682	149682
6755	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
6756	CONTROL OF TRANMISSION POWER IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	CN	8180715		1378724
6757	TRANSMISSION POWER (IMPROVED TX POWER CONTROL USING LONG CODE)	[redacted]	[redacted]	PCT	MTR-Closed	DE	10085465		10085465
6758	CONTROL OF TRANSMISSION POWER IN A COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	GB	2086664	2372387	2372387
6759	TRANSMISSION POWER (IMPROVED TX POWER CONTROL USING LONG CODE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IL2000/000640		WO2001/028125
6760	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/051432		WO2016/153548
6761	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6762	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/056152		WO2016/153355
6763	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6764	ANTENNA SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/048172		WO2017/052897
6765	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/054507		WO2017/037554
6766	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066740		WO2016/164085
6767	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	[redacted]	[redacted]	EPT	APP-Closed	EP	15823468.2		3281373
6768	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Closed	US	15/552588		US-2018-0054286-A1
6769	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6770	CELL SPECIFIC GROUP MEASUREMENT GAP FOR CARRIER AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/067342		WO2016/164087
6771	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6772	DEVICE-TO-DEVICE RECEIVE WINDOW SELECTION FOR INTER-CELL OPERATION	[redacted]	[redacted]	NP	APP-Closed	US	14/973349		US-2016-0302246-A1
6773	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6774	RESOLVING CONCURRENT COMMUNICATIONS AT A RELAY USER EQUIPMENT (UE)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066148		WO2016/164084
6775	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6776	CONTROL SIGNALING MECHANISMS FOR ENHANCED DEVICE-TO-DEVICE (D2D)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/030435		WO2016/163972
6777	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6778	CARRIER-SENSING TECHNIQUES FOR LTE-BASED TRANSMISSIONS OVER UNLICENSED CARRIERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/030439		WO2016/163973
6779	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6780	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/016425		WO2016/164098
6781	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6782	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066000		WO2016/164083
6783	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6784	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/016429		WO2016/164100
6785	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01688E+12		107431986
6786	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	[redacted]	[redacted]	FPR	APP-Closed	HK	18106689.3		1247501
6787	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6788	USER EQUIPMENT RADIO FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/065519		WO2016/164081
6789	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6790	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/015282		WO2016/164095
6791	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	[redacted]	[redacted]	EPT	APP-Closed	EP	167705072		3281447
6792	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6793	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048682		WO2016/167828
6794	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	US	15/551885		US-2018-0041957-A1
6795	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6796	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/050250		WO2016/171748
6797	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6798	POSITIONING DEVICE AND METHOD FOR DETERMINING THE POSITION OF A COMMUNICATION DEVICE	[redacted]	[redacted]	NP	APP-Closed	US	14/860740		US-2017-0082729-A1
6799	POSITIONING DEVICE AND METHOD FOR DETERMINING THE POSITION OF A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/044946		WO2017/052780
6800	A DECODER AND A METHOD OF DECODING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/067295		WO2017/041950
6801	METHODS OF PERFORMING COMMUNICATIONS MOBILE TREMINAL DEVICES AND BASEBAND MODEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/046121		WO2017/052823
6802	RECEIVER WITH TUNABLE RECEIVING CHAIN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/069816		WO2017/050497
6803	METHODS FOR RADIO COMMUNICATION AND COMMUNICATION DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/045677		WO2017/044219
6804	COMMUNICATION DEVICE AND METHOD FOR COMMUNICATING USING A FREQUENCY RANGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/042392		WO2017/030697
6805	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/063803		WO2016/171765
6806	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6807	TRANSFORMER BASED DUPLEXER	[redacted]	[redacted]	NP	APP-Closed	US	14/752811		US-2016-0380634-A1
6808	INTEGRATED ANTENNA WITH DISPLAY UNIFORMITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/048184		WO2017/052895
6809	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6810	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6811	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR PAGING USING A BITMAP OF PAGING INDICATORS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/062140		WO2017/034697
6812	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/023384		WO2016/182634
6813	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6814	EVOLVED NODE-B LOCAL CONTROLLER AND METHOD FOR ALLOCATION OF SPECTRUM FOR SECONDARY USAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/051523		WO2017/052517
6815	APPARATUS AND METHOD OF PROVIDING A FLEXIBLE GUARD INTERVAL FOR BLOCK SINGLE CARRIER TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/048713		WO2016/114824
6816	PERFORMING PRIMARY CELL FUNCTIONS IN A SECONDARY CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/027558		WO2016/182679
6817	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6818	TECHNIQUES FOR DETERMINING POWER OFFSETS OF A PHYSICAL DOWNLINK SHARED CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/052202		WO2016/182593
6819	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6820	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6821	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/037745		WO2015/200687
6822	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	US	15/128370		US-2017-0195102-A1
6823	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	MTR-Closed	BR	112016027269-2		112016027269-2
6824	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	JP	2016-567911		2017-526197
6825	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2016-7032947		10-2016-0147272
6826	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/038800		WO2015/200804
6827	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6828	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/046098		WO2017/048408
6829	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/044353		WO2017/048380
6830	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
6831	COMMUNICATION TERMINAL AND METHOD FOR COMMUNICATING DATA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/048248		WO2017/052908
6832	BEAMFORMING DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/064042		WO2017/012803
6833	COMMUNICATION TERMINAL AND METHOD FOR TRANSMITTING A SIGNALING MESSAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/046222		WO2017/052824
6834	MOBILE TERMINAL DEVICES AND METHODS OF DETECTING REFERENCE SIGNALS	[redacted]	[redacted]	NP	APP-Closed	US	14/830797		US-2017-0054538-A1
6835	MOBILE TERMINAL DEVICES AND METHODS OF DETECTING REFERENCE SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/042880		WO2017/030717
6836	RADIO RECEIVER AND METHOD FOR DETECTING A LAYER OF A MULTI-LAYERED SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/068399		WO2017/045633
6837	METHODS OF PROCESSING SIGNALS APPARATUS AND BASE STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2015/089343		WO2017/041270
6838	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/000259		WO2016/182528
6839	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6840	[redacted]								
6841	MEASUREMENT GAP CONFIGURATION IN DUAL CONNECTIVITY ENHANCEMENT			PCT	APP-Closed	WO	PCT/US2015/000272		WO2016/182527
6842	[redacted]								
6843	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/030359		WO2016/182530
6844	[redacted]								
6845	CARRIER AGGREGATION ENHANCEMENT			PCT	APP-Closed	WO	PCT/US2016/031299		WO2016/182941
6846	[redacted]								
6847	REDUCTION OF CONCURRENT SIGNALING IN A RELAY USER EQUIPMENT (UE)			PCT	APP-Closed	WO	PCT/US2015/066152		WO2016/182601
6848	[redacted]								
6849	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK			PCT	APP-Closed	WO	PCT/US2015/000427		WO2016/182533
6850	[redacted]								
6851	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION			PCT	APP-Closed	WO	PCT/US2015/064833		WO2016/182597
6852	[redacted]								
6853	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY			PCT	APP-Closed	WO	PCT/US2016/027951		WO2016/182692
6854	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY			EPT	MTR-Closed	EP	167202548		3295594
6855	[redacted]								
6856	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD			PCT	APP-Closed	WO	PCT/US2015/052444		WO2016/186685
6857	[redacted]								
6858	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB			EPT	APP-Closed	EP	15879138		3248409
6859	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB			PCT	APP-Closed	WO	PCT/US2015/010335		WO2016/118103
6860	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PCS PROTOCOL			PCT	APP-Closed	WO	PCT/US2015/057371		WO2016/118202
6861	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION			PCT	APP-Closed	WO	PCT/US2015/064964		WO2016/186698
6862	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION			PCT	APP-Closed	JP	2017-552478		2018-520529
6863	[redacted]								
6864	TRANSMITTING SYSTEM INFORMATION CHANGE NOTIFICATIONS TO MTC DEVICES			PCT	APP-Closed	WO	PCT/US2015/063217		WO2016/186696
6865	[redacted]								
6866	EVOLVED NODE-B SPECTRUM ACCESS SYSTEM (SAS) CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM			PCT	APP-Closed	WO	PCT/US2015/065963		WO2016/195751
6867	[redacted]								
6868	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES			PCT	APP-Closed	WO	PCT/US2015/052392		WO2016/195735
6869	[redacted]								
6870	[redacted]								
6871	RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE EFFICIENCY THEREOF			PCT	MTR-Closed	CN	18101992	ZL018101992	1314198
6872	RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE EFFICIENCY THEREOF			PCT	MTR-Closed	DE	101962320		10196232
6873	RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE EFFICIENCY THEREOF			PCT	MTR-Closed	GB	2255107	2378581	2378581
6874	RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE EFFICIENCY THEREOF			PCT	APP-Closed	WO	PCT/IL2001/000483		WO2001/091282
6875	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/061486		WO2017/019116
6876	[redacted]								
6877	METHODS FOR PERFORMING WIRELESS COMMUNICATIONS MOBILE TERMINAL DEVICES AND SERVERS			PCT	APP-Closed	WO	PCT/US2016/047546		WO2017/052870
6878	METHOD FOR PERFORMING MOBILE COMMUNICATIONS MOBILE TERMINAL DEVICE AND MOBILE BASEBAND PROCESSING CIRCUIT			PCT	APP-Closed	WO	PCT/CN2015/089905		WO2017/045188
6879	METHODS FOR PERFORMING MOBILE COMMUNICATIONS BETWEEN MOBILE TERMINAL DEVICES BASE STATIONS AND NETWORK CONTROL DEVICES			PCT	APP-Closed	WO	PCT/US2016/047943		WO2017/052868
6880	METHODS AND DEVICES FOR SHARED SPECTRUM ALLOCATION			PCT	APP-Closed	WO	PCT/US2016/040619		WO2018/004641
6881	UPLINK INTERFERENCE MANAGEMENT IN SHARED SPECTRUM NETWORKS			NP	APP-Closed	US	14/998116		US-2017-0188314-A1
6882	IDENTIFYING VICTIMS AND AGGRESSORS IN FULL DUPLEX COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/050909		WO2017/048273
6883	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION			PCT	APP-Closed	WO	PCT/IB2015/002621		WO2016/198909
6884	[redacted]								
6885	SYSTEM AND METHOD FOR DYNAMIC MARKING FOR INTERNET PROTOCOL BEARER SPLITTING			PCT	APP-Closed	WO	PCT/US2016/027958		WO2016/200487
6886	[redacted]								
6887	LOW LATENCY CONTENTION BASED SCHEDULING REQUEST			PCT	APP-Closed	WO	PCT/US2015/010407		WO2016/204713
6888	[redacted]								
