

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6172533

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CONFIRMATORY ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INTEL IP CORPORATION	05/29/2020
RECEIVING PARTY DATA	
Name:	INTEL CORPORATION
Street Address:	2200 MISSION COLLEGE BOULEVARD
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 9	
Property Type	Number
Application Number:	13419150
Application Number:	14128614
Application Number:	14129952
Application Number:	14227937
Application Number:	14577766
Application Number:	14671470
Application Number:	14951295
Application Number:	15389426
Application Number:	15589912
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	BRAQ-J8613
NAME OF SUBMITTER:	JOHN P. MURTAUGH

SIGNATURE:	/johnpmurtaugh/
DATE SIGNED:	06/25/2020
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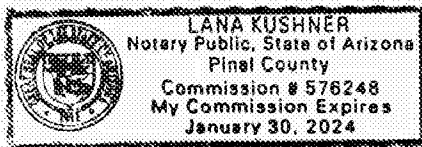
Certificate of Acknowledgement

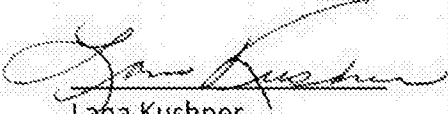
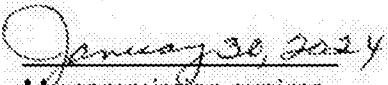
State of **Arizona**)

County of **Maricopa**)

On this 29 day of May, 2020, before me personally

appeared **Kenneth Nelson**, whose identity was proven to me on the basis of satisfactory evidence to be the person who he or she claims to be, and acknowledged that he or she signed the attached document titled, **Confirmatory Assignment Between Intel IP Corporation and Intel Corporation** on behalf of Intel IP Corporation as Assignor and Intel Corporation as Assignee.




Lana Kushner
Notary Public

My commission expires

**Confirmatory Assignment
Between
Intel IP Corporation and Intel Corporation**

THIS CONFIRMATORY ASSIGNMENT is made between:

Intel IP Corporation, a company duly organized and existing under the laws of the State of Delaware, with its principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, United States of America

(the "Assignor").

and

Intel Corporation, a company duly organized and existing under the laws of the State of Delaware, with a principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, United States of America and a previous place of business at 2200 Mission College Boulevard, Santa Clara, CA 95052, United States of America

(the "Assignee").

WHEREAS:

- (a) Assignor was previously the owner of the patents and patent applications in the countries as set forth in the attached "Schedule A" (the "**Transferred Patents Assets**"); and
- (b) Pursuant to a Patent Assignment, dated November 27, 2019 (the "**Patent Assignment**"), Assignor has previously assigned Assignor's entire right, title and interest in and to the Transferred Patent Assets to Assignee; and
- (c) The Patent Assignment included incorrect addresses for Assignee and Assignor (incorrect zip code).

IT IS AGREED THAT:

For good and valuable consideration, the receipt of which is hereby acknowledged by Assignor, Assignor hereby confirms that it has assigned, transferred and conveyed to Assignee, all of its right, title and interests (whether past, present or future) in the Transferred Patent Assets. Assignor and Assignee also agree that Schedule A, which is attached to this Confirmatory Assignment, is a re-organized version of Schedule 1, which was attached to the Patent Assignment.

Assignor and Assignee desire to correct their addresses and agree that the correct addresses for each are as stated above.

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IN WITNESS WHEREOF, the Assignor and Assignee have caused this Confirmatory Assignment to be executed by their authorized representatives.

Signed on behalf of Assignor this 27th day of
May 2020 by:



Kenneth Nelson
Assistant Director, Intel Patent Group
Intel IP Corporation

Signed on behalf of Assignee this 27th day of
May 2020 by:



Kenneth Nelson
Assistant Director, Intel Patent Group
Intel Corporation

SCHEDULE A

No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
4634	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION			TW		
4635	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	12/719692	US-2011-0217940-A1	US		9/8/2011
4636	RECONFIGURABLE DIVERSITY RECEIVER	12/748915	US-2011-0237211-A1	US		9/29/2011
4637	EMISSION SUPPRESSION FOR WIRELESS COMMUNICATION DEVICES	12/796229	US-2011-0299644-A1	US		12/8/2011
4638	RECEIVER WITH FEEDBACK CONTINUOUS-TIME DELTA-SIGMA MODULATOR WITH CURRENT-MODE INPUT	12/879477	US-2012-0063519-A1	US		3/15/2012
4639	SYSTEM AND METHOD FOR CRYSTAL OSCILLATOR FREQUENCY TUNING	12/879525	US-2012-0063504-A1	US		3/15/2012
4640	SYSTEM AND METHOD FOR SWITCH LEAKAGE CANCELLATION	12/882306	US-2012-0062307-A1	US		3/15/2012
4641	SYSTEMS AND METHODS FOR SPURIOUS EMISSION CANCELLATION	12/882498	US-2012-0064847-A1	US		3/15/2012
4642	SYSTEM AND METHOD FOR MULTIPLE BAND TRANSMISSION	12/895086	US-2012-0081203-A1	US		4/5/2012
4643	TEMPERATURE DEPENDENT VOLTAGE REGULATOR	12/905241	US-2012-0094613-A1	US		4/19/2012
4644	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	13/053966	US-2012-0243579-A1	US		9/27/2012
4645	COMMON-MODE FEEDBACK CIRCUIT	13/078430	US-2012-0154049-A1	US		6/21/2012
4646	METHOD AND SYSTEM FOR CONTROLLING SIGNAL TRANSMISSION OF A WIRELESS COMMUNICATION DEVICE	13/079473	US-2012-0252520-A1	US		10/4/2012
4647	TECHNIQUE TO GENERATE DIVIDE BY TWO AND 25 DUTY CYCLE	13/079516	US-2012-0252393-A1	US		10/4/2012
4648	SYSTEM AND METHOD FOR REDUCING LOCK ACQUISITION TIME OF A PHASE-LOCKED LOOP	13/080196	US-2012-0257701-A1	US		10/11/2012
4649	SYSTEM AND METHOD FOR SUPPORTING DIFFERENT TYPES OF OSCILLATOR CIRCUITS	13/100656	US-2012-0280842-A1	US		11/8/2012
4650	SYSTEM AND METHOD FOR ESTIMATING AND CORRECTING PHASE SHIFT IN A WIRELESS COMMUNICATION DEVICE	13/173972	US-2013-0003891-A1	US		1/3/2013
4651	TEMPERATURE COMPENSATION CIRCUIT	13/181287	US-2013-0015895-A1	US		1/17/2013
4652	SYSTEM AND METHOD FOR CONTROLLING CURRENT TO CERTAIN COMPONENTS OF A WIRELESS COMMUNICATION DEVICE	13/184180	US-2013-0016619-A1	US		1/17/2013
4653	SELF-CALIBRATED DAC WITH REDUCED GLITCH MAPPING	13/192950	US-2013-0027235-A1	US		1/31/2013
4654	DIGITAL VOLTAGE-CONTROLLED ATTENUATOR	13/207649	US-2013-0040591-A1	US		2/14/2013
4655	SYSTEM AND METHOD FOR PRESERVING INPUT IMPEDANCE OF A CURRENT-MODE CIRCUIT	13/207672	US-2013-0040695-A1	US		2/14/2013

SCHEDULE A

No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
4656	SYSTEM AND METHOD FOR IMPROVING POWER EFFICIENCY OF A TRANSMITTER	13/207712	US-2013-0040586-A1	US		2/14/2013
4657	SYSTEM AND METHOD FOR A DUAL-PATH TRANSMITTER	13/207746	US-2013-0039434-A1	US		2/14/2013
4658	SYSTEM AND METHOD FOR A MULTI-BAND TRANSMITTER	13/207786	US-2013-0039438-A1	US		2/14/2013
4659	SYSTEM AND METHOD FOR REDUCING OR ELIMINATING TEMPERATURE DEPENDENCE OF A COHERENT RECEIVER IN A WIRELESS COMMUNICATION DEVICE	13/208190	US-2013-0039394-A1	US		2/14/2013
4660	SYSTEM AND METHOD FOR FREQUENCY-AGILE TRANSMISSION IN A WIRELESS COMMUNICATION DEVICE	13/208698	US-2013-0039368-A1	US		2/14/2013
4661	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	13/352083	US-2013-0183910-A1	US		7/18/2013
4662	CONTINUOUS-TIME INCREMENTAL ANALOG-TO-DIGITAL CONVERTER	13/363884	US-2013-0194116-A1	US		8/1/2013
4663	SYSTEM AND METHOD FOR LINEARIZATION OF A MIXER	13/419150		US		
4664	DIFFERENTIAL TRANSMISSION LINE SHIELDED BY TWO OR MORE SPACED GROUPS OF SHIELDS	13/467447	US-2013-0300514-A1	US		11/14/2013
4665	CONTEXT-RETENTION CONTROLLER AND METHOD FOR CONTEXT RETENTION IN WIRELESS ACCESS NETWORKS	13/531111	US-2013-0165118-A1	US		6/27/2013
4666	SYSTEM AND METHOD FOR HIGH PERFORMANCE COHERENT PEAK COMPRESSION ESTIMATION	13/594616		US		
4667	TUNABLE WIDEBAND DISTRIBUTION CIRCUIT	13/594640	US-2014-0055218-A1	US		2/27/2014
4668	VARIABLE INDUCTOR FOR LC OSCILLATOR	13/720705	US-2014-0167867-A1	US		6/19/2014
4669	ADJUSTING TUNING SEGMENTS IN A DIGITALLY-CONTROLLED OSCILLATOR	13/901481	US-2014-0347137-A1	US		11/27/2014
4670	TEMPERATURE MEASUREMENT SYSTEM	13/904649	US-2014-0355650-A1	US		12/4/2014
4671	CALIBRATED TEMPERATURE MEASUREMENT SYSTEM	13/904743	US-2014-0355651-A1	US		12/4/2014
4672	SIGNAL DUTY CYCLE REDUCTION	13/907796	US-2014-0355701-A1	US		12/4/2014
4673	SYSTEM AND METHOD FOR SUPPORTING DIFFERENT TYPES OF OSCILLATOR CIRCUITS	13/911876	US-2013-0285755-A1	US		10/31/2013
4674	REDUCING TRANSMISSION SIGNAL ARTIFACT SPACING	13/912623	US-2014-0364132-A1	US		12/11/2014
4675	METHOD AND DEVICE FOR PROCESSING A SIGNAL BASED ON A FIRST AND A SECOND COVARIANCE MEASURE	13/927715	US-2015-0003260-A1	US		1/1/2015
4676	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	13/968995	US-2014-0051374-A1	US		2/20/2014
4677	TEMPERATURE COMPENSATION CIRCUIT	13/971025	US-2013-0335136-A1	US		12/19/2013

SCHEDULE A

No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
4678	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	14/022339	US-2015-0071367-A1	US		3/12/2015
4679	MOBILE RADIO COMMUNICATION DEVICES MOBILE RADIO COMMUNICATION NETWORKS AND METHODS FOR CONTROLLING THE SAME	14/025901	US-2015-0079971-A1	US		3/19/2015
4680	TECHNIQUES FOR DETERMINING COVARIANCE MEASURES BASED ON CORRELATION CRITERIA	14/026379	US-2015-0078428-A1	US		3/19/2015
4681	COMMUNICATION TERMINAL DEVICE AND METHOD FOR OPERATING A COMMUNICATION TERMINAL DEVICE	14/028583	US-2015-0078251-A1	US		3/19/2015
4682	POWER SAVING TECHNIQUE FOR DIGITAL TO TIME CONVERTERS	14/039996	US-2015-0091384-A1	US		4/2/2015
4683	TRANSMISSION CONTROL PROTOCOL (TCP) BASED VIDEO STREAMING	14/041446	US-2015-0095508-A1	US		4/2/2015
4684	SUBSCRIBER IDENTITY MODULE DATA ROUTING DEVICES METHODS FOR ROUTING SUBSCRIBER IDENTITY MODULE DATA CONTROL CIRCUITS AND METHODS FOR CONTROLLING A CHANGE OF A ROUTING	14/045955	US-2015-0099559-A1	US		4/9/2015
4685	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	14/062982	US-2014-0349584-A1	US		11/27/2014
4686	SYSTEMS AND METHODS FOR TRACKING ELAPSED TIME	14/084946	US-2015-0143156-A1	US		5/21/2015
4687	DEVICE AND METHOD FOR CHANNEL ESTIMATION AND SIGNAL DEMODULATION	14/093769	US-2015-0156036-A1	US		6/4/2015
4688	USER EQUIPMENT AND METHOD FOR FEEDBACK OF USER EQUIPMENT PERFORMANCE METRICS DURING DYNAMIC RADIO SWITCHING	14/107400	US-2014-0323133-A1	US		10/30/2014
4689	USER EQUIPMENT AND METHODS FOR HANDOVER ENHANCEMENT USING SCALED TIME-TO-TRIGGER AND TIME-OF-STAY	14/107947	US-2014-0302851-A1	US		10/9/2014
4690	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	14/108648	US-2014-0355705-A1	US		12/4/2014
4691	INTERACTIVE ZOOMING IN VIDEO CONFERENCING	14/109121	US-2014-0320587-A1	US		10/30/2014
4692	SEQUENCE GENERATION FOR CELL SPECIFIC REFERENCE SIGNAL (CRS)	14/122642	US-2015-0189677-A1	US	11/26/2013	7/2/2015
4693	DEVICE-TO-DEVICE DISCOVERY WITH DIRECT RADIO SIGNALS	14/122646	US-2014-0378123-A1	US	11/26/2013	12/25/2014
4694	USER EQUIPMENT AND METHOD FOR DISTRIBUTED CHANNEL ACCESS FOR D2D COMMUNICATIONS	14/124217	US-2014-0295858-A1	US	12/5/2013	10/2/2014