6889	UPLINK RESOURCE COLLISION REDUCTION IN FD-MIMO			PCT	APP-Closed	WO	PCT/US2015/065522		WO2016/204807
6890	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
8891	[redacted]								
8892	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION			PCT	APP-Closed	WO	PCT/US2015/067428		WO2016/204815
8893	[redacted]								
8894	ADAPTIVE VIDEO CONTENT FOR CELLULAR COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/030406		WO2016/204712
8895	[redacted]								
8896	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/000358		WO2016/209198
8897	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION			PCT	APP-Closed	JP	2017-552442		2018-523522
8898	[redacted]								
8899	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)			PCT	APP-Closed	WO	PCT/US2015/000355		WO2016/200358
8900	ENHANCED OVERLAID CODE DIVISION MULTIPLE ACCESS (CDMA)			EPT	APP-Closed	EP	158289009		3308584
8901	[redacted]								
8902	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING			PCT	APP-Closed	WO	PCT/US2015/064448		WO2016/186697
8903	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING			PCT	APP-Closed	JP	2017-555384		2018-520532
8904	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS			PCT	APP-Closed	WO	PCT/US2015/067331		WO2016/195754
8905	[redacted]								
8906	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL			PCT	APP-Closed	WO	PCT/IB2015/057377		WO2017/051218
8907	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION			PCT	APP-Closed	WO	PCT/US2015/065548		WO2017/007502
8908	[redacted]								
8909	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/066744		WO2017/003508
8910	[redacted]								
8911	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS			PCT	APP-Closed	WO	PCT/US2015/065770		WO2016/209311
8912	[redacted]								
8913	PROXY COORDINATED WIRELESS COMMUNICATION OPERATION FOR VEHICULAR ENVIRONMENTS			PCT	APP-Closed	WO	PCT/US2015/000251		WO2017/003405
8914	[redacted]								
8915	METHODS APPARATUSES AND SYSTEMS FOR MULTI-POINT MULTI-CELL SINGLE-USER BASED MULTIPLE INPUT AND MULTIPLE OUTPUT TRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2016/014360		WO2016/137614
8916	[redacted]								
8917	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS			PCT	APP-Closed	WO	PCT/US2015/058898		WO2016/061436
8918	APPARATUS SYSTEM AND METHOD OF CELLULAR-ASSISTED FINE TIME MEASUREMENT			PCT	APP-Closed	WO	PCT/US2015/000348		WO2017/026976
8919	[redacted]								
8920	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL			PCT	APP-Closed	WO	PCT/IB2015/057375		WO2017/051216
8921	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY			PCT	APP-Closed	WO	PCT/US2016/048631		WO2017/058410
8922	SECURE FIRMWARE UPGRADE FOR CELLULAR IOT			PCT	APP-Closed	WO	PCT/US2016/040027		WO2017/019238
8923	[redacted]								
8924	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION			PCT	APP-Closed	WO	PCT/US2016/025569		WO2017/019132
8925	[redacted]								
8926	[redacted]								
8927	SYSTEMS AND METHODS FOR DISTRIBUTED FAIR RESOURCE ALLOCATION IN MULTI RADIO ACCESS TECHNOLOGY BASED HETEROGENEOUS NETWORKS			PCT	APP-Closed	WO	PCT/US2015/057148		WO2017/019121
8928	[redacted]								
8929	NETWORK DISCOVERY AND BEAM ACQUISITION FOR BEAM CELL OPERATION			PCT	APP-Closed	WO	PCT/US2015/000425		WO2017/023232
8930	[redacted]								
8931	DYNAMIC SPECTRUM ACCESS WITH FLEXIBLE BANDWIDTH FOR LICENSED SHARED ACCESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/025563		WO2017/023370
8932	[redacted]								
8933	RECEIVE BEAM INDICATION FOR 5G SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/000371		WO2017/023231
8934	[redacted]								
8935	PHYSICAL BROADCAST CHANNEL DESIGN			PCT	APP-Closed	WO	PCT/US2015/066922		WO2017/019120
8936	PHYSICAL BROADCAST CHANNEL DESIGN			PCT	APP-Closed	JP	2018-503665		2018-531528
8937	[redacted]								
8938	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT			PCT	APP-Closed	WO	PCT/US2016/025750		WO2017/019133
8939	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT			EPT	MTN-Closed	EP	16718592		3324627
8940	[redacted]								
8941	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT			PCT	APP-Closed	WO	PCT/US2015/000252		WO2017/018965
8942	[redacted]								
8943	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS			PCT	APP-Closed	WO	PCT/US2015/000254		WO2017/018966
8944	SYNCHRONIZATION SIGNALS AND CHANNEL STRUCTURE FOR NARROWBAND LTE DEPLOYMENTS			EPT	APP-Closed	EP	158287854		3326390
8945	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
6946	[redacted]								
6947	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/067077		WO2017/014802
6948	[redacted]								
6949									
6950	CHANNEL QUALITY INDEX (CQI) REPORTING FOR SUPERPOSITION TRANSMISSIONS SCHEMES			PCT	APP-Closed	WO	PCT/US2015/000351		WO2017/023230
6951	[redacted]								
6952	ENHANCED RACH (RANDOM ACCESS CHANNEL) DESIGN FOR 5G CIOT (CELLULAR INTERNET OF THINGS)			PCT	APP-Closed	WO	PCT/US2015/066340		WO2017/019119
6953	[redacted]								
6954	BEARER SPLITTING			PCT	APP-Closed	WO	PCT/US2015/065537		WO2017/011026
6955	[redacted]								
6956	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD			PCT	APP-Closed	WO	PCT/US2015/000296		WO2017/014716
6957	[redacted]								
6958	PERFORMING MISSION CRITICAL COMMUNICATIONS AT A USER EQUIPMENT (UE)			PCT	APP-Closed	WO	PCT/US2015/066149		WO2017/023352
6959	[redacted]								
6960	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE			PCT	APP-Closed	WO	PCT/US2015/000342		WO2017/018968
6961	[redacted]								
6962	IMS EMERGENCY CALL ROUTING TECHNIQUES			PCT	APP-Closed	WO	PCT/US2015/067357		WO2017/027058
6963	[redacted]								
6964	UCI FOR CARRIER AGGREGATION			PCT	APP-Closed	WO	PCT/US2015/000292		WO2017/026972
6965	[redacted]								
6966	OPTIMIZED SCHEDULING STRATEGIES FOR DUAL CONNECTIVITY AND LINK AGGREGATION			PCT	APP-Closed	WO	PCT/US2016/033608		WO2017/209554
6967	ENHANCED PHYSICAL SIGNAL STRUCTURE FOR LTE V2V COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2015/000486		WO2017/026983
6968	[redacted]								
6969	DEMODULATION IN WIRELESS COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2015/000346		WO2017/026975
6970	[redacted]								
6971	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING			PCT	APP-Closed	WO	PCT/US2015/067014		WO2017/027055
6972	[redacted]								
6973	MEASUREMENT FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/000350		WO2017/026977
6974	[redacted]								
6975	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO			PCT	APP-Closed	WO	PCT/IB2015/002620		WO2017/025798
6976	[redacted]								
6977	MULTI-USER MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS			PCT	APP-Closed	WO	PCT/US2015/000329		WO2017/026974
6978	[redacted]								
6979	HARQ FEEDBACK CONFIGURATION TECHNIQUES FOR BROADBAND WIRELESS COMMUNICATION NETWORKS			PCT	APP-Closed	WO	PCT/US2015/000441		WO2017/026979
6980	[redacted]								
6981	CONFIGURATION OF MEASUREMENT SUBFRAMES FOR A USER EQUIPMENT (UE)			PCT	APP-Closed	WO	PCT/US2016/068834		WO2017/027822
6982	[redacted]								
6983	METHODS TO ENABLE HIGH DATA RATE RELAY OPERATION USING D2D AIR-INTERFACE			PCT	APP-Closed	WO	PCT/US2015/000273		WO2017/026970
6984	[redacted]								
6985	RESOURCE ACCESS IN DEVICE TO DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/000294		WO2017/026973
6986	[redacted]								
6987	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS			PCT	APP-Closed	WO	PCT/US2016/041043		WO2017/027124
6988	[redacted]								
6989	METHOD OF MEASUREMENT GAP ENHANCEMENT			PCT	APP-Closed	WO	PCT/US2016/019984		WO2017/027066
6990	[redacted]								
6991									
6992	AUTOMATIC GAIN CONTROL GAIN ADJUSTMENT			DIV	APP-Closed	US	15/671748		US-2017-0339649-A1
6993	[redacted]								
6994	USER EQUIPMENT CAPABILITY REPORTING			PCT	APP-Closed	WO	PCT/US2015/067158		WO2017/027057
6995	[redacted]								
6996	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND			PCT	APP-Closed	WO	PCT/US2015/000447		WO2017/026981
6997	[redacted]								
6998	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION			PCT	APP-Closed	WO	PCT/US2016/025677		WO2017/030613
6999	[redacted]								
7000	BEAMFORMING TRAINING REFERENCE SIGNAL DESIGN			PCT	APP-Closed	WO	PCT/US2015/065341		WO2017/030602
7001	[redacted]								
7002	TRANSMIT BEAMFORMING			PCT	APP-Closed	WO	PCT/US2015/065161		WO2017/030601
7003	[redacted]								
7004	MACHINE TYPE COMMUNICATION RELAYING			PCT	APP-Closed	WO	PCT/US2015/000451		WO2017/030520
7005	[redacted]								
7006	FLEXIBLE CSI RS CONFIGURATION FOR FD-MIMO SYSTEMS			PCT	APP-Closed	WO	PCT/RU2015/000924		WO2017/111649
7007	FLEXIBLE CSI RS CONFIGURATION FOR FD-MIMO SYSTEMS			EPT	APP-Closed	EP	15881414.94		3395000

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7008	[redacted]								
7009	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION			PCT	APP-Closed	WO	PCT/US2015/000338		WO2017/034508
7010	[redacted]								
7011	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/000328		WO2017/111800
7012	ELECTRICAL SYSTEMS AND METHODS FOR PERFORMING OUT-OF-BAND COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2015/062077		WO2017/091188
7013	COMMUNICATION TERMINAL AND METHOD FOR RECEIVING DATA			NP	APP-Closed	US	15/356212		US-2017-0170991-A1
7014	[redacted]								
7015	CIRCUIT ARRANGEMENT MOBILE DEVICE AND METHOD FOR AMPLIFYING A SIGNAL			PCT	APP-Closed	WO	PCT/CN2015/096662		WO2017/049563
7016	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION IN RADIO COMMUNICATION			EPA	MTR-Closed	EP	16198557		3188398
7017	HYBRID I-Q POLAR TRANSMITTER WITH QUADRATURE LOCAL OSCILLATOR (LO) PHASE CORRECTION			PCT	APP-Closed	WO	PCT/US2017/017314		WO2017/160830
7018	APPARATUS FOR REDUCING A MAGNETIC COUPLING BETWEEN A FIRST ELECTRONIC CIRCUIT AND A SECOND ELECTRONIC CIRCUIT			PCT	APP-Closed	WO	PCT/IB2016/056346		WO2017/103702
7019	MULTI-HARMONIC MATCHING NETWORKS			PCT	APP-Closed	WO	PCT/US2016/063234		WO2017/112237
7020	AGGREGATED SIGNALING FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES			PCT	APP-Closed	WO	PCT/US2015/064820		WO2017/099786
7021	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/066835		WO2017/039737
7022	[redacted]								
7023	MANAGING ASPECTS OF RECEIVE BEAMFORMING			PCT	APP-Closed	WO	PCT/US2015/000376		WO2017/034509
7024	[redacted]								
7025	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/067290		WO2017/034607
7026	[redacted]								
7027	BEARER BINDING IN THE PRESENCE OF A UE-TO-NETWORK RELAY			PCT	APP-Closed	WO	PCT/US2015/000465		WO2017/034511
7028	[redacted]								
7029	INDICATION OF TDD UPLINK AND DOWNLINK CONFIGURATIONS			PCT	APP-Closed	WO	PCT/US2015/000260		WO2017/034506
7030	[redacted]								
7031	CIOT ARCHITECTURE FOR EFFICIENT DATA TRANSMISSION			PCT	APP-Closed	WO	PCT/US2016/023994		WO2017/027071
7032	[redacted]								
7033	AN APPARATUS AND METHOD FOR REPORTING SYSTEM FRAME NUMBER (SFN) AND SUBFRAME OFFSET IN DUAL CONNECTIVITY (DC) ENHANCEMENT			PCT	APP-Closed	WO	PCT/US2015/066631		WO2017/034608
7034	[redacted]								
7035	[redacted]								
7036	MULTI-USER BASED SPLITTING FOR MULTI-RAT AGGREGATION			PCT	APP-Closed	WO	PCT/US2015/065529		WO2017/027053
7037	[redacted]								
7038	COMMUNICATION OF CONGESTION CONTROL INFORMATION			PCT	APP-Closed	WO	PCT/US2015/000338		WO2016/116104
7039	[redacted]								
7040	FALLBACK MECHANISM TO DETECT ENHANCED COVERAGE USAGE			PCT	APP-Closed	WO	PCT/US2015/000514		WO2017/026986
7041	[redacted]								
7042	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS			PCT	APP-Closed	WO	PCT/US2015/000467		WO2017/026984
7043	[redacted]								
7044	DUAL CONNECTIVITY FOR RELIABILITY			PCT	APP-Closed	WO	PCT/US2015/066688		WO2017/039736
7045	[redacted]								
7046	WIRELESS PERSONAL AREA NETWORK UNDERLYING CELLULAR NETWORKS			PCT	APP-Closed	WO	PCT/US2015/067049		WO2017/039738
7047	[redacted]								
7048	GRANT-LESS PUSCH UPLINK			PCT	APP-Closed	WO	PCT/US2015/000339		WO2017/039564
7049	[redacted]								
7050	METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/067064		WO2017/039739
7051	[redacted]								
7052	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/067320		WO2017/048311
7053	[redacted]								
7054	SYSTEM AND METHOD FOR EMERGENCY SECURE USER PLANE LOCATION POSITIONING			NP	APP-Closed	US	14/978285		US-2017-0181200-A1
7055	EQUALIZER AND METHOD FOR EQUALIZING A RECEIVE SIGNAL			PCT	APP-Closed	WO	PCT/EP2016/077061		WO2017/097527
7056	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO			EPA	MTR-Closed	NL	1520196671	3185646	3185646