SCHEDULE A

No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
4695	HYBRID BEAMFORMING FOR DATA TRANSMISSION	14/125258	US-2015-0139292-A1	US	12/10/2013	5/21/2015
4696	ORTHOGONAL BEAMFORMING FOR MULTIPLE USER MULTIPLE-INPUT AND MULTIPLE-OUTPUT (MU-MIMO)	14/125330	US-2014-0341048-A1	US	12/11/2013	11/20/2014
4697	REPORTING OF USER PLANE CONGESTION (UPCON) USING A UPCON CONTAINER	14/125600	US-2015-0036496-A1	US	12/12/2013	2/5/2015
4698	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	14/125605	US-2015-0188690-A1	US	12/12/2013	7/2/2015
4699	COMMUNICATION OF SECURITY KEY INFORMATION	14/125606	US-2014-0307872-A1	US	12/12/2013	10/16/2014
4700	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	14/125608	US-2015-0139087-A1	US	12/12/2013	5/21/2015
4701	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC OFFLOADING	14/125610	US-2014-0286159-A1	US	12/12/2013	9/25/2014
4702	METHOD AND SYSTEM FOR THE MANAGEMENT OF CELL INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	14/125726	US-2015-0036597-A1	US	12/12/2013	2/5/2015
4703	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	14/125871	US-2015-0215989-A1	US	12/12/2013	7/30/2015
4704	CHANNEL STATE INFORMATION-REFERENCE SIGNAL PATTERNS FOR TIME DIVISION DUPLEX SYSTEMS IN LONG TERM EVOLUTION WIRELESS NETWORKS	14/126599	US-2014-0198675-A1	US	12/16/2013	7/17/2014
4705	USER EQUIPMENT WITH REDUCED POWER CONSUMPTION OPERATIONAL MODES	14/126723	US-2014-0269459-A1	US	12/16/2013	9/18/2014
4706	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	14/126900	US-2014-0295913-A1	US	12/17/2013	10/2/2014
4707	FAST SMALL CELL DISCOVERY	14/127479	US-2014-0198676-A1	US	12/18/2013	7/17/2014
4708	DISCOVERY SIGNAL IN CLUSTER-BASED SMALL CELL	14/127482	US-2015-0004969-A1	US	12/18/2013	1/1/2015
4709	MAPPING SPECIAL SUBFRAMES IN A WIRELESS COMMUNICATION NETWORK	14/127891	US-2015-0009870-A1	US	12/19/2013	1/8/2015
4710	SYSTEMS AND METHODS FOR MOBILITY OPTIMIZATION IN A HETEROGENEOUS NETWORK	14/127923	US-2014-0198767-A1	US	12/19/2013	7/17/2014
4711	ENERGY-HARVESTING DEVICES IN WIRELESS NETWORKS	14/127928	US-2015-0201342-A1	US	12/19/2013	7/16/2015
4712	SYSTEMS AND METHODS FOR GENERATING A DISCOVERY SIGNAL IN A DEVICE-TO-DEVICE OR NETWORK COMMUNICATION	14/127929	US-2014-0198764-A1	US	12/19/2013	7/17/2014
4713	SHARED SPECTRUM REASSIGNMENT IN A SPECTRUM SHARING CONTEXT	14/128093	US-2014-0321425-A1	US	12/20/2013	10/30/2014
4714	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	14/128184	US-2015-0105076-A1	US	12/20/2013	4/16/2015

SCHEDULE A

No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
4715	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	14/128217	US-2015-0223133-A1	US	12/20/2013	8/6/2015
4716	NETWORK ASSISTED DEVICE-TO-DEVICE DISCOVERY FOR PEER-TO-PEER APPLICATIONS	14/128301	US-2014-0206348-A1	US	12/20/2013	7/24/2014
4717	TECHNIQUES FOR BEAMFORMING TO MITIGATE MULTI-USER LEAKAGE AND INTERFERENCE	14/128614	US-2015-0200718-A1	US	12/22/2013	7/16/2015
4718	METHOD APPARATUS AND SYSTEM FOR HANDLING IN-DEVICE COEXISTENCE INTERFERENCE IN A WIRELESS NETWORK	14/128809	US-2014-0247759-A1	US	12/23/2013	9/4/2014
4719	CENTRALIZED PARTITIONING OF USER DEVICES IN A HETEROGENEOUS WIRELESS NETWORK	14/129197	US-2015-0201374-A1	US	12/24/2013	7/16/2015
4720	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	14/129295	US-2015-0382281-A1	US	12/26/2013	12/31/2015
4721	TECHNIQUES FOR CONNECTIONLESS SMALL DATA TRANSMISSION	14/129951	US-2014-0334380-A1	US	12/28/2013	11/13/2014
4722	TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	14/129952	US-2015-0201352-A1	US	12/28/2013	7/16/2015
4723	RADIO ACCESS TECHNOLOGY INFORMATION STORAGE IN A MOBILE NETWORK	14/132525	US-2014-0323128-A1	US		10/30/2014
4724	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	14/132974	US-2014-0321343-A1	US		10/30/2014
4725	PLATFORM INDEPENDENT ANTENNA	14/134632	US-2015-0180123-A1	US		6/25/2015
4726	SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION AND/OR SUPPRESSION ON PHYSICAL DOWNLINK SHARED CHANNEL AT THE USER EQUIPMENT	14/135265	US-2014-0321369-A1	US		10/30/2014
4727	PATTERN INDICATOR SIGNAL FOR NEW DMRS PATTERN	14/137500	US-2014-0302887-A1	US		10/9/2014
4728	NETWORK-LEVEL DEVICE PROXIMITY DETECTION	14/138175	US-2014-0248901-A1	US		9/4/2014
4729	DEVICE-TO-DEVICE (D2D) PREAMBLE DESIGN	14/140823	US-2014-0321360-A1	US		10/30/2014
4730	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	14/140932	US-2014-0301288-A1	US		10/9/2014
4731	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	14/141034	US-2014-0325078-A1	US		10/30/2014
4732	VIRTUAL CARRIER SENSING MECHANISM FOR LONG TERM EVOLUTION (LTE)	14/141179	US-2014-0301354-A1	US		10/9/2014

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4733	NETWORK ASSISTED INTERFERENCE CANCELLATION AND SUPPRESSION WITH RESPECT TO INTERFERING CONTROL CHANNEL TRANSMISSIONS	14/141220	US-2014-0293890-A1	US		10/2/2014
4734	HANDOVER OF USER EQUIPMENT WITH NON-GBR BEARERS	14/141250	US-2014-0295849-A1	US		10/2/2014
4735	HARQ TIMING DESIGN FOR A TDD SYSTEM	14/141265	US-2014-0293842-A1	US		10/2/2014
4736	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	14/141843	US-2014-0357228-A1	US		12/4/2014
4737	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	14/141876	US-2014-0301290-A1	US		10/9/2014
4738	APPARATUS AND METHOD FOR CONGESTION CONTROL IN WIRELESS COMMUNICATION NETWORKS	14/141985	US-2014-0321272-A1	US		10/30/2014
4739	APPARATUS AND METHOD FOR SINGLE-TONE DEVICE DISCOVERY IN WIRELESS COMMUNICATION NETWORKS	14/142021	US-2014-0185550-A1	US		7/3/2014
4740	COOPERATIVE MULTIPLE BEAM TRANSMISSION	14/142293	US-2015-0043439-A1	US		2/12/2015
4741	TIMING SYNCHRONIZATION IN DISCOVERY SIGNALS	14/142572	US-2014-0293988-A1	US		10/2/2014
4742	POWER SENSING IN WIRELESS SYSTEM	14/155374	US-2015-0372725-A1	US		12/24/2015
4743	SYSTEMS AND METHODS TO COMPENSATE FOR MEMORY EFFECTS USING ENHANCED MEMORY POLYNOMIALS	14/178930	US-2015-0229498-A1	US		8/13/2015
4744	APPARATUS SYSTEM AND METHOD OF IDENTIFYING A WIRELESS DOCKING STATION	14/198865	US-2015-0257183-A1	US		9/10/2015
4745	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SETUP FOR A DEVICE-TO-DEVICE SESSION	14/226656	US-2015-0282228-A1	US		10/1/2015
4746	APPLICATION CONTEXT MIGRATION FRAMEWORK AND PROTOCOL	14/226684	US-2015-0089382-A1	US		3/26/2015
4747	APPARATUS SYSTEM AND METHOD OF CONTROLLING A WIRELESS DOCKING DEVICE	14/227395	US-2015-0282073-A1	US		10/1/2015
4748	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	14/227937	US-2014-0293982-A1	US		10/2/2014
4749	USER EQUIPMENT GENERATION AND SIGNALING OF FEEDBACK FOR SUPPORTING ADAPTIVE DEMODULATION REFERENCE SIGNAL TRANSMISSION	14/229529	US-2015-0282123-A1	US		10/1/2015
4750	MULTI-STANDARD SYSTEMS AND METHODS WITH INTERFERER MITIGATION	14/230275	US-2015-0282099-A1	US		10/1/2015
4751	DOWNTILT SELECTION IN A FULL DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT SYSTEM	14/231158	US-2015-0029875-A1	US		1/29/2015

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4752	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	14/247675	US-2015-0029910-A1	US		1/29/2015
4753	NETWORK COVERAGE HOLE DETECTION	14/255216	US-2015-0031308-A1	US		1/29/2015
4754	SYSTEMS AND METHODS FOR ENHANCING PROBABILITY OF INTERNAL MEASUREMENTS IN CROWDED ENVIRONMENTS	14/276555	US-2015-0333779-A1	US		11/19/2015
4755	USER EQUIPMENT AND METHODS FOR FAST HANDOVER FAILURE RECOVERY IN 3GPP LTE NETWORK	14/279562	US-2015-0078335-A1	US		3/19/2015
4756	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	14/280799	US-2015-0045016-A1	US		2/12/2015
4757	CELL SEARCH METHOD AND COMMUNICATION TERMINAL	14/287086	US-2015-0341813-A1	US		11/26/2015
4758	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	14/300937	US-2015-0043445-A1	US		2/12/2015
4759	SYSTEM AND METHOD FOR GENERATING A DATA DEPENDENT CLOCK FOR A DAC IN A MODULATOR	14/303945	US-2015-0365113-A1	US		12/17/2015
4760	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	14/311938	US-2015-0043420-A1	US		2/12/2015
4761	USER EQUIPMENT AND EVOLVED NODE-B SUPPORTING MACHINE TYPE COMMUNICATION AND SMALL DATA COMMUNICATION	14/313818	US-2015-0029918-A1	US		1/29/2015
4762	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	14/314256	US-2015-0043447-A1	US		2/12/2015
4763	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	14/314850	US-2015-0078171-A1	US		3/19/2015
4764	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	14/314957	US-2015-0043448-A1	US		2/12/2015
4765	APPARATUS SYSTEM AND METHOD OF INTERFACING BETWEEN A CELLULAR MANAGER AND A WLAN ACCESS DEVICE	14/315551	US-2015-0109997-A1	US		4/23/2015
4766	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY	14/316156	US-2015-0085764-A1	US		3/26/2015
4767	SYSTEMS METHODS AND DEVICES FOR EFFICIENT DEVICE-TO-DEVICE CHANNEL CONTENTION	14/316175	US-2015-0117332-A1	US		4/30/2015
4768	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	14/316180	US-2015-0078348-A1	US		3/19/2015
4769	DRX OPERATION FOR UL/DL RECONFIGURATION	14/316188	US-2015-0078349-A1	US		3/19/2015
4770	SIGNALING MESSAGE SYNCHRONIZATION	14/316412	US-2015-0029955-A1	US		1/29/2015

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4771	APPARATUS SYSTEM AND METHOD OF SELECTIVELY PROVIDING INTERNET PROTOCOL (IP) SESSION CONTINUITY	14/316825	US-2015-0029956-A1	US		1/29/2015
4772	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	14/317184	US-2015-0087317-A1	US		3/26/2015
4773	HIGH-ORDER SIGMA DELTA FOR A DIVIDER-LESS DIGITAL PHASE-LOCKED LOOP	14/317435	US-2015-0381188-A1	US		12/31/2015
4774	GENERATION OF RANDOM ACCESS PREAMBLES	14/317450	US-2015-0078264-A1	US		3/19/2015
4775	REDUCTION OF PACKET RETRANSMISSIONS IN DUAL CONNECTIVITY SYSTEMS	14/317837	US-2015-0085646-A1	US		3/26/2015
4776	MITIGATION OF TRAFFIC CONGESTION IN DUAL CONNECTIVITY SYSTEMS	14/317900	US-2015-0085667-A1	US		3/26/2015
4777	SIGNALING RADIO BEARER OPTIMIZATIONS AND OTHER TECHNIQUES FOR SUPPORTING SMALL DATA TRANSMISSIONS	14/318008	US-2015-0043449-A1	US		2/12/2015
4778	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	14/318076	US-2015-0195805-A1	US		7/9/2015
4779	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	14/318085	US-2015-0043403-A1	US		2/12/2015
4780	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING	14/318098	US-2015-0092553-A1	US		4/2/2015
4781	HARQ TIMELINES FOR TDD-FDD CARRIER AGGREGATION	14/318143	US-2015-0085713-A1	US		3/26/2015
4782	AUTONOMOUS ENHANCED NODE B	14/318351	US-2015-0195706-A1	US		7/9/2015
4783	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY	14/318452	US-2015-0029919-A1	US		1/29/2015
4784	DIGITAL-TO-TIME CONVERTER SPUR REDUCTION	14/318829	US-2015-0381214-A1	US		12/31/2015
4785	DISCONTINUOUS RECEPTION (DRX) CONTROLLER AND METHOD FOR DRX OPERATION	14/321015	US-2014-0362754-A1	US		12/11/2014
4786	ENABLING DIRECT TRANSPORT LAYER CONNECTIVITY	14/332533	US-2015-0029936-A1	US		1/29/2015
4787	USER EQUIPMENT REALLOCATION BETWEEN NODES	14/332661	US-2015-0043404-A1	US		2/12/2015
4788	SELECTING A RADIO NODE FOR DATA TRAFFIC OFFLOADING	14/338638	US-2015-0029879-A1	US		1/29/2015
4789	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	14/339710	US-2015-0111569-A1	US		4/23/2015
4790	COVERAGE ENHANCEMENT AND SEMI-PERSISTENT SCHEDULING SUPPORT IN LTE-TDD SYSTEMS	14/340639	US-2015-0109972-A1	US		4/23/2015
4791	USER EQUIPMENT (UE) SUPPORTING PACKET-SWITCHED EMERGENCY CALLS OVER IP MULTIMEDIA SUBSYSTEM (IMS)	14/340936	US-2015-0109965-A1	US		4/23/2015

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4792	APPARATUS AND METHOD FOR DETERMINING INFORMATION ON A POWER VARIATION OF A TRANSMIT SIGNAL	14/341115	US-2015-0035545-A1	US		2/5/2015
4793	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	14/411498	US-2015-0146532-A1	US	12/27/2014	5/28/2015
4794	DECODER AND METHOD FOR DECODING AN ENCODED SEQUENCE OF BITS	14/445146	US-2016-0036465-A1	US		2/4/2016
4795	FINE TIMING MEASUREMENT BURST MANAGEMENT	14/448805	US-2015-0271776-A1	US		9/24/2015
4796	METHOD AND DEVICE FOR ITERATIVE DECODING A DATA TRANSFER STRUCTURE	14/449554	US-2016-0036468-A1	US		2/4/2016
4797	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION	14/451694	US-2015-0045043-A1	US		2/12/2015
4798	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	14/454639	US-2015-0043398-A1	US		2/12/2015
4799	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A CELL RESELECTION	14/459379	US-2016-0050597-A1	US		2/18/2016
4800	COMMUNICATION TERMINAL AND METHOD FOR CONTROLLING A DATA TRANSMISSION	14/472396	US-2016-0066335-A1	US		3/3/2016
4801	DATA PROCESSING DEVICE AND METHOD FOR DETERMINING A CLOCK RELATIONSHIP	14/474332	US-2015-0074444-A1	US		3/12/2015
4802	MOBILE TERMINALS AND METHODS FOR PERFORMING A MEASUREMENT	14/474333	US-2015-0071101-A1	US		3/12/2015
4803	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH MACHINE TYPE COMMUNICATION IN ENHANCED COVERAGE MODE	14/479825	US-2015-0078224-A1	US		3/19/2015
4804	TECHNIQUES FOR FILTERING CANDIDATE CELLS	14/480807	US-2015-0071103-A1	US		3/12/2015
4805	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	14/481396	US-2015-0215910-A1	US		7/30/2015
4806	SYSTEMS DEVICES AND METHODS FOR ALIGNMENT PROCEDURES IN DUAL-CONNECTIVITY NETWORKS	14/481508	US-2015-0327322-A1	US		11/12/2015
4807	USER EQUIPMENT AND METHOD FOR TRANSMIT POWER CONTROL FOR D2D TRANSMISSIONS	14/482060	US-2015-0223141-A1	US		8/6/2015
4808	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	14/483620	US-2015-0195672-A1	US		7/9/2015
4809	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	14/485002	US-2015-0117425-A1	US		4/30/2015
4810	CONGESTION CONTROL FOR SHORT MESSAGE SERVICE IN 3RD GENERATION PARTNERSHIP PROJECT (3GPP) SYSTEMS	14/486651	US-2015-0078154-A1	US		3/19/2015

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4811	DELIVERY OF TARGETED MEDIA CONTENT	14/487349	US-2015-0081851-A1	US		3/19/2015
4812	CONTENT ACCESS AUTHENTICATION FOR DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	14/487714	US-2015-0113604-A1	US		4/23/2015
4813	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	14/488774	US-2015-0215837-A1	US		7/30/2015
4814	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	14/489874	US-2015-0215911-A1	US		7/30/2015
4815	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	14/491639	US-2015-0117183-A1	US		4/30/2015
4816	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	14/492035	US-2015-0195759-A1	US		7/9/2015
4817	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	14/492039	US-2015-0195743-A1	US		7/9/2015
4818	APPARATUS SYSTEM AND METHOD OF CONTROLLING RADIO ACCESS TECHNOLOGY (RAT) COMMUNICATION MANAGERS	14/492342	US-2015-0215835-A1	US		7/30/2015
4819	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	14/492356	US-2015-0215777-A1	US		7/30/2015
4820	MOBILITY INFORMATION REPORTING	14/494161	US-2015-0111581-A1	US		4/23/2015
4821	SYSTEMS METHODS AND DEVICES FOR APPLICATION AWARE ACCESS CONTROL FOR COMMUNICATION ON A MOBILE NETWORK	14/494169	US-2015-0195712-A1	US		7/9/2015
4822	PHASE TRACKER FOR A PHASE LOCKED LOOP	14/494718	US-2016-0087639-A1	US		3/24/2016
4823	RANDOM ACCESS PROCEDURE FOR DUAL CONNECTIVITY	14/495292	US-2015-0215967-A1	US		7/30/2015
4824	EMERGENCY CALL HANDLING	14/495469	US-2015-0111517-A1	US		4/23/2015
4825	TECHNIQUES AND CONFIGURATIONS ASSOCIATED WITH USER EQUIPMENT-INITIATED CONGESTION REPORTING	14/495704	US-2015-0117187-A1	US		4/30/2015
4826	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	14/495729	US-2015-0195796-A1	US		7/9/2015
4827	BEARER SPLIT RATIOS FOR DUAL CONNECTIVITY SYSTEMS	14/496152	US-2015-0085800-A1	US		3/26/2015
4828	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	14/496519	US-2016-0094251-A1	US		3/31/2016

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4829	SYSTEMS METHODS AND DEVICES FOR MULTIPLE SIGNAL CO-EXISTENCE IN MULTIPLE-USE FREQUENCY SPECTRUM	14/496694	US-2015-0195849-A1	US		7/9/2015
4830	SYSTEMS METHODS AND DEVICES FOR CHANNEL RESERVATION	14/496725	US-2015-0223075-A1	US		8/6/2015
4831	EFFICIENT RECEIVER YIELDING FOR DISTRIBUTED D2D COMMUNICATIONS	14/496842	US-2015-0215088-A1	US		7/30/2015
4832	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	14/496970	US-2015-0195818-A1	US		7/9/2015
4833	SYSTEMS METHODS AND DEVICES FOR IMPROVED INTER-FREQUENCY MEASUREMENT	14/497514	US-2015-0215803-A1	US		7/30/2015
4834	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	14/497913	US-2015-0215757-A1	US		7/30/2015
4835	METHODS DEVICES AND COMPUTER READABLE MEDIA FOR DYNAMIC SCHEDULING	14/497934	US-2016-0094322-A1	US		3/31/2016
4836	SYSTEMS METHODS AND DEVICES TO SUPPORT A FAST TDD CONFIGURATION INDICATION	14/498441	US-2015-0195056-A1	US		7/9/2015
4837	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	14/498502	US-2015-0195819-A1	US		7/9/2015
4838	SYSTEMS METHODS AND DEVICES FOR HYBRID FULL-DIMENSIONAL MULTIPLE-INPUT MULTIPLE-OUTPUT	14/498517	US-2015-0195020-A1	US		7/9/2015
4839	SYSTEMS METHODS AND DEVICES FOR SELECTIVE INTERFERENCE COORDINATION IN A CELLULAR PROTOCOL	14/498679	US-2015-0215100-A1	US		7/30/2015
4840	SYSTEMS METHODS AND DEVICES FOR ENHANCING SPECTRAL EFFICIENCY WITH NETWORK-ASSISTED ADVANCED RECEIVERS	14/499178	US-2015-0195820-A1	US		7/9/2015
4841	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	14/506194	US-2015-0244400-A1	US		8/27/2015
4842	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	14/513041	US-2015-0117408-A1	US		4/30/2015
4843	APPLICATION SPECIFIC CONGESTION CONTROL IN A WIRELESS NETWORK	14/517698	US-2015-0215845-A1	US		7/30/2015
4844	CONTROLLING SUBSCRIBER IDENTITY MODULE (SIM) ACTIVE STATE IN A MULTIPLE SIMs RADIO	14/517868	US-2016-0112084-A1	US		4/21/2016
4845	LOAD BALANCING IN A WIRELESS CELLULAR NETWORK BASED ON USER EQUIPMENT MOBILITY	14/535651	US-2015-0312826-A1	US		10/29/2015
4846	CHANNEL RESERVATION FOR OPERATION IN AN UNLICENSED SPECTRUM	14/543670	US-2015-0312793-A1	US		10/29/2015
4847	DYNAMIC DECLARATION OF CONFORMITY AND CERTIFICATION FOR RADIO APPLICATION DISTRIBUTION	14/543731	US-2015-0312697-A1	US		10/29/2015

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4848	METHOD AND DEVICE FOR DETECTING INTERFERENCE SCENARIO	14/546183	US-2015-0156724-A1	US		6/4/2015
4849	TRANSCIVER DEVICE AND A METHOD FOR GENERATING A COMPENSATION SIGNAL	14/550277	US-2015-0180685-A1	US		6/25/2015
4850	METHOD BASEBAND SIGNAL GENERATOR AND COMPUTER PROGRAM FOR PROVIDING A BASEBAND SIGNAL	14/550412	US-2015-0180690-A1	US		6/25/2015
4851	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	14/555259	US-2015-0270936-A1	US		9/24/2015
4852	COMMUNICATION TERMINAL AND METHOD FOR DETERMINING A POWER SCALING FACTOR	14/556863	US-2015-0208362-A1	US		7/23/2015
4853	APPARATUS SYSTEM AND METHOD OF COMMUNICATING WIRELESS LOCAL AREA NETWORK (WLAN) OFFLOADING INFORMATION BETWEEN CELLULAR MANAGERS	14/562730	US-2015-0327117-A1	US		11/12/2015
4854	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	14/565868	US-2015-0264514-A1	US		9/17/2015
4855	METHOD OF PROCESSING RECEIVED DIGITIZED SIGNALS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	14/566736	US-2016-0174138-A1	US		6/16/2016
4856	SYSTEMS APPARATUSES AND METHODS FOR MANAGING USER EQUIPMENT MOBILITY INFORMATION	14/569295	US-2016-0173358-A1	US		6/16/2016
4857	INJECTION LOCKED RING OSCILLATOR BASED DIGITAL-TO-TIME CONVERTER AND METHOD FOR PROVIDING A FILTERED INTERPOLATED PHASE SIGNAL	14/570299	US-2016-0173119-A1	US		6/16/2016
4858	APPARATUSES SYSTEMS AND METHODS FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	14/570457	US-2015-0271657-A1	US		9/24/2015
4859	APPARATUS AND METHODS FOR A CAPACITIVE DIGITAL-TO- ANALOG CONVERTER BASED POWER AMPLIFIER	14/570879	US-2016-0173032-A1	US		6/16/2016
4860	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	14/570882	US-2015-0171900-A1	US		6/18/2015
4861	MOBILITY MANAGEMENT ENTITY USER EQUIPMENT AND METHODS FOR MACHINE TYPE COMMUNICATION	14/571025	US-2015-0327327-A1	US		11/12/2015
4862	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	14/571053	US-2015-0312817-A1	US		10/29/2015
4863	RADIO COMMUNICATION DEVICE AND METHOD FOR OPERATION THEREOF	14/571414	US-2016-0174289-A1	US		6/16/2016
4864	CELLULAR UP-LINK HARMONIC SPURS MITIGATION IN WI-FI AND BLUETOOTH RECEIVERS	14/571827	US-2016-0173209-A1	US		6/16/2016

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4865	UE ENB AND METHOD FOR CHANNEL ACCESS PRIORITY FOR DISTRIBUTED D2D	14/572309	US-2015-0312915-A1	US		10/29/2015
4866	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	14/573132	US-2016-0183086-A1	US		6/23/2016
4867	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	14/575448	US-2016-0183218-A1	US		6/23/2016
4868	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	14/575733	US-2016-0182162-A1	US		6/23/2016
4869	STORING A VALUE OF A COUNTER FOR A WIRELESS LOCAL AREA NETWORK	14/575876	US-2015-0309853-A1	US		10/29/2015
4870	SYSTEM AND METHOD FOR TUNING AN ANTENNA IN A WIRELESS COMMUNICATION DEVICE	14/575921	US-2015-0171897-A1	US		6/18/2015
4871	HIGH-SPEED DIGITAL SIGNAL PROCESSING SYSTEMS	14/575939		US		
4872	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	14/577419	US-2015-0264636-A1	US		9/17/2015
4873	TRAFFIC ENGINEERING IN HETEROGENEOUS MILLIMETER-WAVE AND LTE SMALL CELL SYSTEMS	14/577766	US-2016-0183242-A1	US		6/23/2016
4874	COARSE TUNING SELECTION FOR PHASE LOCKED LOOPS	14/578773	US-2016-0182065-A1	US		6/23/2016
4875	USER EQUIPMENT AND METHODS FOR HANDOVER USING MEASUREMENT REPORTING BASED ON MULTIPLE EVENTS	14/578961	US-2015-0312818-A1	US		10/29/2015
4876	SYSTEMS METHODS AND DEVICES FOR LTE WI-FI AND BLUETOOTH COEXISTENCE	14/579402	US-2016-0183282-A1	US		6/23/2016
4877	SYSTEM AND METHOD FOR TDD COMMUNICATIONS	14/580024	US-2016-0020891-A1	US		1/21/2016
4878	METHOD AND RELATED MOBILE DEVICE FOR REFERENCE SIGNAL TIME DIFFERENCE BASED LOCALIZATION	14/580685	US-2015-0215884-A1	US		7/30/2015
4879	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	14/580735	US-2015-0264699-A1	US		9/17/2015
4880	SYSTEMS METHODS AND DEVICES FOR CELL SELECTION BASED ON PRIORITIZED NODES	14/580779	US-2015-0327133-A1	US		11/12/2015
4881	SYSTEMS METHODS AND DEVICES FOR APPLICATION SPECIFIC ROUTING IN DUAL CONNECTIVITY	14/580797	US-2015-0215840-A1	US		7/30/2015
4882	APPARATUS AND METHOD FOR PROVIDING OSCILLATOR SIGNALS	14/580952	US-2016-0156310-A1	US		6/2/2016
4883	METHOD AND APPARATUS TO ASSIST NETWORK TRAFFIC	14/581216	US-2015-0215220-A1	US		7/30/2015