7057	COMMUNICATION DEVICE AND METHOD FOR SIGNAL DETERMINATION			NP	MTR-Closed	DE	1.02015E+12		1.02015E+11
7058	A CIRCUIT AND A METHOD FOR ATTACHING A TIME STAMP TO A TRACE MESSAGE			NP	APP-Closed	DE	1.02015E+12		1.02015E+11
7059	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/066969		WO2017/111882
7060	COMMUNICATION TERMINAL AND METHOD FOR CHANNEL ESTIMATION			PCT	APP-Closed	WO	PCT/US2015/066581		WO2017/105477
7061	DEVICE AND METHOD FOR DEVICE TO DEVICE COMMUNICATION			PCT	APP-Closed	WO	PCT/CN2015/098095		WO2017/107011
7062	[redacted]								
7063	AIR INTERFACE SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/020034		WO2017/044151
7064	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7065	[redacted]								
7066	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT			PCT	APP-Closed	WO	PCT/US2016/025292		WO2017/044155
7067	[redacted]								
7068	RADIO NETWORK ACCESS OF WEARABLE DEVICES			PCT	APP-Closed	WO	PCT/US2015/066666		WO2017/044143
7069	[redacted]								
7070	SLICEABLE RADIO ACCESS NETWORK ARCHITECTURE FOR WIRELESS COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2016/026071		WO2017/044153
7071	[redacted]								
7072	[redacted]								
7073	DEVICE AND METHOD FOR ENHANCED SEAMLESS MOBILITY			PCT	APP-Closed	WO	PCT/US2015/065720		WO2017/044142
7074	[redacted]								
7075	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION			PCT	APP-Closed	WO	PCT/US2015/065284		WO2017/044141
7076	[redacted]								
7077	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/067102		WO2017/044184
7078	[redacted]								
7079	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/050244		WO2017/044068
7080	[redacted]								
7081	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/050312		WO2017/048215
7082	[redacted]								
7083	[redacted]								
7084	BEAM DISCOVERY REPORTING FOR SPATIAL MULTIPLEXING			PCT	APP-Closed	WO	PCT/RU2015/000834		WO2017/111642
7085	SYSTEM AND METHOD FOR DOWNLINK CONTROL INDICATOR DESIGN IN BEAM AGGREGATION SYSTEM			PCT	APP-Closed	WO	PCT/US2016/028877		WO2017/095470
7086	[redacted]								
7087	SYSTEM AND METHOD FOR UPLINK SUBBAND BEAMFORMING			PCT	APP-Closed	WO	PCT/CN2016/079677		WO2017/181345
7088	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN			PCT	APP-Closed	WO	PCT/US2015/067078		WO2016/182602
7089	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN			PCT	APP-Closed	JP	2017-552022		2018-520528
7090	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS			PCT	APP-Closed	WO	PCT/US2015/066655		WO2016/204811
7091	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION			PCT	APP-Closed	WO	PCT/US2016/021489		WO2017/058281
7092	[redacted]								
7093	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT			PCT	APP-Closed	WO	PCT/US2015/067088		WO2017/027056
7094	SYSTEMS METHODS AND DEVICES FOR V2X SERVICES OVER WIRELESS WIDE AREA NETWORKS			PCT	APP-Closed	WO	PCT/US2016/019232		WO2017/052683
7095	[redacted]								
7096	SYSTEMS METHODS AND DEVICES FOR RESOURCE ALLOCATION ADJUSTMENTS FOR WIRELESS TRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2016/024605		WO2017/052686
7097	[redacted]								
7098	SYSTEMS METHODS AND DEVICES FOR CELLULAR SYNCHRONIZATION REFERENCES			PCT	APP-Closed	WO	PCT/US2016/024177		WO2017/052687
7099	[redacted]								
7100	DUAL RADIO ARCHITECTURE AND METHODS FOR ENHANCED SUPPORT OF V2X SERVICE WITH NETWORK ASSISTANCE			PCT	APP-Closed	WO	PCT/US2015/000181		WO2017/052488
7101	[redacted]								
7102	SYSTEMS METHODS AND DEVICES FOR SHARING A WIRELESS MEDIUM USING LISTEN BEFORE TALK			PCT	APP-Closed	WO	PCT/US2015/067108		WO2017/052677
7103	[redacted]								
7104	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS			PCT	APP-Closed	WO	PCT/US2016/025265		WO2017/052688
7105	[redacted]								
7106	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCH			PCT	APP-Closed	WO	PCT/US2015/000284		WO2017/026971
7107	[redacted]								
7108	V2X PERFORMANCE ENHANCEMENTS IN HIGH SPEED ENVIRONMENTS			PCT	APP-Closed	WO	PCT/US2015/000242		WO2017/052489
7109	[redacted]								
7110	SYSTEM INFORMATION CHANGE NOTIFICATION TECHNIQUES FOR WIRELESS COMMUNICATIONS NETWORKS			PCT	APP-Closed	WO	PCT/US2016/053846		WO2017/054007
7111	[redacted]								
7112	CONGESTION CONTROL FOR VEHICULAR-TO-ANYTHING SERVICES			PCT	APP-Closed	WO	PCT/US2016/025635		WO2017/052690
7113	[redacted]								
7114	SOLUTION FOR LOCAL BREAKOUT IN CELLULAR NETWORK			PCT	APP-Closed	WO	PCT/CN2016/079086		WO2017/177381
7115	RADIO COMMUNICATION DEVICE AND METHOD OF MOBILE RADIO CELL MEASUREMENT REPORTING			PCT	APP-Closed	WO	PCT/CN2015/097665		WO2017/101057
7116	LATTICE REDUCTION-AIDED SYMBOL DETECTION			PCT	APP-Closed	WO	PCT/US2015/058182		WO2017/074605
7117	FAST FOURIER TRANSFORM ARCHITECTURE			PCT	APP-Closed	WO	PCT/US2015/066963		WO2017/111681
7118	METHOD AND DEVICE FOR REPORTING DRIVE TEST MEASUREMENTS TO A MOBILE NETWORK			PCT	APP-Closed	WO	PCT/EP2017/054805		WO2017/167533

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2	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7119	METHOD AND APPARATUS FOR REDUCING POWER OF A CDMA MOBILE STATION BY CONTROLLED TRANSITION FROM CONTROL HOLD TO ACTIVE STATE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/014088		WO2003/096551
7120	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7121	FAST TRAFFIC CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	US	10/434416	7062263	US-2004-0005883-A1
7122	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7018011	10-0646084	10-2005-0010789
7123	CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/014801		WO2003/096718
7124	FAST TRAFFIC CHANNEL RECONNECTION SYSTEM AND METHOD	[redacted]	[redacted]	NP	MTR-Closed	TW	92112743	I227645	200410576
7125	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7126	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	FR	37396822	1510084	1510084
7127	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	EPT	MTR-Closed	GB	37396822	1510084	1510084
7128	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2004-7019898	10-0961198	10-2005-0016525
7129	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2003/018051		WO2003/104934
7130	POWER CONTROL OF PLURAL PACKET DATA CONTROL CHANNELS	[redacted]	[redacted]	NP	MTR-Closed	TW	92115021	I225339	200427249
7131	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7132	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025771		WO2017/058288
7133	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7134	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7135	MAPPING OF PHYSICAL BROADCAST CHANNEL (PBCH) REPETITION SYMBOLS FOR MACHINE-TYPE COMMUNICATION (MTC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025616		WO2017/052689
7136	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7137	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/067280		WO2017/058274
7138	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7139	ENHANCED PAGING MECHANISM FOR CELLULAR INTERNET OF THINGS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025741		WO2017/058287
7140	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7141	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7142	METHOD AND APPARATUS FOR APPLYING OVERLAID PERTURBATION VECTORS FOR GRADIENT FEEDBACK TRANSMIT ANTENNA ARRAY ADAPTATION	[redacted]	[redacted]	CIP	MTR-Closed	US	10/078925	7180956	
7143	METHOD AND APPARATUS FOR IMPROVING TRANSMIT ANTENNA WEIGHT TRACKING USING CHANNEL CORRELATIONS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	CIP	MTR-Closed	US	10/080728	7236538	
7144	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7145	METHOD AND APPARATUS FOR PROCESSING INTERRUPTS AT DYNAMICALLY SELECTABLE PRIORITIZATION LEVELS	[redacted]	[redacted]	NP	MTR-Closed	CN	315845.78	ZL031584578	1494002
7146	METHOD AND APPARATUS FOR PROCESSING INTERRUPTS AT DYNAMICALLY SELECTABLE PRIORITIZATION LEVELS	[redacted]	[redacted]	NP	MTR-Closed	TW	92109007	I220228	200404054
7147	METHOD AND APPARATUS ESTIMATING CELL INTERFERENCE AND NOISE FOR CDMA PACKET DATA CHANNELS	[redacted]	[redacted]	NP	MTR-Closed	TW	93106931	I240504	200503489
7148	PILOT SIGNAL ENHANCEMENTS FOR A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/025222		WO2005/018100
7149	PILOT SIGNAL ENHANCEMENTS FOR A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	93123430	I252642	200601640
7150	FLOW CONTROL FOR INTERFACES PROVIDING RETRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	US	10/686685	7165127	US-2005-0083836-A1
7151	FLOW CONTROL FOR INTERFACES PROVIDING RETRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	TW	93128434	I253263	200514397
7152	TRISTATE REQUESTS FOR FLEXIBLE PACKET RETRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/031351		WO2005/032035
7153	TRISTATE REQUESTS FOR FLEXIBLE PACKET RETRANSMISSION	[redacted]	[redacted]	NP	MTR-Closed	TW	93128969	I271956	200514378
7154	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7155	LEGACY-COMPATIBLE SIGNALING EXTENSION METHOD FOR BROADCAST/MULTICAST SERVICE INDICATIONS	[redacted]	[redacted]	NP	MTR-Closed	TW	93129952	I292673	200511873
7156	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7157	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	DE	47952064	6.020048E+12	1673950
7158	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	EP	47952064	1673950	1673950
7159	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	FR	47952064	1673950	1673950
7160	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	47952064	1673950	1673950
7161	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2004/034012		WO2005/039202
7162	MOBILE STATION CONNECTION MANAGEMENT UTILIZING SUITABLE PARAMETER INFORMATION	[redacted]	[redacted]	NP	MTR-Closed	TW	93131094	I248266	200515724
7163	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
7164	METHOD AND/OR ARCHITECTURE IMPLEMENTED IN HARDWARE FOR THE ADJUSTMENT OF MESSAGES WITH INDETERMINISTIC LENGTH	[redacted]	[redacted]	NP	MTR-Closed	TW	93131189	I285836	200532548
7165	PROCESSING MULTIPLEX SUBLAYER DATA UNIT DATA IN HARDWARE	[redacted]	[redacted]	NP	MTR-Closed	US	10/840492	7813186	US-2005-0249204-A1
7166	PROCESSING MULTIPLEX SUBLAYER DATA UNIT DATA IN HARDWARE	[redacted]	[redacted]	NP	MTR-Closed	TW	93135582	I303779	200618489
7167	METHOD AND/OR APPARATUS IMPLEMENTED IN HARDWARE TO DISCARD BAD LOGICAL TRANSMISSION UNITS (LTUS)	[redacted]	[redacted]	NP	MTR-Closed	TW	93133646	I315943	200537817
7168	READ ENABLE GENERATOR FOR A TURBO DECODER DEINTERLEAVED SYMBOL MEMORY	[redacted]	[redacted]	NP	MTR-Closed	US	10/877304	7266756	US-2005-0289432-A1
7169	READ ENABLE GENERATOR FOR A TURBO DECODER DEINTERLEAVED SYMBOL MEMORY	[redacted]	[redacted]	NP	MTR-Closed	TW	94121145	I306697	200601712

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7170	INCREMENT POWER SAVING IN BATTERY POWERED WIRELESS SYSTEM WITH SOFTWARE CONFIGURATION	[redacted]	[redacted]	NP	MTR-Closed	US	10/833364	7216259	US-2005-0157688-A1
7171	METHOD FOR CONSERVING POWER IN AN APPARATUS AND APPARATUS FOR CONSERVING POWER	[redacted]	[redacted]	NP	MTR-Closed	TW	93139505	I273488	200535696
7172	METHOD AND/OR APPARATUS FOR GENERATING A WRITE GATED CLOCK SIGNAL	[redacted]	[redacted]	NP	MTR-Closed	TW	94105210	I317208	200541214
7173	CANONICAL SIGNED DIGIT (CSD) COEFFICIENT MULTIPLIER WITH OPTIMIZATION	[redacted]	[redacted]	NP	MTR-Closed	US	11/032920	7680872	US-2006-0155793-A1
7174	COMBINED AUTOMATIC FREQUENCY CORRECTION AND TIME TRACK SYSTEM TO MINIMIZE SAMPLE TIMING ERRORS	[redacted]	[redacted]	NP	MTR-Closed	US	10/950702	7639766	US-2006-0068745-A1
7175	SYSTEM FOR MINIMIZING TIME-PULSE ERROR IN COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	CN	2.00511E+12		1871131
7176	COMBINED AUTOMATIC FREQUENCY CORRECTION AND TIME TRACK SYSTEM TO MINIMIZE SAMPLE TIMING ERRORS	[redacted]	[redacted]	NP	MTR-Closed	TW	94110169	I281326	200611503
7177	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	PCT	MTR-Closed	CN	2.00586E+12	ZL200580042033	101023617
7178	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	DE	57892697	6.02005E+11	1779578
7179	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	EP	57892697	1779578	1779578
7180	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	FR	57892697	1779578	1779578
7181	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	EPT	MTR-Closed	GB	57892697	1779578	1779578
7182	ACTIVE ACKNOWLEDGMENT SOURCE SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2005/028974		WO2006/020975
7183	TRI-STATE PULSE DENSITY MODULATOR	[redacted]	[redacted]	NP	MTR-Closed	US	11/107886	7283012	US-2006-0233234-A1
7184	GAIN CONTROL IN SIGNAL PROCESSING WITH FEED-FORWARD GAIN CORRECTION	[redacted]	[redacted]	NP	MTR-Closed	US	11/055009	7656975	US-2006-0176985-A1
7185	TRANSCODING METHOD FOR SWITCHING BETWEEN SELECTABLE MODE VOICE ENCODER AND AN ENHANCED VARIABLE RATE CODEC	[redacted]	[redacted]	NP	APP-Closed	US	11/064179		US-2006-0190246-A1
7186	ENHANCED SELF-CONTAINED TIME-DIVISION DUPLEX SUBFRAME STRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025737		WO2017/062062
7187	[redacted]								
7188	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054125		WO2017/062244
7189	[redacted]								
7190	BEARER-LESS ARCHITECTURE FOR A WIRELESS CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/032896		WO2017/082068
7191	[redacted]								
7192	RRM REQUIREMENT FOR D2D INTER-CARRIER DISCOVERY GAP	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054768		WO2017/062278
7193	[redacted]								
7194	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025492		WO2017/082061
7195	[redacted]								
7196	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/028281		WO2017/082065
7197	[redacted]								
7198	NETWORK UTILITY MAXIMIZATION WITH MULTI-RAT AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/020376		WO2017/062057
7199	[redacted]								
7200	MOBILE PHONE HAVING A DIRECTED BEAM ANTENNA	[redacted]	[redacted]	NP	MTR-Closed	US	11/051443	7199760	US-2006-0170599-A1
7201	MOBILE PHONE HAVING AN EASY-RECEIVE FEATURE FOR AN INCOMING CALL	[redacted]	[redacted]	NP	APP-Closed	US	11/013606		US-2006-0128448-A1
7202	[redacted]								
7203	HAND-HELD SCREEN-INTERFACE DEVICE	[redacted]	[redacted]	NP	APP-Closed	US	11/094912		US-2006-0227101-A1
7204	METHOD AND SYSTEM FOR ALLOCATING TRANSMIT POWER AMONG A PLURALITY OF CHANNELS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	US	11/178039		US-2007-0008923-A1
7205	METHOD AND SYSTEM FOR ALLOCATING TRANSMIT POWER AMONG A PLURALITY OF CHANNELS IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	CN	2.00618E+12		1861827
7206	REVERSE-LINK STRUCTURE FOR A MULTI-CARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	US	11/405830	7672286	US-2006-0268883-A1
7207	REVERSE-LINK STRUCTURE FOR A MULTI-CARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	MTR-Closed	IN	1701/MUMNP/2007	248229	1701/MUMNP/2007
7208	REVERSE-LINK STRUCTURE FOR A MULTI-CARRIER COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2006/014424		WO2006/113633
7209	[redacted]								
7210	TRANSMISSION SYSTEM AND METHOD FOR RADIO LINK PROTOCOL	[redacted]	[redacted]	NP	APP-Closed	US	11/448226		US-2007-0002864-A1
7211	[redacted]								
7212	[redacted]								
7213	POWER EFFICIENT SIGNALING FOR ASYMMETRIC MULTI-CARRIER COMMUNICATIONS	[redacted]	[redacted]	NP	MTR-Closed	IN	1646/DEL/2006	280319	1646/DEL/2006
7214	[redacted]								
7215	INTER-LAYER COMMUNICATION OF RECEIPT CONFIRMATION FOR RELEASING RETRANSMISSION BUFFER CONTENTS	[redacted]	[redacted]	NP	MTR-Closed	CN	200610142548X	ZL200610142548X	1996823
7216	AN APPARATUS FOR WIRELESS COMMUNICATION AND A METHOD OF FACILITATING A WIRELESS COMMUNICATION HAVING MULTI-LAYERED COMMUNICATION MODEL	[redacted]	[redacted]	NP	MTR-Closed	IN	1778/MUM/2006	257031	1778/MUM/2006
7217	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/067071		WO2017/082050
7218	[redacted]								
7219	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	[redacted]	[redacted]	NP	MTR-Closed	DE	1.02015E+12		1.02015E+11
7220	JOINT NONCOHERENT DEMODULATION AND CARRIER FREQUENCY OFFSET CORRECTION BASED ON NON-LINEAR FILTERING	[redacted]	[redacted]	NP	APP-Closed	US	14/978705		US-2017-0180182-A1
7221	JOINT NONCOHERENT DEMODULATION AND CARRIER FREQUENCY OFFSET CORRECTION BASED ON NON-LINEAR FILTERING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/058444		WO2017/112072
7222	DEVICE AND METHOD FOR USER ORIGINATED MULTIPLE CONNECTION MANAGEMENT TRANSACTIONS VIA CIRCUIT SWITCHED FALLBACK	[redacted]	[redacted]	EPA	MTR-Closed	EP	161984349		3197234
7223	METHOD AND MIGRATION MANAGER COMPONENT FOR TRANSFERRING AN APPLICATION AND SYSTEM FOR MANAGING TERMINAL DEVICE COMMUNICATION CONNECTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2015/088211		WO2017/107044
7224	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SELECTION OR RESELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066544		WO2017/105474
7225	INTERFERENCE MITIGATION IN CELLULAR NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/018262		WO2017/172103

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7226	A Successive Joint Channel Estimation based Interference Cancellation Scheme against Colliding Interferences	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066832		WO2017/105509
7227	METHOD AND APPARATUS FOR CONTROLLING GAIN IN SIGNAL RECEIVER	[redacted]	[redacted]	NP	MTR-Closed	IN	1777/MUM/2006	235721	1777/MUM/2006
7228	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7229	System and method for feeding back information to a user terminal from multiple hubs	[redacted]	[redacted]	NP	MTR-Closed	US	11/586986	8605294	US-2007-0111668-A1
7230	METHOD FOR EFFICIENT FEEDBACK OF RECEPTION-QUALITY INFORMATION FROM MULTIPLE HUBS TO A SINGLE USER-TERMINAL	[redacted]	[redacted]	EPA	MTR-Closed	FR	60234440	1786230	1786230
7231	METHOD FOR EFFICIENT FEEDBACK OF RECEPTION-QUALITY INFORMATION FROM MULTIPLE HUBS TO A SINGLE USER-TERMINAL	[redacted]	[redacted]	EPA	MTR-Closed	GB	60234440	1786230	1786230
7232	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7233	ITERATIVE CHANNEL PREDICTION	[redacted]	[redacted]	NP	MTR-Closed	US	11/533382	7706453	US-2007-0064840-A1
7234	METHOD AND SYSTEM FOR PREDICTING COMMUNICATION CHANNEL PARAMETER	[redacted]	[redacted]	NP	MTR-Closed	IN	1510/MUM/2006	242867	
7235	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7236	SAS INTERFERENCE MITIGATION OPTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/041722		WO2017/065852
7237	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7238	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/023689		WO2017/065825
7239	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7240	CHANNEL STATE INFORMATION FEEDBACK CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/078442		WO2017/063345
7241	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7242	FLEXILE UNIVERSAL EXTENDED FRAME STRUCTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025773		WO2017/065830
7243	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7244	ENHANCED RESOURCE MAPPING SCHEME	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025067		WO2017/065826
7245	ENHANCED RESOURCE MAPPING SCHEME	[redacted]	[redacted]	EPT	APP-Closed	EP	16716755O		3363173
7246	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7247	NAK MESSAGE TRANSMISSION WITH QUICKNAK INDICATION	[redacted]	[redacted]	NP	MTR-Closed	IN	2491/MUM/2007	254050	
7248	EFFICIENT COMPUTATION OF THE MODULO OPERATION BASED ON DIVISOR (2N-1)	[redacted]	[redacted]	NP	MTR-Closed	US	11/456110	7689125	US-2008-0010332-A1
7249	EFFICIENT COMPUTATION OF THE MODULO OPERATION BASED ON DIVISOR (2N-1)	[redacted]	[redacted]	NP	MTR-Closed	CN	2.00716E+12	ZL200710080787.07	101021777
7250	COMPUTATION OF A MOD (2N-1)	[redacted]	[redacted]	EPA	APP-Closed	EP	70132859		1878523
7251	COMPUTATION OF A MOD (2 N - 1)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2007/064370		WO2008/005592
7252	ACCESS TERMINAL PAGING IMPROVEMENTS	[redacted]	[redacted]	NP	MTR-Closed	IN	1054/MUM/2008	260912	1054/MUM/2008
7253	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7254	SYSTEM AND METHOD FOR IMPLEMENTING PREAMBLE CHANNEL IN WIRELESS COMMUNICATION SYSSTEM	[redacted]	[redacted]	NP	APP-Closed	US	11/844209		US-2008-0063105-A1
7255	SYSTEM AND METHOD FOR IMPLEMENTING PREAMBLE CHANNEL IN WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	APP-Closed	IN	1740/MUM/2007		1740/MUM/2007
7256	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7257	SYSTEMS AND METHODS FOR DETERMINING SLOTTED MODE OPERATION TIMING IN A HYBRID ACCESS TERMINAL	[redacted]	[redacted]	NP	MTR-Closed	IN	1884/MUM/2007	252548	1884/MUM/2007
7258	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7259	FEMTOCELL BASE STATION WITH MOBILE STATION CAPABILITY	[redacted]	[redacted]	NP	MTR-Closed	IN	2048/MUM/2008	266493	2048/MUM/2008
7260	DEVICES AND METHODS FOR ROBUST MEASUREMENT AND DATA RECEIVING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/021440		WO2017/074488
7261	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7262	COMMUNICATION DEVICES HAVING AN ENERGY MANAGEMENT INTERFACE	[redacted]	[redacted]	NP	APP-Closed	US	14/970577		US-2017-0181105-A1
7263	CONTENTION WINDOW SIZE ADAPTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024455		WO2017/069798
7264	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7265	METHOD APPRATUS AND SYSTEM FOR REPORTING BEAM REFERENCE SIGNAL RECEIVING POWER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/078388		WO2017/067138
7266	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7267	A FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	PCT	MTR-Closed	CN	18137496	ZL018137490	1446409
7268	A FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	PCT	MTR-Closed	DE	10196478	10196478	10196478
7269	A FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	PCT	MTR-Closed	GB	3010436	2381723	2381723
7270	A FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	NP	MTR-Closed	MY	PI20013665	MY-138678-A	
7271	A FAMILY OF LINEAR MULTI-USER DETECTORS (MUDS)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IL2001/000709		WO2002/013491
7272	AGGREGATED WIRELESS DRIVER AND METHOD	[redacted]	[redacted]	NP	APP-Closed	US	14/937412		US-2017-0135137-A1
7273	METHODS AND APPARATUSES FOR PARALLEL DECODING AND DATA PROCESSING OF TURBO CODES	[redacted]	[redacted]	NP	APP-Closed	US	12/344302		US-2009-0172495-A1
7274	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7275	DEVICE AND METHOD FOR REBUILDING CONNECTION IN MOBILE COMMUNICATION SYSTEM ENVIRONMENT	[redacted]	[redacted]	NP	APP-Closed	CN	2.0081E+12		101409606
7276	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7277	APPARATAUS AND METHOD FOR ALLEVIATING BARRED ACCESS IN MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	CNT	MTR-Closed	US	13/348157	8817746	US-2012-0113857-A1
7278	DEVICE AND METHOD TO REMOVE ACCESS RESTRICTION AND CHIP GROUP	[redacted]	[redacted]	NP	APP-Closed	CN	2.0081E+12		101541059
7279	APPARATUS METHOD AND CHIPSET FOR ALLEVIATING BARRED ACCESS IN MOBILE COMMUNICATION SYSTEM	[redacted]	[redacted]	NP	MTR-Closed	TW	98113440	I377855	201014401
7280	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7281	SYNCHRONIZATION METHOD FOR OFDM SYSTEM AND SYNCHRONIZATION APPARATUS THEREOF	[redacted]	[redacted]	NP	APP-Closed	CN	2.00981E+12		101505294
7282	APPARATUS AND METHOD FOR REVERSE LINK TRANSMISSION IN AN ACCESS TERMINAL	[redacted]	[redacted]	NP	MTR-Closed	TW	98120223	I403114	201037993
7283	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7284	APPARATUS FOR REDUCING AN AMPLITUDE IMBALANCE AND A PHASE IMBALANCE BETWEEN AN IN-PHASE SIGNAL AND A QUADRATURE SIGNAL	[redacted]	[redacted]	EPA	APP-Closed	EP	151999075		3182604
7285	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7286	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7287	A CIRCUIT SERVICE PASSAGE METHOD AND APPARATUS	[redacted]	[redacted]	NP	MTR-Closed	CN	2.50931E+12	ZL200910202030233	101674610
7288	DISCOVERY REFERENCE SIGNAL TRANSMISSION FOR LTE IN UNLICENSED BAND	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/060496		WO2017/026985
7289	USER PLANE RESOURCE ALLOCATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024271		WO2017/078776
7290	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7291	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/049380		WO2017/078837
7292	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7293	METHOD APPARATUS AND SYSTEM FOR SPONSORED DATA CONNECTIVITY RELATED INFORMATION CONTROL AND TRANSMISSION IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/078272		WO2017/075936
7294	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7295	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024440		WO2017/074489
7296	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7297	MOBILITY MANAGEMENT FOR SOFTWARE DEFINED RADIO ACCESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025403		WO2017/082948