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4884	METHODS SYSTEMS AND DEVICES FOR MODULATION AND CODING SCHEME SIGNALING FOR COMMON CONTROL CHANNEL	14/581619	US-2015-0271006-A1	US		9/24/2015
4885	TENTATIVE GRANT FOR EFFICIENT DEVICE-TO- DEVICE COMMUNICATIONS	14/581770	US-2015-0327296-A1	US		11/12/2015
4886	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	14/581889	US-2015-0327103-A1	US		11/12/2015
4887	COMMUNICATION SYSTEMS AND METHODS	14/581938	US-2015-0373682-A1	US		12/24/2015
4888	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	14/582035	US-2015-0264552-A1	US		9/17/2015
4889	INTERACTIVE VIDEO CONFERENCING	14/582376	US-2015-0195490-A1	US		7/9/2015
4890	SCHEDULING FOR AN UNLICENSED CARRIER TYPE	14/582379	US-2015-0245376-A1	US		8/27/2015
4891	SYSTEMS METHODS AND DEVICES FOR FLEXIBLE RETRANSMISSIONS	14/582492	US-2015-0327275-A1	US		11/12/2015
4892	SYSTEMS METHODS AND DEVICES FOR SYNCHRONIZATION SOURCE SELECTION FOR DEVICE-TO-DEVICE COMMUNICATION	14/582580	US-2015-0327201-A1	US		11/12/2015
4893	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	14/582611	US-2015-0264677-A1	US		9/17/2015
4894	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	14/582612	US-2015-0312371-A1	US		10/29/2015
4895	APPARATUS METHOD AND SYSTEM OF ESTABLISHING A CONNECTION BETWEEN A CELLULAR NODE AND A CORE NETWORK	14/582879	US-2015-0312841-A1	US		10/29/2015
4896	MEASUREMENT GAP PATTERNS	14/582998	US-2015-0245235-A1	US		8/27/2015
4897	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	14/583027	US-2015-0327139-A1	US		11/12/2015
4898	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	14/583036	US-2015-0195328-A1	US		7/9/2015
4899	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	14/583057	US-2015-0271729-A1	US		9/24/2015
4900	CONVEYANCE OF APPLICATION COMMUNICATION PATTERNS FROM AN EXTERNAL APPLICATION SERVER TO A 3RD GENERATION PARTNERSHIP PROJECT SYSTEM	14/583168	US-2015-0264512-A1	US		9/17/2015
4901	SYSTEMS METHODS AND DEVICES FOR PRIORITIZING INTER-FREQUENCY MEASUREMENTS	14/583263	US-2015-0327286-A1	US		11/12/2015

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4902	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	14/583281	US-2015-0264638-A1	US		9/17/2015
4903	SYSTEMS METHODS AND DEVICES FOR CONFIGURING MEASUREMENT GAPS FOR DUAL CONNECTIVITY	14/583283	US-2015-0327104-A1	US		11/12/2015
4904	METHODS FOR APERIODIC CSI REPORT TRIGGERING FOR FLEXIBLE SUBFRAMES IN LTE TDD EIMTA SYSTEMS WITH DYNAMIC UL-DL RECONFIGURATION	14/583595	US-2016-0381587-A1	US	12/27/2014	12/29/2016
4905	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	14/583653	US-2015-0195867-A1	US		7/9/2015
4906	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	14/590772	US-2015-0117213-A1	US		4/30/2015
4907	APPARATUS AND A METHOD FOR DETERMINING INFORMATION ON AN AMPLITUDE ERROR OF A TRANSMIT SIGNAL	14/591210	US-2015-0244504-A1	US		8/27/2015
4908	COMMUNICATION TERMINAL AND A METHOD FOR REPORTING A CHANNEL QUALITY	14/593024	US-2015-0230237-A1	US		8/13/2015
4909	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	14/620488	US-2015-0280842-A1	US		10/1/2015
4910	ELECTRONIC DEVICES AND METHOD OF CONTROLLING AN ELECTRONIC DEVICE	14/623574	US-2016-0239057-A1	US		8/18/2016
4911	HIGH LINEARITY PUSH-PULL COMMON-GATE AMPLIFIER	14/629793	US-2016-0248390-A1	US		8/25/2016
4912	QUANTIZATION CIRCUIT AND METHOD FOR QUANTIZING AN INPUT QUANTITY	14/630953	US-2015-0280724-A1	US		10/1/2015
4913	NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WIRELESS SYSTEMS AND METHODS	14/632291	US-2015-0312074-A1	US		10/29/2015
4914	HYSTERETIC CURRENT CONTROL WITH EVENT DITHERING	14/643239	US-2016-0268889-A1	US		9/15/2016
4915	TECHNIQUES FOR DEPLOYING SMALL CELLS AS SECONDARY CELLS FOR USER EQUIPMENT	14/652478	US-2015-0341838-A1	US	6/16/2015	11/26/2015
4916	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	14/652590	US-2015-0341922-A1	US	6/16/2015	11/26/2015
4917	CHANNEL QUALITY INDICATION FOR FALLBACK TRANSMISSION MODE OVER NEW CARRIER TYPE	14/652600	US-2015-0327247-A1	US	6/16/2015	11/12/2015
4918	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	14/653221	US-2015-0351139-A1	US	6/17/2015	12/3/2015
4919	CONTENT URL AUTHENTICATION FOR DASH	14/653451	US-2015-0350205-A1	US	6/18/2015	12/3/2015

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4920	PRESENCE SERVICE USING IMS BASED DASH SERVICE	14/653455	US-2015-0334152-A1	US	6/18/2015	11/19/2015
4921	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	14/653779	US-2015-0326572-A1	US	6/18/2015	11/12/2015
4922	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE TERMINAL DEVICE	14/656811		US		
4923	USER EQUIPMENT PORT CONTROL PROTOCOL SERVER AND METHODS FOR SIGNALING DEVICE AND APPLICATION FEEDBACK	14/659655	US-2015-0195750-A1	US		7/9/2015
4924	METHOD AND DEVICE FOR PROCESSING RESOURCE BLOCKS	14/660029	US-2015-0270934-A1	US		9/24/2015
4925	METHOD AND DEVICE FOR INTERFERER SCHEDULING DETECTION AND NOISE AND INTERFERER PARAMETER ESTIMATION	14/660094	US-2015-0271687-A1	US		9/24/2015
4926	TERMINAL DEVICE AND MOBILE RADIO COMMUNICATION BY TERMINAL DEVICE	14/661074	US-2016-0278072-A1	US		9/22/2016
4927	METHOD AND RELATED MOBILE DEVICE FOR CELL SEARCHING WITH LOW MEMORY REQUIREMENT	14/661439	US-2015-0282055-A1	US		10/1/2015
4928	METHOD AND RELATED MOBILE DEVICE FOR DETERMINING A REFERENCE SIGNAL RECEIVED POWER	14/661552	US-2015-0281988-A1	US		10/1/2015
4929	ADJUSTING POWER AMPLIFIER STIMULI BASED ON OUTPUT SIGNALS	14/663640	US-2016-0277045-A1	US		9/22/2016
4930	PHASED ARRAY WEIGHTING FOR POWER EFFICIENCY IMPROVEMENT WITH HIGH PEAK-TO-AVERAGE POWER RATIO SIGNALS	14/668274	US-2016-0285481-A1	US		9/29/2016
4931	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	14/668655	US-2016-0094280-A1	US		3/31/2016
4932	METHODS AND APPARATUSES OF WLAN ALARM NOTIFICATION IN CELLULAR NETWORKS	14/668663	US-2016-0105809-A1	US		4/14/2016
4933	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR HYBRID AUTOMATIC REPEAT REQUEST (HARQ) COMMUNICATION	14/669176	US-2015-0349929-A1	US		12/3/2015
4934	LTE-U COMMUNICATION DEVICES AND METHODS FOR APERIODIC BEACON AND REFERENCE SIGNAL TRANSMISSION	14/669366	US-2015-0373674-A1	US		12/24/2015
4935	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	14/669662	US-2016-0044539-A1	US		2/11/2016
4936	DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCE DESIGN FOR DEVICE-TO-DEVICE (D2D) DISCOVERY	14/669823	US-2015-0326362-A1	US		11/12/2015
4937	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	14/669908	US-2016-0029426-A1	US		1/28/2016

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4938	TECHNIQUES FOR SECURELY RECEIVING CRITICAL COMMUNICATION CONTENT ASSOCIATED WITH A CRITICAL COMMUNICATION SERVICE	14/670233	US-2016-0344726-A1	US		11/24/2016
4939	METHOD FOR PERFORMING MOBILE COMMUNICATIONS AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	14/670498	US-2016-0286454-A1	US		9/29/2016
4940	METHOD FOR TRANSMITTING A PLURALITY OF UPLINK MESSAGES AND MOBILE RADIO COMMUNICATION TERMINAL DEVICE	14/670519	US-2016-0285591-A1	US		9/29/2016
4941	EVOLVED NODE-B USER EQUIPMENT AND METHODS FOR CHANNEL QUALITY INDICATOR (CQI) FEEDBACK	14/670692	US-2016-0142123-A1	US		5/19/2016
4942	DEVICES AND METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	14/670769	US-2015-0351115-A1	US		12/3/2015
4943	METHODS AND DEVICES FOR MULTI-DEVICE LINK AGGREGATION	14/670967	US-2016-0285746-A1	US		9/29/2016
4944	ANTENNA SYSTEM	14/671470	US-2016-0285159-A1	US		9/29/2016
4945	LAWFUL INTERCEPT REPORTING IN WIRELESS NETWORKS USING PUBLIC SAFETY RELAYS	14/671728	US-2015-0326302-A1	US		11/12/2015
4946	SMOOTH UE TRANSFER WITHIN AN EVOLVED PACKET CORE	14/671829	US-2016-0095036-A1	US		3/31/2016
4947	OPTIMIZING APPLICATIONS BEHAVIOR IN A DEVICE FOR POWER AND PERFORMANCE	14/671994	US-2016-0286430-A1	US		9/29/2016
4948	SYSTEMS METHODS AND DEVICES FOR PROXIMITY SERVICES FOR MULTI-CARRIER CAPABLE MOBILE DEVICES	14/671998	US-2016-0044552-A1	US		2/11/2016
4949	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND A METHOD FOR AMPLIFYING AN INPUT SIGNAL	14/686135	US-2015-0381114-A1	US		12/31/2015
4950	SYSTEMS AND METHODS FOR MANAGING CIRCUIT SWITCHED FALLBACK CALLS	14/686506	US-2016-0100336-A1	US		4/7/2016
4951	METHODS AND DEVICES FOR CHANNEL ESTIMATION AND OFDM RECEIVER	14/692267	US-2016-0315791-A1	US		10/27/2016
4952	SYSTEM AND METHOD TO ADDRESS RESOURCE COLLISION FOR ASYMMETRIC REGION ALLOCATION	14/692510	US-2016-0128055-A1	US		5/5/2016
4953	SYSTEM AND METHOD FOR MEASUREMENT REPORTING IN AN UNLICENSED SPECTRUM	14/693653	US-2016-0007350-A1	US		1/7/2016
4954	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK	14/695800	US-2016-0149617-A1	US		5/26/2016
4955	SIMULTANEOUS SCHEDULING REQUEST TRANSMISSION IN DUAL CONNECTIVITY	14/696587	US-2015-0312930-A1	US		10/29/2015

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4956	COMMUNICATION SYSTEMS AND METHODS	14/697369	US-2015-0350992-A1	US		12/3/2015
4957	CARRIAGE OF MEDIA CONTENT QUALITY INFORMATION	14/701380	US-2016-0105478-A1	US		4/14/2016
4958	AT COMMAND FOR SECURE ESM INFORMATION	14/701520	US-2016-0323739-A1	US		11/3/2016
4959	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	14/704195	US-2016-0021584-A1	US		1/21/2016
4960	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	14/704848	US-2016-0142926-A1	US		5/19/2016
4961	SYSTEMS METHODS AND APPARTATUSES FOR BEARER SPLITTING IN MULTI-RADIO HETNET	14/705669	US-2016-0119939-A1	US		4/28/2016
4962	COMMUNICATION TERMINAL AND METHOD FOR ESTABLISHING A CSFB CALL	14/706020	US-2016-0330778-A1	US		11/10/2016
4963	COVERAGE CONSTRAINED DEVICES AND PAGING METHOD	14/706152	US-2016-0100380-A1	US		4/7/2016
4964	METHOD APPARATUS AND COMPUTER PROGRAM FOR DETERMINING AN INTERPOLATED COMPLEX VALUED SAMPLE	14/708431	US-2015-0363362-A1	US		12/17/2015
4965	COMPUTING APPARATUS WITH CROSS-SUBFRAME SCHEDULING	14/711701	US-2016-0134403-A1	US		5/12/2016
4966	SYSTEM AND METHOD OF MTC DEVICE OPERATIONS	14/711847	US-2016-0095076-A1	US		3/31/2016
4967	USER EQUIPMENT AND METHODS FOR CSI MEASUREMENTS WITH REDUCED BANDWIDTH SUPPORT	14/711866	US-2016-0127936-A1	US		5/5/2016
4968	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE	14/718042	US-2016-0100404-A1	US		4/7/2016
4969	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	14/718248	US-2015-0372644-A1	US		12/24/2015
4970	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	14/718975	US-2016-0094996-A1	US		3/31/2016
4971	POWER CONSERVATION VIA GNSS-WIRELESS ACTIVITY SYNCHRONIZATION	14/721938	US-2016-0349378-A1	US		12/1/2016
4972	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	14/723284	US-2016-0100382-A1	US		4/7/2016
4973	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP UNDERLAY NETWORKS	14/729511	US-2016-0192439-A1	US		6/30/2016
4974	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	14/736155	US-2016-0365867-A1	US		12/15/2016
4975	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	14/739815	US-2016-0006493-A1	US		1/7/2016