7298	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7299	DEVICE METHOD AND SYSTEM OF REVERSE LINK MOBILE TRANSMIT DIVERSITY	[redacted]	[redacted]	NP	APP-Closed	CN	2.01016E+12		101902308
7300	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/020096		WO2017/074487
7301	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7302	QUALITY OF SERVICE PROVISIONING FRAMEWORK FOR A SDN-BASED CELLULAR NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025399		WO2017/074495
7303	QUALITY OF SERVICE PROVISIONING FRAMEWORK FOR A SDN-BASED CELLULAR NETWORK ARCHITECTURE	[redacted]	[redacted]	PCT	APP-Closed	CN	2.01688E+12		108141781
7304	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7305	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7306	DISCOVERY REFERENCE SIGNALING FOR DYNAMICALLY-TIMED TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025608		WO2017/074496
7307	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7308	SLICE-BASED OPERATION IN WIRELESS NETWORKS WITH END-TO-END NETWORK SLICING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/020027		WO2017/074486
7309	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7310	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7311	REFERENCE SIGNAL FOR RECEIVE BEAM REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025622		WO2017/074497
7312	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7313	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7314	DISTINGUISHING SUBFRAMES IN A DOWNLINK TRANSMISSION BURST	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024803		WO2017/074493
7315	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7316	SECURE CONNECTION OF CELLULAR DEVICES WITHOUT USING A CORE CELLULAR NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/041003		WO2017/078804
7317	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7318	SHORT TRANSMISSION TIME INTERVAL (TTI)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025746		WO2017/078788
7319	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7320	ANTENNA PORT MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038971		WO2017/078798
7321	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7322	RESTORING VIRTUAL NETWORK FUNCTION (VNF) PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/033002		WO2017/078790
7323	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7324	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024447		WO2017/078775
7325	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7326	RAN RE-ARCHITECTURE FOR NETWORK SLICING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/020029		WO2017/078770
7327	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7328	CHANNEL STATE INFORMATION (CSI) MEASUREMENTS AND CSI REPORTING IN LICENSED ASSISTED ACCESS (LAA)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/048145		WO2017/078826
7329	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7330	SYNCHRONIZATION SIGNAL DESIGN FOR NARROWBAND INTERNET OF THINGS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/040122		WO2017/078802
7331	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7332	FULL DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025711		WO2017/078785
7333	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7334	Apparatus System and Method for Access Procedure Enhancements	[redacted]	[redacted]	NP	MTR-Closed	US	12/875391	9025572	US-2011-0051697-A1
7335	Distributed Scheduling Method for Fronthaul-Based C-RAN Wireless Network Architecture	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2015/088861		WO2017/107106
7336	MULTIBAND DATA DELIVERY DEVICE AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/000250		WO2017/111778
7337	METHODS AND DEVICES FOR MANAGING PACKET DATA NETWORK CONNECTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/014210		WO2017/142672
7338	TIME GRID WITH TIME DIVISION DUPLEX SWITCHING INTERVALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025630		WO2017/065829

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7339	[redacted]								
7340									
7341									
7342									
7343									
7344									
7345									
7346	MOBILE COMMUNICATION DEVICES SERVICE NETWORKS AND METHODS FOR MANAGING OPERATION OF A REGISTRATION PROCEDURE FOR MACHINE-TO-MACHINE (M2M) COMMUNICATIONS			NP	MTR-Closed	US	13/849075	9148883	US-2013-0265990-A1
7347	[redacted]								
7348	MECHANISMS FOR SINGLE FREQUENCY NETWORKS IN HIGH-SPEED MOBILE SCENARIOS			PCT	APP-Closed	WO	PCT/US2016/035734		WO2017/082951
7349	MECHANISMS FOR SINGLE FREQUENCY NETWORKS IN HIGH-SPEED MOBILE SCENARIOS			PCT	APP-Closed	CN	2.0168E+12		108352865
7350	[redacted]								
7351	[redacted]								
7352	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENT FOR NARROW BAND MACHINE-TYPE COMMUNICATION			PCT	APP-Closed	WO	PCT/CN2016/088121		WO2017/080229
7353	[redacted]								
7354	CENTRALIZED RECORDING AND PROCESSING OF RECEIVED PACKET PARAMETERS			NP	MTR-Closed	US	12/701694	8681786	US-2011-0194555-A1
7355	FAST RESELECTION TO OTHER RAT AFTER CSFB			NP	MTR-Closed	IN	289/MUM/2011	284206	289/MUM/2011
7356	[redacted]								
7357									
7358	MOBILE COMMUNICATION DEVICE AND REGISTER STATE RETURNING METHOD OF MACHINE TYPE COMMUNICATION DATA			NP	APP-Closed	CN	2.0111E+12		102202345
7359	[redacted]								
7360									
7361	APPARATUS AND METHOD FOR INTERNETWORKING INTERFACE IN MULTIMODE WIRELESS COMMUNICATION			NP	MTR-Closed	US	13/197179	9125126	US-2012-0068823-A1
7362	[redacted]								
7363									
7364	MOBILE-TERMINATED PACKET TRANSMISSION			PCT	APP-Closed	WO	PCT/US2016/063999		WO2017/095809
7365	MOBILE-TERMINATED PACKET TRANSMISSION			PCT	APP-Closed	CN	2.0168E+12		108353033
7366	[redacted]								
7367									
7368									
7369	PROBLEM WITH GCSNA ARQ			NP	MTR-Closed	US	13/345963	8693467	US-2012-0176908-A1
7370	[redacted]								
7371	ACOUSTIC SHOCK PROTECTION DEVICE AND METHOD THEREOF			NP	MTR-Closed	US	13/557230	8958322	US-2013-0030795-A1
7372	[redacted]								
7373									
7374	SIGNAL AMPLIFYING CIRCUIT AND SIGNAL AMPLIFYING METHOD			NP	APP-Closed	CN	2.0101E+12		101834565
7375	MOBILE COMMUNICATION DEVICE AND INTEGRATED CIRCUIT THEREOF			NP	MTR-Closed	US	13/953464	9072119	US-2014-0038986-A1
7376	[redacted]								
7377	ECALL SYSTEM AND METHOD			NP	APP-Closed	US	14/842551		US-2015-0264548-A1
7378	CALLING CONTROL DEVICE AND METHOD BASED ON SERVICE PRIORITY			NP	APP-Closed	CN	2.0141E+12		104080110
7379	[redacted]								
7380									
7381	RATE-COMPATIBLE OPERATION WITH LOW DENSITY PARITY-CHECK CODES			PCT	APP-Closed	WO	PCT/US2016/025318		WO2017/091244
7382	[redacted]								
7383	MILLIMETER WAVE BROADCAST AND UNICAST CHANNEL DESIGN AND GENERIC TRANSMIT ARCHITECTURE			PCT	APP-Closed	WO	PCT/US2016/025549		WO2017/095471
7384	MILLIMETER WAVE BROADCAST AND UNICAST CHANNEL DESIGN AND GENERIC TRANS[redacted]								
7385	SYSTEMS METHODS AND DEVICES FOR MITIGATING BEAM INTERFERENCE IN BEAM BASED CELL-LESS OPERATION			PCT	APP-Closed	WO	PCT/US2016/024638		WO2017/095467
7386	[redacted]								
7387	A TIME DIVISION DUPLEX (TDD) SYSTEM WITH A LOW LATENCY AND HIGH THROUGHPUT SUBFRAME STRUCTURE			PCT	APP-Closed	WO	PCT/US2016/024474		WO2017/091243
7388	[redacted]								
7389	APPARATUSES AND METHODS FOR COORDINATING OPERATIONS OF MULTIPLE WIRELESS COMMUNICATIONS MODULES WITH MULTIPLE SUBSCRIBER NUMBERS			CNT	APP-Closed	US	15/088301		US-2016-0219427-A1
7390	[redacted]						[redacted]		
7391	MOBILE COMMUNICATION DEVICE AND OPERATION COORDINATION METHOD			NP	APP-Closed	CN	2.0111E+12		102143481

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7392	EVENTS TO TRIGGER BRS-RF (BEAM REFERENCE SIGNAL RECEIVED POWER) REPORT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024476		WO2017/099830
7393	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7394	PROVIDING DIFFERENT RADIO ACCESS NETWORKS INDEPENDENT STANDARDIZED ACCESS TO A CORE NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/032514		WO2017/099841
7395	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7396	SYSTEMS METHODS AND DEVICES FOR ADDING NON-PROVISIONED CELLULAR DEVICES TO A SUBSCRIPTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/027765		WO2017/180149
7397	CHANNEL STATE INFORMATION REFERENCE SIGNAL GENERATION WITH REDUCED ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SYMBOLS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024671		WO2017/099834
7398	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7399	CONTROL SIGNALING IN MULTIPLE BEAM OPERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024467		WO2017/099831
7400	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7401	DEVICES AND METHODS OF MOBILITY ENHANCEMENT AND WEARABLE DEVICE PATH SELECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/023802		WO2017/099828
7402	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7403	PARTIAL SUBFRAME TRANSMISSION IN LICENSED ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/036920		WO2017/078796
7404	SYNCHRONIZATION SIGNALS FOR LICENSE ASSISTED ACCESS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2015/066299		WO2017/078656
7405	MULTI-SUBFRAME UPLINK SCHEDULING IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024612		WO2017/099832
7406	MULTI-SUBFRAME UPLINK SCHEDULING IN UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	CN	2.0168E+12		108293256
7407	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7408	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7409	TRANSMIT AMPLITUDE AND PHASE MODULATION BASED ON TWO CONSTANT-AMPLITUDE PHASORS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/016325		WO2017/155642
7410	TRANSMISSION POWER CONTROL METHODS AND DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/020939		WO2017/172275
7411	APPARATUSES AND METHODS FOR COMPENSATING PHASE FLUCTUATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2017/050409		WO2017/153853
7412	HORIZONTAL NETWORK SLICING IN A WIRELESS NETWORK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/020111		WO2017/099828
7413	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7414	DOWNLINK REACHABILITY FOR ULTRA LOW POWER SAVING DEVICES USING D2D	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/028786		WO2017/099837
7415	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7416	DEVICES AND METHOD FOR CELL SEARCH AND DETECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/017746		WO2017/172077
7417	PROCESSING TRACING INFORMATION OF A RADIO SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/017291		WO2017/180429
7418	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/078245		WO2017/166259
7419	METHODS AND COMMUNICATION DEVICES FOR PERFORMING CELL SEARCH AND DETECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/017857		WO2017/165017
7420	METHOD APPARATUS AND SYSTEM FOR BEAM ACQUISITION IN A WIRELESS SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/073534		WO2017/132948
7421	SYNTHESIS DEVICE AND SYSTEM FOR GENERATING CHANNEL ESTIMATION FILTER COEFFICIENTS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2017/051399		WO2017/153079
7422	SYSTEM AND METHODS FOR MTC UES WITH SCALABLE BANDWIDTH SUPPORT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025658		WO2017/105538
7423	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7424	MULTIPLEXING OF CONTROL SIGNALING AND DATA TRANSMISSION IN ENHANCED FRAME STRUCTURES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025140		WO2017/111988
7425	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7426	GROUP HANDOVER FOR MISSION CRITICAL APPLICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/024923		WO2017/119919
7427	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7428	SCHEDULING REQUEST IN EXTREMELY HIGH FREQUENCY SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/023362		WO2017/116491
7429	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7430	AN ARRANGEMENT FOR CONCURRENT DETECTION OF SIGNALS IN A RECEIVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/044087		WO2018/044439
7431	TRANSCEIVERTRANSMITTERRECEIVER AND METHOD FOR DETERMINING A MINIMUM SUPPLY VOLTAGE FOR RECEIVERS AND TRANSMITTERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2017/050648		WO2017/168264
7432	DETERMINATION OF AN ADVANCED PHYSICAL UPLINK CHANNEL RESOURCE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/030171		WO2017/119921
7433	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7434	ENCODING AND DECODING USING LOW-DENSITY PARITY-CHECK MATRICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/032931		WO2017/119922
7435	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7436	TECHNIQUES FOR INSTANTIATION AND TERMINATION OF VIRTUALIZED NETWORK FUNCTIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055070		WO2017/119932
7437	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7438	SECTOR SWEEPS FOR ESTABLISHING TWO-WAY DATA COMMUNICATIONS WITH DIRECTIONAL ANTENNAS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/023585		WO2017/164846
7439	OPPORTUNISTIC GUARD BAND ACCESS FOR OPPORTUNISTIC INTERNET OF THINGS (IoT) DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/025774		WO2017/171885
7440	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/053759		WO2017/123286
7441	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7442	NB-IOT SYNCHRONIZATION SIGNALS WITH OFFSET INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/040105		WO2017/119925
7443	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7444	PERFORMANCE MONITORING TECHNIQUES FOR VIRTUALIZED RESOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055071		WO2017/119933
7445	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7446	UPLINK DM-RS TRANSMISSION FOR PUSCH TRANSMISSIONS WITH SHORTENED TTI	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038090		WO2017/135988
7447	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7448	MULTI-SHOT APERIODIC CHANNEL STATE INFORMATION REPORT FOR FULL DIMENSION-MULTIPLE INPUT MULTIPLE OUTPUT SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/016479		WO2017/136706

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7449	[redacted]								
7450	DYNAMIC HARQ CONFIGURATION AND BITMAP BASED ACK/NACK			PCT	APP-Closed	WO	PCT/US2016/065867		WO2017/123356
7451	[redacted]								
7452	CELLULAR INTERNET OF THINGS (CIOT) OPTIMIZATIONS FOR NARROWBAND (NB) AND NON-NB IOT NETWORKS			PCT	APP-Closed	WO	PCT/US2016/068586		WO2017/123417
7453	[redacted]								
7454	ACKNOWLEDGEMENT (ACK) TRANSMISSIONS USING A SELF-CONTAINED SUBFRAME STRUCTURE			PCT	APP-Closed	WO	PCT/US2016/032929		WO2017/123275
7455	[redacted]								
7456	5G FDD LOW LATENCY TRANSMISSION SUBFRAME STRUCTURE SYSTEM AND METHOD OF USE			PCT	APP-Closed	WO	PCT/US2016/035037		WO2017/123276
7457	[redacted]								
7458	A MULTIPLE BEAM MULTIPLEINPUT-MULTIPLE-OUTPUT SYSTEM			PCT	APP-Closed	WO	PCT/CN2016/078444		WO2017/173567
7459	APPARATUS AND METHOD FOR CONTROL SIGNALING OF CSI-RS			PCT	APP-Closed	WO	PCT/CN2016/077515		WO2017/166024
7460	NETWORK FUNCTION VIRTUALIZATION			PCT	APP-Closed	WO	PCT/US2016/030268		WO2017/189015
7461	[redacted]								
7462	HYBRID OPEN-LOOP AND CLOSED-LOOP BEAMFORMING			PCT	APP-Closed	WO	PCT/US2016/025701		WO2017/171867
7463	REFERENCE SIGNAL AND INTERFERENCE MEASUREMENT FOR JOINT SCHEDULER IN FULL-DUPLEX CELLULAR SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/024837		WO2017/171746
7464	METHOD APPARATUS AND SYSTEM FOR TRANSMISSION ACKNOWLEDGEMENT CONTROL IN A WIRELESS NETWORK			PCT	APP-Closed	WO	PCT/CN2016/077422		WO2017/161583
7465	CORE NETWORK DESIGN FOR MISSION-CRITICAL IOT			PCT	APP-Closed	WO	PCT/US2016/039761		WO2018/004529
7466	NARROW-BAND INTERNET-OF-THINGS ACCESS CONTROL MECHANISMS AND METHODS			PCT	APP-Closed	WO	PCT/US2017/013258		WO2017/123812
7467	[redacted]								
7468	INFORMATIONALLY EFFICIENT ERROR CORRECTION CODING			PCT	APP-Closed	WO	PCT/US2016/031781		WO2017/123273
7469	[redacted]								
7470	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION OF A CHANNEL RASTER FREQUENCY OFFSET			PCT	APP-Closed	WO	PCT/US2016/031587		WO2017/123279
7471	[redacted]								
7472	[redacted]								
7473	NETWORK SLICE SELECTION IN NETWORK SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/039854		WO2017/123277
7474	[redacted]								
7475	DEVICES AND METHODS FOR PROVIDING 5G UPLINK REQUEST			PCT	APP-Closed	WO	PCT/US2016/023952		WO2017/127128
7476	[redacted]								
7477	SAS CONTROLLED INTERFERENCE MANAGEMENT			PCT	APP-Closed	WO	PCT/US2016/041643		WO2018/009227
7478	METHOD OF CSI-RS TRANSMISSION IN SPECIAL SUBFRAMES			PCT	APP-Closed	WO	PCT/US2016/040156		WO2017/135990
7479	[redacted]								
7480	DISCOVERY REFERENCE SIGNAL TRANSMISSION WINDOW AND POSITION IDENTIFICATION			PCT	APP-Closed	WO	PCT/US2016/066337		WO2017/127181
7481	[redacted]								
7482	SYSTEM AND METHOD FOR SYSTEM INFORMATION TRANSMISSION IN STAND-ALONE MMWAVE SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/039085		WO2017/131810
7483	[redacted]								
7484	[redacted]								
7485	METHODS AND DEVICES FOR SPUR CANCELLATION IN DIGITAL PHASE LOCKED LOOPS			EPA	APP-Closed	EP	17158557		3226420
7486	WIRELESS POWER TRANSMISSION			PCT	APP-Closed	WO	PCT/US2017/015991		WO2017/172031
7487	METHODS AND MOBILE COMMUNICATION DEVICES FOR PERFORMING SPUR RELOCATION FOR PHASE-LOCKED LOOPS			PCT	APP-Closed	WO	PCT/US2017/020255		WO2017/172219
7488	IMPEDANCE MATCHING MULTIPLE COILS IN AN ELECTRONIC DEVICE			PCT	APP-Closed	WO	PCT/US2017/020272		WO2017/172223
7489	APPARATUSES AND METHODS FOR GENERATING A SECOND DIGITAL SIGNAL BASED ON A FIRST DIGITAL SIGNAL			PCT	APP-Closed	WO	PCT/IB2017/050662		WO2017/168265
7490	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE			PCT	APP-Closed	WO	PCT/US2017/019254		WO2017/172140
7491	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA			PCT	APP-Closed	WO	PCT/US2017/019245		WO2017/172139
7492	COMMUNICATION DEVICE AND A METHOD FOR DETERMINING AN INFORMATION FROM ANOTHER APPARATUS			PCT	APP-Closed	WO	PCT/CN2016/078334		WO2017/166295
7493	COMMUNICATION DEVICE AND METHOD FOR REDUCING INTERFERENCE			PCT	APP-Closed	WO	PCT/CN2016/078286		WO2017/166274
7494	USER EQUIPMENT (UE) AND METHODS FOR RECEPTION OF DOWNLINK DATA SERVICES			PCT	APP-Closed	WO	PCT/US2016/035247		WO2017/209748
7495	SPREADING OPTIONS FOR NON-ORTHOGONAL MULTIPLE ACCESS			PCT	APP-Closed	WO	PCT/US2016/064201		WO2017/139005
7496	[redacted]								
7497	SYSTEM AND METHOD FOR CONTROL CHANNEL BEAM ASSUMPTION			PCT	APP-Closed	WO	PCT/CN2016/087474		WO2017/133173
7498	[redacted]								
7499	APPARATUS SYSTEM AND METHOD OF COMMUNICATING A ZONE IDENTIFIER FOR MANAGEMENT OF SHARED SPECTRUM RESOURCES			PCT	APP-Closed	WO	PCT/US2017/016822		WO2017/139206
7500	[redacted]								
7501	UPLINK BEAM REFINEMENT			PCT	APP-Closed	WO	PCT/US2016/040079		WO2017/131611
7502	[redacted]								
7503	REFERENCE SIGNALS AND PHYSICAL BROADCAST CHANNEL FOR 5G SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/035276		WO2017/131606

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7504	[redacted]								
7505	IMPROVED SIGNALING FOR BATTERY EFFICIENT STATE TRANSITION IN PCH STATES			PCT	APP-Closed	WO	PCT/US2016/033152		WO2017/200541
7506	METHOD FOR CRC AMBIGUITY AVOIDANCE IN 5G DCI DECODING			PCT	APP-Closed	WO	PCT/US2016/040562		WO2018/084631
7507	RATE MATCHING USING LOW-DENSITY PARITY-CHECK CODES			PCT	APP-Closed	WO	PCT/US2016/041386		WO2017/131813
7508	[redacted]								
7509	LOW LATENCY IN WIRELESS COMMUNICATION SYSTEM			PCT	APP-Closed	WO	PCT/US2016/069525		WO2017/136079
7510	[redacted]								
7511	PHYSICAL DOWNLINK SHARED CHANNEL TRANSMISSION WITH SHORT TRANSMISSION TIME INTERVAL			PCT	APP-Closed	WO	PCT/US2016/039580		WO2017/135989
7512	[redacted]								
7513	RESOURCE ALLOCATION IN LOW-LATENCY WIRELESS SYSTEMS			PCT	APP-Closed	WO	PCT/US2017/016280		WO2017/136592
7514	[redacted]								
7515	LISTEN-BEFORE-TALK (LBT) FAILURE DURING A RANDOM ACCESS PROCEDURE			PCT	APP-Closed	WO	PCT/US2017/016074		WO2017/136458
7516	[redacted]								
7517	SENSING-BASED COLLISION AVOIDANCE FOR V2V COMMUNICATION			PCT	APP-Closed	WO	PCT/US2016/067213		WO2017/135998
7518	[redacted]								
7519	APPARATUS SYSTEM AND METHOD OF VEHICULAR USER EQUIPMENT (UE) COMMUNICATION			PCT	APP-Closed	WO	PCT/US2016/053226		WO2017/136001
7520	[redacted]								
7521	CROSS TRANSMISSION OPPORTUNITY (TXOP) SCHEDULING			PCT	APP-Closed	WO	PCT/US2016/059511		WO2017/136609
7522	[redacted]								
7523	DYNAMIC RESOURCE ALLOCATIONS AND TRANSMISSION SCHEMES FOR XPUCCH (5G PUCCH)			PCT	APP-Closed	WO	PCT/US2016/060498		WO2017/135991
7524	[redacted]								
7525	SOUNDING REFERENCE SIGNAL IN CELLULAR SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/069625		WO2017/136085
7526	[redacted]								
7527	RESOURCE ALLOCATIONS FOR BEAMFORMING REFERENCE SIGNALS			PCT	APP-Closed	WO	PCT/US2016/044879		WO2017/135395
7528	[redacted]								
7529	SYSTEMS AND METHODS FOR REDUCING INTERRUPTIONS IN DATA TRANSMISSIONS DUE TO HANDOVER OPERATIONS			PCT	APP-Closed	WO	PCT/US2016/038746		WO2017/138977
7530	[redacted]								
7531	TIMER CONFIGURATION TECHNIQUES FOR COVERAGE ENHANCEMENT			PCT	APP-Closed	WO	PCT/US2017/016739		WO2017/136843
7532	[redacted]								
7533	SYSTEMS AND METHODS FOR REDUCING INTERRUPTIONS IN DATA TRANSMISSIONS DUE TO HANDOVER OPERATIONS			PCT	APP-Closed	WO	PCT/US2016/039379		WO2017/138978
7534	[redacted]								
7535	SYSTEMS METHODS AND DEVICES FOR REDUCED HANDOVER DATA INTERRUPTION			PCT	APP-Closed	WO	PCT/US2016/055036		WO2017/138988
7536	[redacted]								
7537	RX-TX TIME DIFFERENCE REPORT FOR TDD SYSTEMS AND ASSOCIATED DEVICES			PCT	APP-Closed	WO	PCT/US2016/065807		WO2017/139018
7538	[redacted]								
7539	DEVICE AND METHOD FOR CQI FEEDBACK TO ENABLE JOINT DL-UL SCHEDULING IN FULL DUPLEX SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/029120		WO2017/188918
7540	USER EQUIPMENT (UE) AND METHODS FOR RECEPTION OF PACKETS ON A SPLIT RADIO BEARER			PCT	APP-Closed	WO	PCT/US2016/030802		WO2017/192138
7541	SYSTEMS AND METHODS FOR UPLINK DMRS ENHANCEMENT IN FD-MIMO			PCT	APP-Closed	WO	PCT/US2016/024876		WO2017/171742
7542	IN-BAND FULL DUPLEX RELAY TO ENHANCE UPLINK PERFORMANCE IN HETEROGENEOUS NETWORK			PCT	APP-Closed	WO	PCT/US2016/033359		WO2017/200545
7543	HYBRID SECTOR-SWEEP-BASED INITIAL ACQUISITION PROCEDURES FOR MMWAVE CELLULAR RADIO ACCESS NETWORKS			PCT	APP-Closed	WO	PCT/US2016/039062		WO2017/180173
7544	[redacted]								
7545	PACKET DATA CONVERGENCE PROTOCOL (PDCP) OPERATION IN A TRANSPARENT MODE			PCT	APP-Closed	WO	PCT/US2016/068588		WO2017/136071
7546	[redacted]								
7547	DEVICES AND METHODS FOR RRC CONNECTION RE-ESTABLISHMENT			PCT	APP-Closed	WO	PCT/US2016/068867		WO2017/139639
7548	[redacted]								
7549	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS			PCT	APP-Closed	WO	PCT/US2016/039244		WO2017/052708
7550	[redacted]								
7551	SCHEDULING REQUEST FOR STANDALONE DEPLOYMENT OF A SYSTEM USING BEAMFORMING			PCT	APP-Closed	WO	PCT/US2016/045372		WO2017/138980
7552	[redacted]								
7553	SIGNALING FOR ENHANCED MEASUREMENT GAP FOR SYNCHRONOUS NETWORK			PCT	APP-Closed	WO	PCT/US2016/068742		WO2017/138985
7554	[redacted]								
7555	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION			PCT	APP-Closed	WO	PCT/US2016/026729		WO2016/164782
7556	[redacted]								

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7557	PHYSICAL LAYER PROTOCOL AND SELF-CONTAINED SUBFRAME STRUCTURE FOR								
	5G/LTE COMPLIANT WEARABLE USER EQUIPMENT DEVICES			PCT	APP-Closed	WO	PCT/US2016/035521		WO2017/146757
7558									
7559	PHYSICAL LAYER PROTOCOL AND SELF-CONTAINED SUBFRAME STRUCTURE FOR								
	5G/LTE COMPLIANT WEARABLE USER EQUIPMENT DEVICES			PCT	APP-Closed	WO	PCT/US2016/040149		WO2017/146763
7560									
7561	MULTIPLEXING UPLINK CONTROL INFORMATION AND DATA ON PHYSICAL UPLINK								
	SHARED CHANNEL			PCT	APP-Closed	WO	PCT/US2016/039657		WO2017/142581
7562									
7563	INTERLACES ALLOCATION AND INDICATION			PCT	APP-Closed	WO	PCT/US2017/018148		WO2017/146987
7564									
7565	SELF-CONTAINED TDD FRAME STRUCTURE AND DL-UL CONFIGURATION IN 5G SYSTEM			PCT	APP-Closed	WO	PCT/US2016/035990		WO2017/151173
7566									
7567	FRAME STRUCTURE FOR UPLINK SCHEDULING			PCT	APP-Closed	WO	PCT/US2016/035073		WO2017/065838
7568	DEVICE AND METHOD FOR CANCELLING INTERFERENCE CAUSED BY NON-LINEAR DEVICE			EPA	MTR-Closed	EP	17168900.3		3252961
7569	COMMUNICATIN DEVICE AND A METHOD FOR LOCALIZATION			PCT	APP-Closed	WO	PCT/US2016/038593		WO2017/222510
7570	CONTROL SIGNALING FOR FIFTH GENERATION CHANNEL STATE INFORMATION								
	REFERENCE SIGNALS (XCSI-RS)			PCT	APP-Closed	WO	PCT/US2016/033616		WO2017/142573
7571									
7572	PBCH TRANSMISSION INSIDE AND OUTSIDE OF DISCOVERY REFERENCE SIGNAL								
	TRANSMISSION WINDOW TO UES OPERATING IN UNLICENSED FREQUENCY BANDS			PCT	APP-Closed	WO	PCT/US2016/047919		WO2017/142589
7573									
7574	FIFTH GENERATION (5G) UPLINK CONTROL INFORMATION (xUCI) REPORT			PCT	APP-Closed	WO	PCT/US2016/033868		WO2017/142574
7575									