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4976	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN ACCESS DEVICE	14/747085	US-2016-0128110-A1	US		5/5/2016
4977	REFERENCE SIGNAL PRESENCE DETECTION BASED LICENSE ASSISTED ACCESS AND REFERENCE SIGNAL SEQUENCE DESIGN	14/747663	US-2016-0173249-A1	US		6/16/2016
4978	ENCODING CIRCUIT METHOD FOR TRANSMITTING DATA OVER A DATA BUS AND RADIO COMMUNICATION DEVICE	14/748293	US-2016-0380721-A1	US		12/29/2016
4979	DEVICES AND METHODS FOR EPDCCH MONITORING IN WIRELESS COMMUNICATION SYSTEMS	14/748802	US-2016-0219557-A1	US		7/28/2016
4980	SYSTEM AND METHODS FOR SUPPORT OF FREQUENCY HOPPING FOR UES WITH REDUCED BANDWIDTH SUPPORT	14/748814	US-2016-0226639-A1	US		8/4/2016
4981	DYNAMIC LOW IF INJECTION SIDE SELECTION	14/750640		US		
4982	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	14/751054	US-2016-0212734-A1	US		7/21/2016
4983	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	14/751063	US-2016-0380646-A1	US		12/29/2016
4984	METHOD FOR PROCESSING RADIO SIGNALS AND MOBILE TERMINAL DEVICE	14/751149	US-2016-0381610-A1	US		12/29/2016
4985	MOBILE TERMINAL DEVICES AND METHODS OF PERFORMING RADIO MEASUREMENTS	14/751177	US-2016-0381588-A1	US		12/29/2016
4986	SIGNAL PROCESSING APPARATUS AND METHOD FOR PROCESSING A SIGNAL	14/751195		US		
4987	METHOD FOR FEEDBACK REPORTING AND A MOBILE COMMUNICATIONS DEVICE	14/751217	US-2016-0380687-A1	US		12/29/2016
4988	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	14/751436	US-2016-0212108-A1	US		7/21/2016
4989	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	14/751499	US-2016-0205004-A1	US		7/14/2016
4990	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION USING A PCS PROTOCOL	14/751546	US-2016-0212244-A1	US		7/21/2016
4991	ARCHITECTURE AND CONTROL OF ANALOG SELF-INTERFERENCE CANCELLATION	14/751579	US-2016-0380706-A1	US		12/29/2016
4992	INTERFERENCE CANCELLATION	14/751959	US-2016-0380657-A1	US		12/29/2016
4993	TRANSFORMER BASED DUPLEXER	14/752811	US-2016-0380604-A1	US		12/29/2016
4994	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE	14/753158	US-2016-0135141-A1	US		5/12/2016
4995	ANTENNA ARRANGEMENT	14/757569	US-2017-0187113-	US		6/29/2017

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4996	WIRELESS FIDELITY (WI-FI) CLEAR CHANNEL ASSESMENT (CCA) DETECTION AND TRANSMISSION DECISION MAKING IN A PORTABLE DEVICE	14/757815	US-2017-0187473-A1	US		6/29/2017
4997	TARGETED GROUP-BASED DISCOVERY FOR WIRELESS COMMUNICATION DEVICES	14/762762	US-2015-0359023-A1	US	7/22/2015	12/10/2015
4998	PATH SWITCHING PROCEDURE FOR DEVICE-TO-DEVICE COMMUNICATION	14/762764	US-2015-0359033-A1	US	7/22/2015	12/10/2015
4999	LINK-AWARE STREAMING ADAPTATION	14/763123	US-2015-0373077-A1	US	7/23/2015	12/24/2015
5000	IMPROVED HANDOVER WITH PING PONG AVOIDANCE IN A WIRELESS NETWORK	14/763204	US-2015-0373596-A1	US	7/24/2015	12/24/2015
5001	UE-BASED D2D DISCOVERY	14/763209	US-2015-0365942-A1	US	7/24/2015	12/17/2015
5002	QUASI CO-LOCATION AND PDSCH RESOURCE ELEMENT MAPPING SIGNALING FOR NETWORK ASSISTED INTERFERENCE MITIGATION	14/764540	US-2015-0365154-A1	US	7/29/2015	12/17/2015
5003	PHYSICAL RESOURCE BLOCK (PRB)-RESTRICTED INTERFERENCE AVERAGING IN A WIRELESS COMMUNICATION SYSTEM	14/764547	US-2015-0365960-A1	US	7/29/2015	12/17/2015
5004	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES	14/765285	US-2015-0373510-A1	US	7/31/2015	12/24/2015
5005	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	14/765524	US-2015-0373563-A1	US	8/3/2015	12/24/2015
5006	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	14/766728	US-2015-0373604-A1	US	8/7/2015	12/24/2015
5007	METHOD AND APPARATUS FOR CONFIGURING AND USING SMALL DATA RADIO BEARERS	14/766850	US-2015-0373733-A1	US	8/10/2015	12/24/2015
5008	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	14/766873	US-2015-0382201-A1	US	8/10/2015	12/31/2015
5009	ENODEB REFERENCE SIGNAL REDUCTION	14/766952	US-2016-0020843-A1	US	8/10/2015	1/21/2016
5010	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	14/767671	US-2016-0014589-A1	US	8/13/2015	1/14/2016
5011	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	14/768298	US-2016-0014184-A1	US	8/17/2015	1/14/2016
5012	RADIO ACCESS TECHNOLOGY SELECTION IN A HETEROGENEOUS NETWORK	14/769187	US-2015-0382224-A1	US	8/20/2015	12/31/2015
5013	LOW POWER DEVICE TO DEVICE TRANSMISSION	14/769411	US-2015-0382365-A1	US	8/20/2015	12/31/2015
5014	TECHNIQUES TO FACILITATE DUAL CONNECTIVITY	14/770141	US-2016-0014836-A1	US	8/25/2015	1/14/2016
5015	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	14/770666	US-2016-0014632-A1	US	8/26/2015	1/14/2016

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5016	ESTABLISHMENT OF CONNECTION TO THE INTERNET IN CELLULAR NETWORK	14/770880	US-2016-0007346-A1	US	8/27/2015	1/7/2016
5017	WIRELESS LOCAL AREA NETWORK (WLAN) TRAFFIC LOAD MEASUREMENT PROVISIONING TO WIRELESS CELLULAR NETWORKS	14/771839	US-2016-0029249-A1	US	9/1/2015	1/28/2016
5018	NETWORK-ASSISTED LTE CHANNEL ACQUISITION	14/771853	US-2016-0021593-A1	US	9/1/2015	1/21/2016
5019	SYSTEMS AND METHODS USING A CENTRALIZED NODE TO COLLECT RAN USER PLANE CONGESTION INFORMATION	14/771859	US-2016-0029247-A1	US	9/1/2015	1/28/2016
5020	SYSTEMS METHODS AND DEVICES FOR DISTRIBUTED SCHEDULING FOR DEVICE-TO-DEVICE INTERFERENCE MITIGATION	14/771869	US-2016-0037547-A1	US	9/1/2015	2/4/2016
5021	APPARATUS SYSTEM AND METHOD OF USER-EQUIPMENT (UE) CENTRIC TRAFFIC ROUTING	14/772495	US-2016-0020890-A1	US	9/3/2015	1/21/2016
5022	APPARATUS SYSTEM AND METHOD OF CELLULAR NETWORK COMMUNICATIONS CORRESPONDING TO A NON-CELLULAR NETWORK	14/772523	US-2016-0014667-A1	US	9/3/2015	1/14/2016
5023	FAST RADIO LINK RECOVERY FOR LTE NETWORKS	14/773295	US-2016-0014646-A1	US	9/4/2015	1/14/2016
5024	PAGING REPETITION FOR INCREASED ROBUSTNESS FOR EXTENDED PAGING CYCLES	14/773296	US-2016-0029344-A1	US	9/4/2015	1/28/2016
5025	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	14/776069	US-2016-0021606-A1	US	9/14/2015	1/21/2016
5026	INTERNET PROTOCOL (IP) MULTIMEDIA SUBSYSTEM (IMS) BASED PEER-TO-PEER (P2P) CONTENT DISTRIBUTION	14/776625	US-2016-0044099-A1	US	9/14/2015	2/11/2016
5027	RADIO LINK MONITORING FOR EPDCCH	14/777122	US-2016-0029234-A1	US	9/15/2015	1/28/2016
5028	HYBRID REFERENCE SIGNALS FOR WIRELESS COMMUNICATION	14/778037	US-2016-0294514-A1	US	9/17/2015	10/6/2016
5029	WIRELESS TRANSMISSION PRECODING	14/778040	US-2016-0308593-A1	US	9/17/2015	10/20/2016
5030	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	14/778098	US-2016-0157095-A1	US	9/18/2015	6/2/2016
5031	QUALITY-AWARE RATE ADAPTATION TECHNIQUES FOR DASH STREAMING	14/778705	US-2016-0050246-A1	US	9/21/2015	2/18/2016
5032	DUAL CONNECTIVITY FOR TERMINALS SUPPORTING ONE UPLINK CARRIER	14/778801	US-2016-0050706-A1	US	9/21/2015	2/18/2016
5033	DIAMETER/XML PROTOCOL CONVERSION	14/778983	US-2016-0056992-A1	US	9/21/2015	2/25/2016
5034	UPLINK ENHANCEMENTS FOR EFFICIENT OPERATION IN SMALL CELL ENVIRONMENTS	14/778985	US-2016-0057769-A1	US	9/21/2015	2/25/2016
5035	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	14/779024	US-2016-0057701-A1	US	9/22/2015	2/25/2016
5036	WIRELESS LOCAL AREA NETWORK (WLAN) SELECTION RULES	14/779228	US-2016-0050619-A1	US	9/22/2015	2/18/2016

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5037	THROUGHPUT CHARACTERIZATION	14/779243	US-2016-0050133-A1	US	9/22/2015	2/18/2016
5038	METHODS APPARATUSES AND SYSTEMS FOR RETRIEVING DATA FROM A WIRELESS LOCAL AREA NETWORK (WLAN) ACCESS POINT	14/779548	US-2016-0044660-A1	US	9/23/2015	2/11/2016
5039	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	14/779557	US-2016-0044453-A1	US	9/23/2015	2/11/2016
5040	EFFICIENT USER SERVICE OR CONTENT REPRESENTATION FOR DEVICE COMMUNICATION	14/779947	US-2016-0050701-A1	US	9/24/2015	2/18/2016
5041	NETWORK SCHEDULED DEVICE TO DEVICE COMMUNICATION	14/781497	US-2016-0044704-A1	US	9/30/2015	2/11/2016
5042	DATA RETRANSMISSIONS IN AN ANCHOR-BOOSTER NETWORK	14/782780	US-2016-0044690-A1	US	10/6/2015	2/11/2016
5043	SMALL DATA COMMUNICATIONS	14/782781	US-2016-0057797-A1	US	10/6/2015	2/25/2016
5044	REDUCTION OF BUFFER OVERFLOW	14/782783	US-2016-0057044-A1	US	10/6/2015	2/25/2016
5045	SMALL DATA COMMUNICATIONS	14/782784	US-2016-0029417-A1	US	10/6/2015	1/28/2016
5046	REDUCTION OF USER PLANE CONGESTION	14/783043	US-2016-0050585-A1	US	10/7/2015	2/18/2016
5047	HYBRID DIGITAL AND ANALOG BEAMFORMING FOR LARGE ANTENNA ARRAYS	14/784256	US-2016-0080051-A1	US	10/13/2015	3/17/2016
5048	MULTIPLE-INPUT MULTIPLE-OUTPUT CELLULAR NETWORK COMMUNICATIONS	14/784257	US-2016-0065290-A1	US	10/13/2015	3/3/2016
5049	INCREASING SPECTRAL EFFICIENCY IN A HETEROGENEOUS NETWORK	14/784258	US-2016-0057636-A1	US	10/13/2015	2/25/2016
5050	MULTIPLE RADIO LINK CONTROL (RLC) GROUPS	14/785116	US-2016-0094446-A1	US	10/16/2015	3/31/2016
5051	NETWORK SELECTION IN A HETEROGENEOUS NETWORK	14/786145	US-2016-0073287-A1	US	10/21/2015	3/10/2016
5052	NETWORK ASSISTED DEVICE TO DEVICE COMMUNICATION	14/787225	US-2016-0113050-A1	US	10/26/2015	4/21/2016
5053	CARRIER MEASUREMENTS FOR MULTI-CARRIER DEVICES	14/794724	US-2017-0013630-A1	US		1/12/2017
5054	DEVICE TO DEVICE COMMUNICATION WITH CLUSTER COORDINATING	14/797941	US-2016-0021526-A1	US	7/13/2015	1/21/2016
5055	PRINCIPAL EIGEN BEAM QUANTIZATION FOR MIMO SYSTEMS	14/798820	US-2016-0013838-A1	US		1/14/2016
5056	RADIO COMMUNICATION DEVICES AND METHODS FOR CONTROLLING A RADIO COMMUNICATION DEVICE	14/801872	US-2016-0049970-A1	US		2/18/2016
5057	CARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G	14/802901	US-2016-0226632-A1	US		8/4/2016
5058	INTERACTIVE VIDEO CONFERENCING	14/807294	US-2016-0165185-A1	US		6/9/2016
5059	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	14/812833	US-2016-0212780-A1	US		7/21/2016

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5060	UPLINK SYNCHRONIZATION WITH ASSISTED mmWAVE ENHANCED NODE B	14/827678	US-2017-0055298-A1	US		2/23/2017
5061	METHODS APPARATUSES AND SYSTEMS FOR ENHANCEMENT OF EVOLVED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MACHINE TYPE COMMUNICATIONS	14/828071	US-2016-0302174-A1	US		10/13/2016
5062	MOBILE TERMINAL DEVICES AND METHODS OF DETECTING REFERENCE SIGNALS	14/830797	US-2017-0054538-A1	US		2/23/2017
5063	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION	14/835031	US-2016-0094235-A1	US		3/31/2016
5064	ENABLING RADIO FREQUENCY MULTIPLEXING IN A WIRELESS SYSTEM	14/835828	US-2017-0063404-A1	US		3/2/2017
5065	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE RELAY COMMUNICATION	14/835944	US-2016-0270134-A1	US		9/15/2016
5066	USER EQUIPMENT AND METHODS FOR CELL RESELECTION USING SCALED TIME-TO-TRIGGER AND A3 OFFSET VALUES	14/845019	US-2016-0066243-A1	US		3/3/2016
5067	SYSTEMS AND METHODS FOR CROSS-LAYER BEARER SPLITTING AND CROSS-RADIO ACCESS TECHNOLOGY RETRANSMISSION	14/851771	US-2017-0078890-A1	US		3/16/2017
5068	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	14/855411	US-2017-0079009-A1	US		3/16/2017
5069	CIRCUIT AND METHOD FOR PROVIDING A RADIO FREQUENCY SIGNAL	14/856781	US-2016-0182100-A1	US		6/23/2016
5070	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	14/856854	US-2016-0182072-A1	US		6/23/2016
5071	APPARATUS AND METHOD FOR GENERATING A TRANSMIT SIGNAL	14/858133	US-2016-0182101-A1	US		6/23/2016
5072	DEVICE SYSTEM AND METHOD OF CELL SPECIFIC PROBABILITY LOAD BALANCING	14/859633	US-2016-0302118-A1	US		10/13/2016
5073	POSITIONING DEVICE AND METHOD FOR DETERMINING THE POSITION OF A COMMUNICATION DEVICE	14/860740	US-2017-0082729-A1	US		3/23/2017
5074	METHODS FOR PERFORMING WIRELESS COMMUNICATIONS MOBILE TERMINAL DEVICES AND SERVERS	14/860760	US-2017-0086131-A1	US		3/23/2017
5075	HYBRID I/Q AND POLAR TRANSMITTER	14/861005		US		
5076	FREQUENCY GENERATOR METHOD AND COMPUTER PROGRAM	14/861056	US-2016-0182026-A1	US		6/23/2016

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5077	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	14/861828	US-2016-0302234-A1	US		10/13/2016
5078	SYSTEMS METHODS AND DEVICES FOR SECURE DEVICE-TO-DEVICE DISCOVERY AND COMMUNICATION	14/863168	US-2016-0269185-A1	US		9/15/2016
5079	MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	14/864883	US-2017-0094485-A1	US		3/30/2017
5080	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	14/864974	US-2017-0094678-A1	US		3/30/2017
5081	MOBILE TERMINAL DEVICES MOBILE PROCESSING CIRCUITS AND METHODS OF PROCESSING SIGNALS	14/864995	US-2017-0093538-A1	US		3/30/2017
5082	CLOSED-LOOP POWER CONTROL IN MULTI-TRANSMISSION WIRELESS SYSTEMS	14/865369	US-2017-0094608-A1	US		3/30/2017
5083	ANTENNA SYSTEM	14/865829	US-2017-0093031-A1	US		3/30/2017
5084	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	14/871499	US-2016-0021570-A1	US		1/21/2016
5085	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY	14/872015	US-2017-0094606-A1	US		3/30/2017
5086	PREAMBLE-BASED TRANSMISSION POWER DETECTION	14/872069	US-2017-0093504-A1	US		3/30/2017
5087	DEVICE SYSTEM AND GLOBAL NAVIGATION SATELLITE SYSTEM METHOD USING LOCAL FINE TIME INFORMATION	14/879231	US-2017-0102462-A1	US		4/13/2017
5088	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	14/881019	US-2016-0269925-A1	US		9/15/2016
5089	SYSTEMS AND METHODS FOR MOBILITY STATE ESTIMATION FRAMEWORK FOR LTE NETWORK	14/902292	US-2016-0373994-A1	US	12/30/2015	12/22/2016
5090	METHOD AND SYSTEM OF ADVANCED INTERFERENCE CANCELLATION ON PDSCH AT THE UE	14/903575	US-2016-0173262-A1	US	1/7/2016	6/16/2016
5091	NETWORK MANAGEMENT	14/903576	US-2016-0156440-A1	US	1/7/2016	6/2/2016
5092	METHOD APPARATUS AND SYSTEM FOR ELECTRICAL DOWNTILT ADJUSTMENT IN A MULTIPLE INPUT MULTIPLE OUTPUT SYSTEM	14/911262	US-2016-0191135-A1	US	2/9/2016	6/30/2016
5093	DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA	14/912587	US-2016-0205651-A1	US	2/17/2016	7/14/2016
5094	EARLY TTT TERMINATION	14/912588	US-2016-0205601-A1	US	2/17/2016	7/14/2016
5095	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	14/914331	US-2016-0234702-A1	US	2/25/2016	8/11/2016

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5096	USER EQUIPMENT AND MOBILITY MANAGEMENT ENTITY AND METHODS FOR PERIODIC UPDATE IN CELLULAR NETWORKS	14/916843	US-2016-0255602-A1	US	3/4/2016	9/1/2016
5097	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	14/917154	US-2016-0234847-A1	US	3/7/2016	8/11/2016
5098	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	14/917451	US-2016-0227580-A1	US	3/8/2016	8/4/2016
5099	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	14/918990	US-2016-0192410-A1	US		6/30/2016
5100	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	14/927965	US-2016-0278147-A1	US		9/22/2016
5101	METHODS FOR PERFORMING RADIO MEASUREMENTS AND MOBILE TERMINAL DEVICES	14/930702	US-2017-0127305-A1	US		5/4/2017
5102	METHODS IN SHORT RANGE RADIO COMMUNICATION MASTER SUBSYSTEMS MOBILE DEVICES AND MULTI-MODE RADIO COMMUNICATION SYSTEMS	14/934257	US-2017-0134882-A1	US		5/11/2017
5103	METHODS AND DEVICES FOR DETERMINING INTERMODULATION DISTORTIONS	14/935416	US-2016-0134311-A1	US		5/12/2016
5104	AGGREGATED WIRELESS DRIVER AND METHOD	14/937412	US-2017-0135137-A1	US		5/11/2017
5105	RADIO COMMUNICATION DEVICES AND METHODS FOR PERFORMING WIRELESS PEER-TO-PEER DISCOVERY	14/948488	US-2017-0150337-A1	US		5/25/2017
5106	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	14/951295	US-2016-0081013-A1	US		3/17/2016
5107	PERFORMING PRIMARY CELL FUNCTIONS IN A SECONDARY CELL	14/957488	US-2016-0338137-A1	US		11/17/2016
5108	BYPASS RING TO IMPROVE NOISE ISOLATION OF COILS AND INDUCTORS	14/958365		US		
5109	DOCKING STATION AND METHOD TO CONNECT TO A DOCKING STATION	14/963372	US-2017-0171894-A1	US		6/15/2017
5110	DEVICE AND METHOD FOR RADIO ACCESS TECHNOLOGY SEARCH	14/964600	US-2017-0171799-A1	US		6/15/2017
5111	SYSTEMS METHODS AND DEVICES FOR LICENSED SHARED ACCESS MANAGEMENT WITH DISTRIBUTED INFORMATION STORAGE	14/974507	US-2016-0212624-A1	US		7/21/2016
5112	DEVICE AND METHOD FOR USER ORIGINATED MULTIPLE CONNECTION MANAGEMENT TRANSACTIONS VIA CIRCUIT SWITCHED FALLBACK	14/975884	US-2017-0181042-A1	US		6/22/2017

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5113	SYSTEMS AND METHODS FOR AGGREGATING AN ENHANCED MULTIMEDIA BROADCAST MULTICAST SERVICE OVER MULTIPLE FREQUENCY CARRIERS	14/976240	US-2016-0241412-A1	US		8/18/2016
5114	ARCHITECTURE AND CONTROL OF HYBRID COUPLER BASED ANALOG SELF-INTERFERENCE CANCELLATION	14/976647		US		
5115	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	14/976736	US-2016-0227514-A1	US		8/4/2016
5116	CELL SEARCH AND SYNCHRONIZATION IN MILLIMETER-WAVE CAPABLE SMALL CELLS	14/977412	US-2017-0181134-A1	US		6/22/2017
5117	USER EQUIPMENT AND METHOD FOR MEASUREMENT OF SIDE-LINK REFERENCE SIGNAL RECEIVED POWER (S-RSRP)	14/977463	US-2017-0181011-A1	US		6/22/2017
5118	MULTI-HARMONIC MATCHING NETWORKS	14/978231	US-2017-0179917-A1	US		6/22/2017
5119	SYSTEM AND METHOD FOR EMERGENCY SECURE USER PLANE LOCATION POSITIONING	14/978285	US-2017-0181200-A1	US		6/22/2017
5120	SYSTEMS METHODS AND DEVICES WITH DIFFERENT RADIO LINK FAILURE TIMERS BASED ON USER EQUIPMENT SPEED	14/986245	US-2016-0128134-A1	US		5/5/2016
5121	DRX OPERATION FOR UL/DL RECONFIGURATION	14/991696	US-2016-0128131-A1	US		5/5/2016
5122	METHOD AND DEVICE FOR CANCELING A BIAS OF A RADIO CHANNEL SEQUENCE	14/993157	US-2016-0248612-A1	US		8/25/2016
5123	METHOD AND DEVICE FOR PROTECTING A DATA TRANSPORT BLOCK AGAINST MEMORY ERRORS AND TRANSMISSION ERRORS	14/993311	US-2016-0277148-A1	US		9/22/2016
5124	NETWORK COVERAGE HOLE DETECTION	15/006758	US-2016-0142961-A1	US		5/19/2016
5125	TECHNIQUES FOR BEAMFORMING TO MITIGATE MULTI-USER LEAKAGE AND INTERFERENCE	15/012620		US		
5126	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	15/013520	US-2016-0156454-A1	US		6/2/2016
5127	TECHNIQUES FOR IDENTIFYING PHYSICAL HYBRID AUTOMATIC REQUEST INDICATOR CHANNEL RESOURCES	15/022484	US-2016-0234809-A1	US	3/16/2016	8/11/2016
5128	SYNCHRONIZATION OF DEVICE TO DEVICE COMMUNICATION	15/022893	US-2016-0227496-A1	US	3/17/2016	8/4/2016
5129	RESOURCE SELECTION IN DEVICE TO DEVICE COMMUNICATION	15/023063	US-2016-0234855-A1	US	3/18/2016	8/11/2016
5130	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	15/026174	US-2016-0219541-A1	US	3/30/2016	7/28/2016
5131	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	15/026753	US-2016-0255615-A1	US	4/1/2016	9/1/2016

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5132	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	15/026788	US-2016-0255640-A1	US	4/1/2016	9/1/2016
5133	APPARATUS AND A METHOD FOR PROVIDING OSCILLATOR SIGNALS	15/045783	US-2016-0285469-A1	US		9/29/2016
5134	APPARATUS AND A METHOD FOR PROCESSING A SIGNAL DEPENDING ON A RECEIVED RADIO FREQUENCY SIGNAL	15/045786	US-2016-0285587-A1	US		9/29/2016
5135	RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT RELATED TO A BASEBAND TRANSMIT SIGNAL IN A BASEBAND RECEIVE SIGNAL	15/046935	US-2016-0285487-A1	US		9/29/2016
5136	MOBILE RADIO COMMUNICATION DEVICES MOBILE RADIO COMMUNICATION NETWORKS AND METHODS FOR CONTROLLING THE SAME	15/047733	US-2016-0323929-A1	US		11/3/2016
5137	DIGITAL-TO-ANALOG CONVERTER CIRCUIT AN APPARATUS FOR PROVIDING A RADIO FREQUENCY TRANSMIT SIGNAL AND A METHOD OF DIGITAL-TO-ANALOG CONVERSION	15/048143	US-2016-0285470-A1	US		9/29/2016
5138	SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION	15/056965	US-2017-0079059-A1	US		3/16/2017
5139	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	15/060120	US-2016-0191630-A1	US		6/30/2016
5140	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	15/060390	US-2016-0183149-A1	US		6/23/2016
5141	TRANSMIT AMPLITUDE AND PHASE MODULATION BASED ON TWO CONSTANT-AMPLITUDE PHASORS	15/064020		US		
5142	COMMUNICATION OF SECURITY KEY INFORMATION	15/070461	US-2016-0198343-A1	US		7/7/2016
5143	HYBRID I-Q POLAR TRANSMITTER WITH QUADRATURE LOCAL OSCILLATOR (LO) PHASE CORRECTION	15/071867		US		
5144	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	15/076500	US-2017-0055239-A1	US		2/23/2017
5145	CIRCUIT INTEGRATED CIRCUIT RECEIVER TRANSCEIVER AND METHOD FOR RECEIVING A SIGNAL	15/077197	US-2016-0316434-A1	US		10/27/2016
5146	METHODS AND COMMUNICATION DEVICES FOR PERFORMING CELL SEARCH AND DETECTION	15/079119	US-2017-0280374-A1	US		9/28/2017
5147	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	15/083897	US-2016-0227166-A1	US		8/4/2016
5148	DEVICES AND METHOD FOR CELL SEARCH AND DETECTION	15/084521		US		
5149	METHODS AND DEVICES FOR CELL SEARCH	15/086252	US-2017-0289960-A1	US		10/5/2017

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5150	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	15/088179	US-2017-0289958-A1	US		10/5/2017
5151	METHODS AND DEVICES FOR SPUR CANCELLATION IN DIGITAL PHASE LOCKED LOOPS	15/088388	US-2017-0288851-A1	US		10/5/2017
5152	USER EQUIPMENT DISTRIBUTION INFORMATION COLLECTION	15/088959	US-2016-0219445-A1	US		7/28/2016
5153	FINE TIMING MEASUREMENT BURST MANAGEMENT	15/094010		US		
5154	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	15/096504	US-2016-0337835-A1	US		11/17/2016
5155	USER EQUIPMENT AND EVOLVED NODE-B AND METHODS FOR RANDOM ACCESS FOR MACHINE TYPE COMMUNICATION	15/111762	US-2016-0338111-A1	US	7/14/2016	11/17/2016
5156	USER EQUIPMENT COMPUTER READABLE MEDIUM AND METHOD TO DETERMINE THE MOBILITY OF USER EQUIPMENT IN A LONG-TERM EVOLUTION NETWORK	15/111880	US-2016-0338002-A1	US	7/15/2016	11/17/2016
5157	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	15/112116	US-2016-0345243-A1	US	7/15/2016	11/24/2016
5158	ACCESS POINT POSITION DETERMINATION BY MOBILE DEVICES CROWD SOURCING	15/113481	US-2017-0034657-A1	US	7/22/2016	2/2/2017
5159	CIRCUIT SWITCHED FALLBACK	15/114718	US-2016-0345210-A1	US	7/27/2016	11/24/2016
5160	USER EQUIPMENT AND METHODS TO INDICATE POWER SAVING MODE CONFIGURATION TO RAN NODES	15/115770	US-2017-0013515-A1	US	8/1/2016	1/12/2017
5161	USER EQUIPMENT AND METHODS FOR HANDOVER INITIATION	15/116040	US-2017-0188273-A1	US	8/2/2016	6/29/2017
5162	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CIRCUIT-SWITCHED FALLBACK (CSFB) TO SHORTEN CALL SETUP TIME	15/119856	US-2017-0064584-A1	US	8/18/2016	3/2/2017
5163	SYSTEMS AND METHODS FOR VARIED CELL BARRING TIMES	15/119941	US-2017-0135024-A1	US	8/18/2016	5/11/2017
5164	APPARATUS SYSTEM AND METHOD OF SECURING COMMUNICATIONS OF A USER EQUIPMENT (UE) IN A WIRELESS LOCAL AREA NETWORK	15/121059	US-2016-0366707-A1	US	8/24/2016	12/15/2016
5165	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	15/122495	US-2017-0078904-A1	US	8/30/2016	3/16/2017
5166	METHOD AND APPARATUS FOR WI-FI LOCATION DETERMINATION	15/123797	US-2017-0019876-A1	US	9/6/2016	1/19/2017
5167	LISTEN BEFORE TALK PROTOCOL SELECTION	15/124953	US-2017-0034851-A1	US	9/9/2016	2/2/2017
5168	METHOD APPARATUS AND SYSTEM FOR MEASURING A POSITION OF A USER EQUIPMENT IN A WIRELESS NETWORK	15/125561	US-2017-0223655-A1	US	9/12/2016	8/3/2017