7576	CHANNEL CODING AND INTERLEAVING FOR CONTROL AND USER DATA IN THE								
	PHYSICAL UPLINK SHARED CHANNEL			PCT	APP-Closed	WO	PCT/US2016/039086		WO2017/142582
7577									
7578	TURBO CODING WITH SUPPORT FOR LOW CODING RATES			PCT	APP-Closed	WO	PCT/US2016/038077		WO2017/151175
7579									
7580	ENABLING A SECONDARY CELL IN A MASSIVE MIMO SYSTEM			PCT	APP-Closed	WO	PCT/US2016/049427		WO2017/151185
7581									
7582	DOWNLINK CONTROL INFORMATION FOR NON-SCHEDULED UPLINK TRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2017/019490		WO2017/147515
7583									
7584	TRANSMISSION DETECTION OF NON-SCHEDULED UPLINK TRANSMISSIONS			PCT	APP-Closed	WO	PCT/US2017/019487		WO2017/147513
7585									
7586	UCI CHANNEL CODING ON XPUCCH			PCT	APP-Closed	WO	PCT/US2016/035753		WO2017/146756
7587									
7588	PHYSICAL UPLINK CONTROL CHANNEL FORMATS FOR 5G			PCT	APP-Closed	WO	PCT/US2016/030726		WO2017/146751
7589									
7590	DELTA SIGMA ANALOG-DIGITAL CONVERTER RADIO FRONT-END RADIO RECEIVER								
	MOBILE TERMINAL AND BASE STATION			PCT	APP-Closed	WO	PCT/US2017/047500		WO2018/063568
7591	TRANSMITTING AND RECEIVING RADIO SIGNALS WITH TUNABLE ANTENNAS TUNED								
	BASED ON THROUGHPUT PERFORMANCE			PCT	APP-Closed	WO	PCT/US2017/034817		WO2018/004910
7592	DEVICE AND METHOD FOR SYNCHRONOUS BEAM SWITCHING			PCT	APP-Closed	WO	PCT/US2016/039570		WO2017/146759
7593									
7594	DEVICE AND METHOD OF USING BRRS CONFIGURATION			PCT	APP-Closed	WO	PCT/US2016/039553		WO2017/146758
7595									
7596	SYSTEM AND METHOD FOR BEAM INFORMATION AND CSI REPORT			PCT	APP-Closed	WO	PCT/US2016/040162		WO2017/146764
7597									
7598	SYSTEM AND METHOD FOR CHANNEL QUALITY REPORTING			PCT	APP-Closed	WO	PCT/US2016/040163		WO2017/146765
7599									
7600	PHYSICAL UPLINK CONTROL CHANNEL PROCEDURES			PCT	APP-Closed	WO	PCT/US2016/040111		WO2017/146762
7601									
7602	POWER CONTROL FOR LINKS IN BEAMFORMING SYSTEMS			PCT	APP-Closed	WO	PCT/US2016/051540		WO2017/146773
7603									
7604									
7605	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNEL			PCT	APP-Closed	WO	PCT/US2016/038954		WO2017/155584
7606									
7607	TRIGGER FOR ATTACH-TAU FOR PENDING IMS CALL REQUEST IN RADIO ACCESS								
	NETWORKS			PCT	APP-Closed	WO	PCT/US2016/052921		WO2017/171920
7608									
7609	TRANSMISSION CIRCUIT			NP	APP-Closed	CN	2.00518E+12	ZL200510000000	1648254
7610	TRANSMISSION CIRCUIT			NP	APP-Closed	JP	2004-017656		
7611	TRANSMISSION CIRCUIT			DIV	APP-Closed	JP	2005-014706	4518966	2005-244950
7612	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			NP	PAT-Closed	US	09/268731	6094101	
7613	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			PCT	MTR-Closed	CN	8063285	ZL008063285	1347588
7614	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			EPT	MTR-Closed	ES	9194093	1214790	1214790
7615	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			EPT	MTR-Closed	FI	9194093	1214790	1214790
7616	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			EPT	MTR-Closed	FR	9194093	1214790	1214790
7617	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION			ETD	APP-Closed	FR	51079614	1619790	1619790

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7618	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPT	MTR-Closed	GB	9194093	1214790	1214790
7619	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPD	MTR-Closed	GB	51079614	1619790	1619790
7620	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7621	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	PCT	MTR-Closed	JP	2000-605310	4452410	2002-539705
7622	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2001-7011763	10-0696756	10-2002-0010894
7623	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPT	MTR-Closed	NL	9194093	1214790	1214790
7624	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/006757		WO2000/055973
7625	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	EPT	MTR-Closed	SE	9194093	1214790	1214790
7626	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	PCT	MTR-Closed	SG	200105724-5	83587	
7627	DIRECT DIGITAL FREQUENCY SYNTHESIS ENABLING SPUR ELIMINATION	[redacted]	[redacted]	NP	MTR-Closed	TW	89104818	I155129	
7628	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7629	PULSE SHAPING FILTERS FOR SINGLE CARRIER WAVEFORMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/039585		WO2018/004515
7630	UPLINK POWER CONTROL FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/023845		WO2017/165668
7631	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7632	CNIP-ENHANCED BATTERY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/EP2016/070823		WO2018/041368
7633	RADIO LINK FAILURE HANDLING IN HIGH-FREQUENCY BAND NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/041610		WO2017/164908
7634	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7635	DISCONTINUOUS DOWNLINK TRANSMISSIONS FOR MACHINE TYPE COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/061401		WO2017/160335
7636	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7637	TRANSMISSION SCHEME AND INTER-CELL INTERFERENCE MITIGATION FOR FIFTH GENERATION (5G) SYSTEM INFORMATION BLOCK (xSIB)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038936		WO2017/155563
7638	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7639	DOWNLINK CONTROL INFORMATION (DCI) CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/088961		WO2018/006237
7640	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	EPT	MTR-Closed	FR	9523077	1201025	1201025
7641	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	EPT	MTR-Closed	GB	9523077	1201025	1201025
7642	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7643									
7644	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/020750		WO2001/010015
7645	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	PCT	APP-Closed	SG	200200385-3	86490	
7646	DRIVING CIRCUITS FOR SWITCH MODE RF POWER AMPLIFIERS	[redacted]	[redacted]	NP	MTR-Closed	TW	89123483	I167122	
7647	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	PCT	MTR-Closed	CN	18121772	ZL018121772	1440589
7648	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	DIV	MTR-Closed	CN	200510055750X	ZL200510055750X	1702959
7649	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	EPT	APP-Closed	EP	19329242		1282939
7650	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7651	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	PCT	APP-Closed	JP	2001-581410		2004-518311
7652	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	PCT	MTR-Closed	KR	10-2002-7014774	10-0831144	10-2003-0014213
7653	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2001/014258		WO2001/084704
7654	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	PCT	APP-Closed	SG	200206672-8		92899
7655	RF POWER AMPLIFIER HAVING HIGH POWER-ADDED EFFICIENCY	[redacted]	[redacted]	NP	MTR-Closed	TW	90110740	I166479	
7656	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	EPT	APP-Closed	EP	9537606		1201024
7657	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7658	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	APP-Closed	JP	2001-514531		2003-506941
7659	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2002-7001158		10-2002-0059343
7660	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/020841		WO2001/010013
7661	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	MTR-Closed	SG	200200573-4	86644	
7662	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	NP	PAT-Closed	US	09/247995	6377784	US-2001-0014593-A1
7663	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	CNT	PAT-Closed	US	11/317228	7395038	US-2006-0135096-A1
7664	High-efficiency modulating RF amplifier	[redacted]	[redacted]	CNT	APP-Closed	US	11/514138		US-2006-0293003-A1
7665	High-efficiency modulating RF amplifier	[redacted]	[redacted]	CNT	APP-Closed	US	11/514150		US-2006-0293002-A1
7666	High-efficiency modulating RF amplifier	[redacted]	[redacted]	CNT	APP-Closed	US	11/514152		US-2007-0060074-A1
7667	HIGH-EFFICIENCY MODULATING RF AMPLIFIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2000/033350		WO2000/048307
7668	METHOD AND SYSTEM OF AMPLITUDE MODULATION USING DUAL/SPLIT CHANNEL UNEQUAL AMPLIFICATION	[redacted]	[redacted]	NP	MTR-Closed	TW	90122742	I187838	
7669	MOBILE COMMUNICATION DEVICE AND METHOD FOR SELECTING A BEAM DIRECTION FOR AN ANTENNA	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/045662		WO2018/048543
7670	POWER ESTIMATION SYSTEM AND METHOD	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/047565		WO2018/057172
7671	COMMUNICATION DEVICE AND METHOD FOR SELECTING A BEAM DIRECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/088079		WO2018/000435
7672	METHODS AND DEVICES FOR USER DETECTION IN SPECTRUM SHARING	[redacted]	[redacted]	EPA	MTR-Closed	EP	171723642		3261307
7673	BIT-ERROR RATE FALSE POSITIVE DETECTION SYSTEM AND METHOD	[redacted]	[redacted]	NP	APP-Closed	US	15/201402		US-2018-0008662-A1
7674	APPARATUS SYSTEM AND METHOD OF INTERNET CONNECTIVITY VIA A RELAY STATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/040328		WO2018/004589
7675	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/034506		WO2018/004912
7676	CHANNEL ESTIMATION AND COMPENSATION IN HIGH SPEED SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/049260		WO2017/062113
7677	METHOD OF POSITIONING FOR 5G SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/050830		WO2017/164925
7678	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7679	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	CNT	MTR-Closed	US	11/442488	7675993	US-2006-0227895-A1
7680	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	EPT	MTR-Closed	DE	28021855	602386283	1438816
7681	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	EPT	MTR-Closed	EP	28021855	1438816	1438816
7682	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	EPT	MTR-Closed	GB	28021855	1438816	1438816
7683	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	JP	2003-539259		2005-512360

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7684	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	KR	10-2004-7005886		10-2004-0045851
7685	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2002/033779		WO2003/036894
7686	REDUCTION OF AVERAGE-TO-MINIMUM POWER RATIO IN COMMUNICATIONS SIGNALS	[redacted]	[redacted]	NP	MTR-Closed	TW	91124349	I200684	
7687	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	NP	MTR-Closed	US	11/280665	7636388	US-2007-0109066-A1
7688	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	EPT	MTR-Closed	GB	68831040	1949531	1949531
7689	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	PCT	MTR-Closed	JP	2007-532704	4866855	2009-516397
7690	METHOD OF CONTINUOUSLY CALIBRATING THE GAIN FOR A MULTI-PATH ANGLE MODULATOR	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IP2006/325263		WO2007/058371
7691	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7692	REAL TIME VCO GAIN NON LINEARITY CALIBRATION	[redacted]	[redacted]	EPT	APP-Closed	EP	87103313		2108933
7693	REAL TIME VCO GAIN NON LINEARITY CALIBRATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IP2008/000177		WO2008/099588
7694	FULL DUPLEX SUPPORT IN FIFTH GENERATION (5G) SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038952		WO2017/164900
7695	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7696	FRAME STRUCTURES FOR BEAM SWITCHING AND REFINEMENT IN CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/040886		WO2017/171901
7697	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7698	CO-EXISTENCE OF GRANTLESS UPLINK AND SCHEDULED TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/023394		WO2017/165405
7699	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7700	SYSTEMS AND METHODS FOR CENTRALIZED AND DECENTRALIZED COMMUNICATION MODES FOR V2X SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/044575		WO2017/171906
7701	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7702	Method and system to perform performance measurements job operations	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/052838		WO2017/164931
7703	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7704	SYSTEMS METHODS AND DEVICES FOR UPLINK BEARER SPLIT USING WIRELESS LOCAL AREA NETWORK AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/039548		WO2017/164901
7705	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7706	EXTENDED SYNCHRONIZATION SIGNAL FOR SYMBOL INDEX	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/036142		WO2017/164918