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5169	APPARATUSES SYSTEMS AND METHODS FOR PAGING ENHANCEMENTS FOR LOW COMPLEXITY USER EQUIPMENT	15/126560	US-2017-0086165-A1	US	9/15/2016	3/23/2017
5170	METHOD AND APPARATUS OF UE AND ENB FOR MTC WITH NARROWBAND DEPLOYMENT	15/128370	US-2017-0195102-A1	US	9/22/2016	7/6/2017
5171	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	15/129263	US-2017-0180086-A1	US	9/26/2016	6/22/2017
5172	TECHNIQUES FOR COORDINATED APPLICATION OF WIRELESS NETWORK SELECTION AND TRAFFIC ROUTING RULES	15/129372	US-2017-0181070-A1	US	9/26/2016	6/22/2017
5173	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	15/137021	US-2016-0301456-A1	US		10/13/2016
5174	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING	15/137974	US-2016-0255533-A1	US		9/1/2016
5175	TECHNIQUES AND SYSTEMS FOR EXTENDED DISCONTINUOUS RECEPTION	15/141541	US-2016-0249406-A1	US		8/25/2016
5176	METHODS AND DEVICES FOR PERFORMING CIRCUIT-SWITCHED FALLBACK	15/145829	US-2017-0325130-A1	US		11/9/2017
5177	Digital Pre-Emphasis Quadrature Imbalance Compensating Filter	15/168552	US-2017-0346509-A1	US		11/30/2017
5178	CHANNEL ESTIMATION AND COMPENSATION IN HIGH SPEED SCENARIOS	15/170712	US-2017-0099175-A1	US		4/6/2017
5179	REFERENCE SIGNAL PATH FOR CLOCK GENERATION WITH AN INJECTION LOCKED MULTIPLIER (ILM)	15/171373	US-2017-0353159-A1	US		12/7/2017
5180	MULTIPLE MODULATED SPUR CANCELLATION APPARATUS	15/179211	US-2017-0359136-A1	US		12/14/2017
5181	INTERACTIVE VIDEO CONFERENCING	15/180510	US-2016-0295166-A1	US		10/6/2016
5182	METHODS AND DEVICES FOR PERFORMING DUPLEX MODE DETECTION	15/183866		US		
5183	METHOD AND EVOLVED NODE-B FOR GEOGRAPHIC BIN DATA COLLECTION AND REPORTING	15/185994	US-2016-0302089-A1	US		10/13/2016
5184	AUTOMATIC GAIN CONTROL GAIN ADJUSTMENT	15/186663	US-2017-0048808-A1	US		2/16/2017
5185	SIGNALING FOR PROXIMITY SERVICES AND D2D DISCOVERY IN AN LTE NETWORK	15/186779	US-2016-0302251-A1	US		10/13/2016
5186	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	15/186832	US-2016-0359548-A1	US		12/8/2016
5187	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	15/187863		US		
5188	HARMONIC SUPPRESSING LOCAL OSCILLATOR SIGNAL GENERATION	15/188267	US-2017-0366280-A1	US		12/21/2017
5189	COMMUNICATION DEVICE AND METHOD FOR DECODING DATA FROM	15/191564	US-2017-0374651-A1	US		12/28/2017

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	A NETWORK					
5190	FREQUENCY RECONFIGURABLE ANTENNA DECOUPLING FOR WIRELESS COMMUNICATION	15/193958	US-2017-0373393-A1	US		12/28/2017
5191	SYSTEMS AND METHODS FOR WLAN NETWORK SELECTION	15/194288	US-2016-0309405-A1	US		10/20/2016
5192	FREQUENCY BASED BIAS VOLTAGE SCALING FOR PHASE LOCKED LOOPS	15/194999	US-2017-0373694-A1	US		12/28/2017
5193	DIGITAL-CENTRIC FULL-DUPLEX ARCHITECTURE	15/197528	US-2018-0006795-A1	US		1/4/2018
5194	Performance Indicator for Phase Locked Loops	15/198115		US		
5195	DIGITAL TIME CONVERTER SYSTEMS AND METHOD	15/199217		US		
5196	SHORT RANGE RADIO COMMUNICATION DEVICE AND A METHOD OF CONTROLLING A SHORT RANGE RADIO COMMUNICATION DEVICE	15/200159	US-2018-0006681-A1	US		1/4/2018
5197	BIT-ERROR RATE FALSE POSITIVE DETECTION SYSTEM AND METHOD	15/201402	US-2018-0006662-A1	US		1/4/2018
5198	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	15/202264	US-2016-0315739-A1	US		10/27/2016
5199	QUANTIZED EIGEN BEAMS FOR CONTROLLING ANTENNA ARRAY ELEMENTS IN A WIRELESS NETWORK	15/210977	US-2016-0352395-A1	US		12/1/2016
5200	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	15/216378	US-2016-0329934-A1	US		11/10/2016
5201	CONTENT URL AUTHENTICATION FOR DASH	15/221499	US-2017-0134356-A1	US		5/11/2017
5202	METHOD AND A SYSTEM FOR CONTROLLING A PLURALITY OF ELECTRONIC COMPONENTS ARBITRARILY ASSIGNABLE TO A PLURALITY OF INTEGRATED CIRCUITS OF A MOBILE COMMUNICATIONS DEVICE	15/223521	US-2017-0063583-A1	US		3/2/2017
5203	CALIBRATING RF PATH DELAY AND IQ PHASE IMBALANCE FOR POLAR TRANSMIT SYSTEM	15/231379	US-2016-0352439-A1	US		12/1/2016
5204	RADIO RECEIVER AND METHOD FOR PROCESSING AN UPLINK TRANSPORT BLOCK	15/238242	US-2017-0086171-A1	US		3/23/2017
5205	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	15/241361	US-2016-0373287-A1	US		12/22/2016
5206	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	15/243132	US-2017-0047955-A1	US		2/16/2017
5207	APPARATUS AND METHOD FOR GENERATING AN OSCILLATOR SIGNAL	15/243343	US-2016-0359457-A1	US		12/8/2016
5208	COMMUNICATION DEVICE AND METHOD FOR WIRELESS COMMUNICATIONS	15/252242	US-2018-0063817-A1	US		3/1/2018

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5209	ARRANGEMENT FOR CONCURRENT DETECTION OF SIGNALS IN A RECEIVER	15/252707	US-2018-0063873-A1	US		3/1/2018
5210	SUBSCRIBER IDENTITY MODULE PROVIDER APPARATUS FOR OVER-THE-AIR PROVISIONING OF SUBSCRIBER IDENTITY MODULE CONTAINERS AND METHODS	15/255509		US		
5211	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	15/256105	US-2016-0374141-A1	US		12/22/2016
5212	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	15/260020	US-2016-0381617-A1	US		12/29/2016
5213	RECONFIGURATION CONTROL CHANNEL RESOURCE MAPPING COLLISION AVOIDANCE	15/262348	US-2017-0064696-A1	US		3/2/2017
5214	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	15/264956	US-2017-0134967-A1	US		5/11/2017
5215	AMPLITUDE-MODULATION SIGNAL AND PHASE-MODULATION SIGNAL DELAY ADJUSTMENT FOR POLAR TRANSMITTER	15/268955		US		
5216	METRICS FOR TRAFFIC STEERING IN A WIRELESS NETWORK	15/272383	US-2017-0013496-A1	US		1/12/2017
5217	POWER ESTIMATION SYSTEM AND METHOD	15/274394	US-2018-0091984-A1	US		3/29/2018
5218	PAPR reduction for IQ RFDAC TRANSMITTER PERFORMANCE	15/274721	US-2018-0091338-A1	US		3/29/2018
5219	CALIBRATION SYSTEMS AND METHODS	15/276009	US-2018-0091241-A1	US		3/29/2018
5220	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	15/276091	US-2017-0013571-A1	US		1/12/2017
5221	WIRELESS LINK CONTROL AND RECOVERY USING POSITIONAL DATA	15/279499	US-2018-0091202-A1	US		3/29/2018
5222	CELLULAR TELEPHONE NETWORK TO NARROW BAND - INTERNET OF THINGS NETWORK SWITCHING METHOD AND APPARATUS	15/279634		US		
5223	COORDINATED BLUETOOTH - WIFI SCHEDULING WITH BLUETOOTH SLOT AVAILABILITY MASK	15/280187	US-2018-0091929-A1	US		3/29/2018
5224	CAMPING APPROACH IN MULTI-SIM USER EQUIPMENT WHEN PRESENT IN COVERAGE HOLES OF RESPECTIVE NETWORK OPERATORS	15/281117	US-2018-0098262-A1	US		4/5/2018
5225	APPARATUS SYSTEM AND METHOD OF COMMUNICATING NON-CELLULAR ACCESS NETWORK INFORMATION OVER A CELLULAR NETWORK	15/294731	US-2017-0142691-A1	US		5/18/2017
5226	FREQUENCY DIFFERENCE DETERMINATION	15/295073		US		

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5227	AN APPARATUS AND METHOD ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	15/300817	US-2017-0105227-A1	US	9/30/2016	4/13/2017
5228	VIRTUALIZED NETWORK FUNCTION MANAGEMENT	15/323505	US-2017-0150399-A1	US	1/3/2017	5/25/2017
5229	PDCCH DESIGN FOR NARROWBAND DEPLOYMENT	15/324441	US-2017-0223725-A1	US	1/6/2017	8/3/2017
5230	CONTROL OF TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	15/324515	US-2017-0201456-A1	US	1/6/2017	7/13/2017
5231	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	15/326419	US-2017-0215065-A1	US	1/13/2017	7/27/2017
5232	TECHNIQUES FOR EFFICIENT SMALL CELL DISCOVERY	15/332829		US		
5233	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	15/334218	US-2017-0063388-A1	US		3/2/2017
5234	CONTENT ACCESS AUTHENTICATION FOR DYNAMIC ADAPTIVE STREAMING OVER HYPERTEXT TRANSFER PROTOCOL	15/335307	US-2017-0303121-A1	US		10/19/2017
5235	CELL CHANGE IN A MULTI-CARRIER OPERATING CELLULAR RADIO NETWORK	15/346778	US-2017-0171790-A1	US		6/15/2017
5236	METHOD AND DEVICE FOR TEMPERATURE CONTROL IN A RADIO RECEIVER	15/347880	US-2017-0167745-A1	US		6/15/2017
5237	APPARATUS FOR REDUCING AN AMPLITUDE IMBALANCE AND A PHASE IMBALANCE BETWEEN AN IN-PHASE SIGNAL AND A QUADRATURE SIGNAL	15/349008	US-2017-0170915-A1	US		6/15/2017
5238	COMMUNICATION TERMINAL AND METHOD FOR RECEIVING DATA	15/350212	US-2017-0170991-A1	US		6/15/2017
5239	CIRCUIT AND A METHOD FOR ATTACHING A TIME STAMP TO A TRACE MESSAGE	15/350318	US-2017-0180236-A1	US		6/22/2017
5240	BYPASS RING TO IMPROVE NOISE ISOLATION OF COILS AND INDUCTORS	15/350552		US		
5241	METHOD FOR SOLVING CONFLICTS IN SCHEDULING CELL BROADCAST MESSAGE RECEPTION AND IDLE MODE TASKS OF A MOBILE DEVICE	15/354452	US-2017-0181184-A1	US		6/22/2017
5242	MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE	15/355092	US-2017-0180550-A1	US		6/22/2017
5243	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	15/356767	US-2017-0181107-A1	US		6/22/2017
5244	MOBILE TERMINAL DEVICE AND METHOD FOR PROCESSING SIGNALS	15/356776	US-2017-0180159-A1	US		6/22/2017
5245	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	15/356787	US-2017-0181096-A1	US		6/22/2017
5246	COMMUNICATION DEVICE AND METHOD FOR SIGNAL	15/356806	US-2017-0180066-A1	US		6/22/2017

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	DETERMINATION					
5247	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	15/357032	US-2017-0105127-A1	US		4/13/2017
5248	METHOD AND DEVICE FOR SCHEDULING CELL QUALITY MEASUREMENTS IN A MOBILE RECEIVER	15/357366	US-2017-0188274-A1	US		6/29/2017
5249	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SEARCH	15/357751	US-2017-0181068-A1	US		6/22/2017
5250	METHOD FOR SHARING A WIRELESS TRANSMISSION MEDIUM IN A TERMINAL DEVICE AND WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION CIRCUIT RELATED THERETO	15/357778	US-2017-0181148-A1	US		6/22/2017
5251	COMMUNICATION TERMINAL AND METHOD FOR SELECTING A COMMUNICATION ANTENNA	15/357824	US-2017-0181071-A1	US		6/22/2017
5252	LAWFUL INTERCEPTION FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION	15/363862		US		
5253	CONGESTION MEASUREMENT AND REPORTING FOR REAL-TIME DELAY-SENSITIVE APPLICATIONS	15/369128		US		
5254	DISCRETE LEVELS ENVELOPE TRACKING	15/371768	US-2018-0159566-A1	US		6/7/2018
5255	PROXIMITY-BASED SERVICES DISCOVERY PRIVACY	15/373950		US		
5256	COMMUNICATION SYSTEM AND METHOD	15/385096	US-2018-0176887-A1	US		6/21/2018
5257	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	15/386404	US-2017-0201977-A1	US		7/13/2017
5258	RADAR METHODS AND APPARATUS USING IN PHASED ARRAY COMMUNICATION SYSTEMS	15/389426	US-2018-0180713-A1	US		6/28/2018
5259	PUSHING BACK PACKET NOT ACKNOWLEDGED BY BASE STATION	15/390211	US-2018-0184322-A1	US		6/28/2018
5260	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL	15/392826	US-2017-0111150-A1	US		4/20/2017
5261	DEVICES AND METHODS FOR PROCESSING TRANSMISSIONS FROM MULTIPLE NETWORK ACCESS NODES BASED ON DISTINGUISHING FEATURES	15/393363	US-2018-0192449-A1	US		7/5/2018
5262	NETWORK PROFILE SYSTEM AND METHOD	15/393551	US-2018-0191572-A1	US		7/5/2018
5263	NETWORK COVERAGE HOLE DETECTION	15/394408	US-2017-0111830-A1	US		4/20/2017
5264	GENERATION AND USE OF A USER EQUIPMENT LOCATION DISTRIBUTION IN A WIRELESS COMMUNICATION NETWORK	15/394728	US-2017-0111764-A1	US		4/20/2017
5265	DISCONTINUOUS RECEPTION (DRX) ALIGNMENT TECHNIQUES FOR DUAL-CONNECTIVITY ARCHITECTURES	15/396477	US-2017-0111956-A1	US		4/20/2017
5266	RANDOM ACCESS PROCEDURE FOR DUAL CONNECTIVITY	15/397382		US		