7707	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7708	CQI REPORTING FOR FLEXIBLE TRANSMISSION MODE SWITCHING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2016/084279		WO2017/206100
7709	DATA TRANSMISSION USING AN ADAPTIVE TRANSMISSION TIME INTERVAL STRUCTURE IN A WIRELESS COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/047998		WO2017/164920
7710	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7711	SIXTY GIGAHERTZ BAND SUPPORT IN CELLULAR AND WIRELESS LOCAL AREA NETWORK AGGREGATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038634		WO2017/171896
7712	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7713	QUALITY OF SERVICE HANDLING FOR UPLINK TRANSMISSIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/048269		WO2017/171912
7714	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7715	UPLINK MODULATION CODING SCHEME AND CONFIGURATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/039233		WO2017/171956
7716	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7717	SYSTEMS METHODS AND DEVICES FOR TRANSMISSION OF NETWORK INFORMATION IN THE PHYSICAL BROADCAST CHANNEL (PBCH)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055058		WO2017/171929
7718	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7719	AUTONOMOUS RESOURCE SELECTION FOR VEHICLE-TO-VEHICLE SIDELINK COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/045817		WO2017/171939
7720	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7721	BLIND DECODING REDUCTION FOR DEVICE-TO-DEVICE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/039652		WO2017/171897
7722	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7723	DUPLEXER STRUCTURE FOR COUPLING A TRANSMITTER AND A RECEIVER TO A COMMON ANTENNA	[redacted]	[redacted]	CNT	APP-Closed	US	10/819024		US-2004-0192230-A1
7724	RECEIVER SYSTEM WITH ELECTRICALLY TUNED INTEGRATED AMPLIFIER AND METHOD	[redacted]	[redacted]	DIV	MTR-Closed	US	10/696168	6838944	US-2004-0085138-A1
7725	USER-PLANE PATH SELECTION FOR THE EDGE SERVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/049418		WO2017/176397
7726	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7727	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7728	NETWORK ASSISTED MOBILITY STATUS INDICATION AND TRACKING OF HIGH-SPEED MOBILE SCENARIOS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054363		WO2017/171928
7729	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7730	CSI FEEDBACK FOR OPEN LOOP FD-MIMO TRANSMISSION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/018899		WO2017/172049
7731	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7732	STAGGERING UNATTENDED TRAFFIC IN LTE AFTER BARRING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/053820		WO2017/171921
7733	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7734	DEVICES AND METHODS FOR MEC V2X	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/066525		WO2017/176329
7735	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7736	USER EQUIPMENT (UE) SUPPORT MODE AND 3D SUPPORT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068991		WO2017/171953
7737	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7738	DUAL BEAM OPERATION FOR MOBILITY	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068990		WO2017/171952
7739	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7740	DEVICES AND METHODS FOR RESUME FAILURE FALLBACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054426		WO2017/171924
7741	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

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Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7742	PAGING DESIGN FOR STAND-ALONE BEAMFORMED SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/022914		WO2017/176438
7743	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7744	FLEXIBLE FRAME STRUCTURE SIGNALING FOR RADIO ACCESS NETWORKS OPERATING IN THE UNLICENSED SPECTRUM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068638		WO2017/135998
7745	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7746	METHODS AND TRANSCEIVERS FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/035334		WO2018/004968
7747	HARMONIC SUPPRESSING LOCAL OSCILLATOR SIGNAL GENERATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/033782		WO2017/222709
7748	FREQUENCY DIFFERENCE DETERMINATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/050427		WO2018/075155
7749	EVOLVED NODE-B (ENB) RADIO ACCESS NETWORK (RAN) CENTRAL UNIT (RCU) AND METHODS FOR RADIO RESOURCE CONTROL (RRC)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/014863		WO2017/180221
7750	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7751	VERY FAST JOINT BASE STATION (BS) AND USER EQUIPMENT (UE) BEAM ADAPTATION IN MILLIMETER WAVE (MMWAVE) CELLULAR SYSTEMS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038959		WO2017/222529
7752	MULTI-CONNECTIVITY SUPPORT AND FAST CELL SWITCHING FOR MMWAVE CELLULAR RADIO ACCESS TECHNOLOGIES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/042134		WO2018/013110
7753	DOWNLINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK FOR NARROWBAND INTERNET OF THINGS DEVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/064253		WO2017/119931
7754	MULTIPLEXING TRANSMISSION TIME INTERVALS (TTIS) WITH PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) PUNCTURING DETECTION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/038969		WO2017/074628
7755	LWIP ENHANCEMENTS FOR RELIABLE DRB SWITCHING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/049437		WO2017/189032
7756	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7757	LOW LATENCY PHYSICAL RANDOM ACCESS CHANNEL DESIGN	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/027783		WO2017/181124
7758	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7759	A RECEIVER A METHOD FOR CONTROLLING A RECEIVER AND A MOBILE COMMUNICATIONS DEVICE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/047258		WO2018/063557
7760	COMMUNICATION NETWORK COMPONENT AND METHOD FOR REQUESTING CHANNEL INFORMATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046191		WO2018/063519
7761	COMMUNICATION DEVICE AND A METHOD FOR HYBRID BEAMFORMING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/CN2018/105222		WO2018/058262
7762	COMMUNICATION DEVICE AND METHOD FOR WIRELESS COMMUNICATIONS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/042301		WO2018/044402
7763	SYSTEMS METHODS AND DEVICES FOR OPTIMIZED UPLINK GRANT TRANSMISSION TO ENABLE MULTI-SUBFRAME SCHEDULING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/060655		WO2017/180179
7764	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7765	BEAM MANAGEMENT FOR DUAL TRANSMISSION POINT HYBRID BEAMFORMING SYSTEMS IN 5G	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054068		WO2017/164933
7766	INCREASE OF SPECTRAL CAPACITY OF EMBMS-CELL WHEN DEPLOYED AS A SUPPLEMENTARY DOWNLINK CARRIER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/032290		WO2017/197200
7767	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7768	SUBFRAME STRUCTURE FOR COMMUNICATION IN UNDERLAY INFRASTRUCTURE-LESS NETWORKS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/058945		WO2017/189041
7769	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7770	CELLULAR IOT CONTROL AND USER PLANE SWITCHING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/055040		WO2017/189038
7771	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7772	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7773	CSI (CHANNEL STATE INFORMATION)-RS (REFERENCE SIGNAL) TRANSMISSION WITH CSI-RS IC (INTERFERENCE CANCELLATION) RECEIVER	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/030010		WO2017/192371
7774	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7775	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7776	APPARATUSES FOR EVOLVED NODE BS CONFIGURED TO COMMUNICATE USING ROBUST PUNCTURING-BASED MULTIPLEXING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/047192		WO2017/074537
7777	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7778	SYSTEMS METHODS AND DEVICES FOR UPLINK CONTROL INFORMATION ENHANCEMENT	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/052653		WO2017/189034
7779	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7780	METHODS FOR MULTI-CARRIER OPERATION WITH MULTIPLE ANCHOR CARRIERS IN NARROW-BAND INTERNET-OF-THINGS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/030692		WO2017/192624
7781	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7782	RACH-LESS HANDOVER TO SMALL CELL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/025617		WO2017/196459
7783	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7784	ANTENNA PANEL SWITCHING AND BEAM INDICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/031119		WO2017/192888
7785	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7786	DETERMINATION CIRCUIT AND APPARATUS MOBILE TRANSCEIVER COMMUNICATION DEVICE METHOD FOR DETERMINING COMPUTER PROGRAM AND STORAGE TO DETERMINE A SPATIAL TRANSMISSION MODE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/034928		WO2018/004918
7787	TRANSMITTER PERFORMANCE CALIBRATION SYSTEMS AND METHODS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046887		WO2018/057150
7788	PRE-DISTORTION CIRCUIT APPARATUS METHOD AND COMPUTER PROGRAM FOR PRE-DISTORTING TRANSMITTER RADIO TRANSCEIVER MOBILE TRANSCEIVER BASE STATION TRANSCEIVER COMMUNICATION DEVICE STORAGE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/IB2016/053984		WO2018/002694
7789	HIGHER LAYER DESIGN FOR CONTROL PLANE PACKET PROCESSING IN FIFTH GENERATION (5G)-WEARABLE COMMUNICATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/053024		WO2017/200562
7790	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		

	A	B	C	D	E	F	G	H	I
Z	TITLE	FAMILY	FAMILY-MEMBER	TYPE	STATUS	COUNTRY	Filing Number	Grant Number	Publication Number
7791	DUAL BEAM TRANSMISSION AND ACK (ACKNOWLEDGEMENT)/NACK (NEGATIVE ACKNOWLEDGEMENT) FEEDBACK MECHANISM FOR PUCCH (PHYSICAL UPLINK CONTROL CHANNEL)	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/030952		WO2017/192793
7792	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7793	EXTENDED PHYSICAL BROADCAST CHANNEL DESIGN FOR 5G STANDALONE SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/069146		WO2017/196406
7794	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7795	AVOIDING DISCARD OF CRITICAL VIDEO DATA IN MODEM LONG TERM EVOLUTION STACK	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/065972		WO2017/196385
7796	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7797	APPARATUS OF A USER EQUIPMENT (UE) TO SELECT RESOURCES IN A VEHICLE TO VEHICLE (V2V) COMMUNICATION SYSTEM	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/032679		WO2017/197393
7798	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7799	PRIORITIZED COMMUNICATIONS FOR VEHICULAR PROXIMITY SERVICES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/067610		WO2017/196397
7800	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7801	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7802	COMMUNICATION DEVICE AND METHOD FRO PERFORMING POSITIONING	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/046192		WO2018/063520
7803	CELLULAR TELEPHONE NETWORK TO NARROW BAND INTERNET OF THINGS NETWORK SWITCHING METHOD AND APPARATUS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/050415		WO2018/063763
7804	MAMP AND LWIP ENHANCEMENTS FOR CONCATENATION AND SEGMENTATION	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/054243		WO2017/196388
7805	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7806	SYSTEMS METHODS AND DEVICES FOR NON-ADAPTIVE RETRANSMISSION USING SEMI-PERSISTENT SCHEDULING RESOURCES	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/068232		WO2017/196400
7807	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7808	TRACKING USER EQUIPMENT AT RADIO ACCESS NETWORK LEVEL	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/032548		WO2017/197359
7809	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7810	TRANSPORT CHANNEL TO PHYSICAL CHANNEL MAPPING WITH SCALABLE TRANSMISSION TIME INTERVALS	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2017/032380		WO2017/197248
7811	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		
7812	MECHANISMS FOR AVOIDANCE OF EXPLICIT QUALITY OF SERVICE SIGNALING OVER THE RADIO INTERFACE	[redacted]	[redacted]	PCT	APP-Closed	WO	PCT/US2016/064151		WO2017/196388
7813	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		