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5267	USER EQUIPMENT AND METHODS FOR CODEBOOK SUBSAMPLING FOR ENHANCED 4TX CODEBOOKS	15/413182	US-2017-0272136-A1	US		9/21/2017
5268	APPARATUS AND METHOD FOR DETERMINING INFORMATION ON A POWER VARIATION OF A TRANSMIT SIGNAL	15/415654	US-2017-0295547-A1	US		10/12/2017
5269	GATEWAY ARRANGEMENTS FOR WIRELESS COMMUNICATION NETWORKS	15/418493	US-2017-0142762-A1	US		5/18/2017
5270	USER EQUIPMENT AND METHOD FOR TRANSMITTING A DATA STREAM TO AN EVOLVED NODE B	15/420871	US-2017-0142688-A1	US		5/18/2017
5271	POWER SAVING MODE OPTIMIZATIONS AND RELATED PROCEDURES	15/424429	US-2017-0245213-A1	US		8/24/2017
5272	TECHNIQUES FOR USER PLANE CONGESTION MITIGATION	15/425811	US-2018-0184417-A1	US		6/28/2018
5273	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	15/436693	US-2018-0020341-A1	US		1/18/2018
5274	DEVICE SYSTEM AND METHOD OF CONFIGURING A RADIO TRANSCEIVER	15/436978	US-2017-0302303-A1	US		10/19/2017
5275	FREQUENCY DEPENDENT ENVELOPE TRACKING	15/443260	US-2018-0248570-A1	US		8/30/2018
5276	SPUR CANCELANON USING INVERSE SPUR INJECTION	15/449078	US-2018-0254852-A1	US		9/6/2018
5277	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	15/452153	US-2017-0180106-A1	US		6/22/2017
5278	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	15/456125	US-2017-0188373-A1	US		6/29/2017
5279	SUBSCRIBER IDENTITY MODULE DATA ROUTING DEVICES METHODS FOR ROUTING SUBSCRIBER IDENTITY MODULE DATA CONTROL CIRCUITS AND METHODS FOR CONTROLLING A CHANGE OF A ROUTING	15/460326		US		
5280	TECHNIQUES FOR DEVICE-TO-DEVICE COMMUNICATIONS	15/470573		US		
5281	SYSTEMS AND METHODS TO COMPENSATE FOR MEMORY EFFECTS USING ENHANCED MEMORY POLYNOMIALS	15/471302		US		
5282	Feed-Forward Envelope Tracking	15/474186	US-2018-0287563-A1	US		10/4/2018
5283	Frequency domain based digital cancellation of modulated spur interference in LTE-CA transceivers	15/474243	US-2018-0287719-A1	US		10/4/2018
5284	RF Transmit Architecture Methods	15/476014	US-2018-0287821-A1	US		10/4/2018
5285	BINARY STOCHASTIC TIME-TO-DIGITAL CONVERTER AND METHOD	15/477057		US		
5286	EMERGENCY CALL HANDLING	15/477725	US-2017-0208180-	US		7/20/2017

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			A1			
5287	METHODS AND DEVICES FOR CIRCUIT-SWITCHED FALLBACK PROCEDURES	15/480410	US-2017-0332287-A1	US		11/16/2017
5288	ARCHITECTURE FOR WEB-BASED REAL-TIME COMMUNICATIONS (WEBRTC) TO ACCESS INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)	15/483831	US-2017-0244765-A1	US		8/24/2017
5289	APPARATUS AND METHODS FOR REDUCING SOFT BUFFER SIZE IN MTC DEVICES	15/484898	US-2017-0223480-A1	US		8/3/2017
5290	APPARATUS SYSTEM AND METHOD OF STEERING DATA RADIO BEARER TRAFFIC TO A WIRELESS LOCAL AREA NETWORK LINK	15/489451	US-2017-0289761-A1	US		10/5/2017
5291	METHOD AND DEVICE FOR MITIGATING INTERFERENCE DUE TO A WIRELESS CHARGING SIGNAL	15/491123	US-2017-0324484-A1	US		11/9/2017
5292	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	15/494408	US-2017-0288692-A1	US		10/5/2017
5293	METHOD AND DEVICE FOR GAIN ADJUSTMENT IN MOBILITY MEASUREMENTS	15/496531	US-2017-0325116-A1	US		11/9/2017
5294	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	15/496567	US-2017-0230814-A1	US		8/10/2017
5295	TRANSMISSION OF COMMON CONTROL MESSAGES FOR MACHINE-TYPE COMMUNICATION (MTC) USER EQUIPMENTS WITH REDUCED BANDWIDTH	15/501152	US-2017-0230951-A1	US	2/1/2017	8/10/2017
5296	MODIFIED ARCHITECTURE FOR CLOUD RADIO ACCESS NETWORKS AND APPROACH FOR COMPRESSION OF FRONT-HAUL DATA	15/501407	US-2017-0238361-A1	US	2/2/2017	8/17/2017
5297	APPARATUS SYSTEM AND METHOD OF RELAY BACKHAULING WITH MILLIMETER WAVE CARRIER AGGREGATION	15/503477	US-2017-0230893-A1	US	2/13/2017	8/10/2017
5298	APPARATUSES SYSTEMS AND METHODS FOR PROBABILISTIC TRANSMISSION OF DEVICE-TO-DEVICE (D2D) DISCOVERY MESSAGES	15/505887	US-2017-0280482-A1	US	2/22/2017	9/28/2017
5299	APPARATUS SYSTEM AND METHOD OF WIRELESS LOCAL AREA NETWORK (WLAN) SETTING OF A USER EQUIPMENT (UE)	15/506013	US-2017-0245208-A1	US	2/23/2017	8/24/2017
5300	MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	15/508331	US-2017-0311217-A1	US	3/2/2017	10/26/2017
5301	UL TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	15/510683	US-2017-0223698-A1	US	3/11/2017	8/3/2017
5302	NETWORK FUNCTIONS VIRTUALIZATION	15/510998	US-2017-0257276-A1	US	3/13/2017	9/7/2017

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5303	METHODS AND APPARATUSES FOR FLEXIBLE MOBILE STEERING IN CELLULAR NETWORKS	15/512511	US-2018-0375759-A1	US	3/17/2017	12/27/2018
5304	INCREASED CARRIER MONITORING	15/512822	US-2017-0251511-A1	US	3/20/2017	8/31/2017
5305	METHODS AND APPARATUSES TO FORM SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAUL LINKS	15/513116	US-2018-0249461-A1	US	3/21/2017	8/30/2018
5306	CONNECTION CONTROL FOR MACHINE TYPE COMMUNICATION (MTC) DEVICES	15/514444	US-2017-0251516-A1	US	3/24/2017	8/31/2017
5307	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	15/517430	US-2017-0303248-A1	US	4/6/2017	10/19/2017
5308	APPARATUS AND METHOD FOR NETWORK ASSISTED DOMAIN SELECTION	15/519639	US-2017-0251084-A1	US	4/17/2017	8/31/2017
5309	ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL IN MACHINE-TYPE COMMUNICATION	15/520981	US-2018-0026759-A1	US	4/21/2017	1/25/2018
5310	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	15/524842	US-2017-0374638-A1	US	5/5/2017	12/28/2017
5311	UPLINK SCHEDULING FOR LICENSE ASSISTED ACCESS	15/537024	US-2017-0366308-A1	US	6/16/2017	12/21/2017
5312	APPARATUS SYSTEM AND METHOD OF PROCESSING PDCP PDUs OF AN E-RAB	15/537990	US-2017-0367007-A1	US	6/20/2017	12/21/2017
5313	OTDOA (OBSERVED TIME DIFFERENCE OF ARRIVAL) POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	15/539896	US-2018-0011163-A1	US	6/26/2017	1/11/2018
5314	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	15/540923	US-2018-0007641-A1	US	6/29/2017	1/4/2018
5315	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	15/542032	US-2018-0020462-A1	US	7/6/2017	1/18/2018
5316	USER EQUIPMENT RADIO FREQUENCY AND BAND CAPABILITY FOR CARRIER AGGREGATION MEASUREMENT GAP	15/542260	US-2018-0006774-A1	US	7/7/2017	1/4/2018
5317	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	15/542262	US-2017-0374612-A1	US	7/7/2017	12/28/2017
5318	DEVICE SYSTEM AND METHOD EMPLOYING UNIFIED FLEXIBLE 5G AIR INTERFACE	15/542716	US-2018-0007673-A1	US	7/11/2017	1/4/2018
5319	SYSTEMS METHODS AND DEVICES FOR UPLINK TRANSMISSIONS WITH REDUCED SIGNALING OVERHEAD	15/546257	US-2018-0020365-A1	US	7/25/2017	1/18/2018
5320	APPARATUS SYSTEM AND METHOD OF OFFLOADING TRAFFIC OF A SECONDARY CELL GROUP (SCG)	15/550123	US-2018-0049062-A1	US	8/10/2017	2/15/2018
5321	METHODS AND APPARATUSES FOR MACHINE-TYPE COMMUNICATIONS IN CELLULAR NETWORKS	15/551885	US-2018-0041957-A1	US	8/17/2017	2/8/2018
5322	POSITIONING REFERENCE SYSTEM (PRS) DESIGN ENHANCEMENT	15/552588	US-2018-0054286-A1	US	8/22/2017	2/22/2018

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5323	SIGNALLING FOR PER CARRIER-COMPONENT BASED ENHANCED MEASUREMENT GAP CONFIGURATION	15/553071	US-2018-0034598-A1	US	8/23/2017	2/1/2018
5324	DEVICE SYSTEM AND METHOD OF QUASI-ORTHOGONAL MULTIPLE ACCESS	15/553363	US-2018-0124684-A1	US	8/24/2017	5/3/2018
5325	CARRIER-SENSING TECHNIQUES FOR LTE-BASED TRANSMISSIONS OVER UNLICENSED CARRIERS	15/558003	US-2018-0049241-A1	US	9/13/2017	2/15/2018
5326	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	15/559991	US-2018-0069675-A1	US	9/20/2017	3/8/2018
5327	TRANSMISSION DESIGNS FOR RADIO ACCESS TECHNOLOGIES	15/560472	US-2018-0063820-A1	US	9/21/2017	3/1/2018
5328	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	15/564859	US-2018-0091249-A1	US	10/6/2017	3/29/2018
5329	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	15/565436	US-2018-0132268-A1	US	10/10/2017	5/10/2018
5330	PDCP STATUS REPORTING FOR MULTI-RAT OFFLOADING	15/565458	US-2018-0124642-A1	US	10/10/2017	5/3/2018
5331	PHYSICAL BROADCAST CHANNEL DESIGN	15/565466	US-2018-0131491-A1	US	10/10/2017	5/10/2018
5332	METHODS AND DEVICES FOR CHANNEL ESTIMATION FOR MOBILE SYSTEMS OF INSUFFICIENT CYCLIC PREFIX LENGTH	15/565557	US-2018-0123837-A1	US	10/10/2017	5/3/2018
5333	CARRIER AGGREGATION ENHANCEMENT	15/565644	US-2018-0083684-A1	US	10/10/2017	3/22/2018
5334	MEASUREMENT METHOD IN CARRIER AGGREGATION AND ASYNCHRONOUS DUAL CONNECTIVITY	15/565674	US-2018-0083748-A1	US	10/10/2017	3/22/2018
5335	MEASUREMENT GAP CONFIGURATION IN DUAL CONNECTIVITY ENHANCEMENT	15/565726	US-2018-0077596-A1	US	10/11/2017	3/15/2018
5336	MEASUREMENT GAP ENHANCEMENT TO REDUCE MEASUREMENT DELAY	15/566139	US-2018-0098253-A1	US	10/12/2017	4/5/2018
5337	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	15/566190	US-2018-0115903-A1	US	10/12/2017	4/26/2018
5338	PAGING ENHANCEMENT FOR EXTENDED DRX IN CELLULAR SYSTEMS	15/566201	US-2018-0338281-A1	US	10/12/2017	11/22/2018
5339	CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK	15/566511	US-2018-0302868-A1	US	10/13/2017	10/18/2018
5340	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	15/566650	US-2018-0098370-A1	US	10/13/2017	4/5/2018
5341	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	15/567350	US-2018-0160461-A1	US	10/17/2017	6/7/2018
5342	ADAPTIVE VIDEO CONTENT FOR CELLULAR COMMUNICATION	15/569168	US-2018-0152499-A1	US	10/25/2017	5/31/2018

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5343	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	15/569505	US-2018-0302834-A1	US	10/26/2017	10/18/2018
5344	ADAPTIVE VIDEO STREAMING USING DYNAMIC RADIO ACCESS NETWORK INFORMATION	15/570826	US-2018-0139254-A1	US	10/31/2017	5/17/2018
5345	LOW OVERHEAD SYSTEM INFORMATION ACQUISITION FOR WIRELESS COMMUNICATION	15/571332	US-2018-0288683-A1	US	11/2/2017	10/4/2018
5346	LATENCY REDUCTION TECHNIQUES FOR RADIO ACCESS NETWORKS	15/571500	US-2018-0310324-A1	US	11/2/2017	10/25/2018
5347	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM	15/572844	US-2018-0160363-A1	US	11/9/2017	6/7/2018
5348	UPLINK RESOURCE COLLISION REDUCTION IN FD-MIMO	15/572994	US-2018-0145794-A1	US	11/9/2017	5/24/2018
5349	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	15/573314	US-2018-0110041-A1	US	11/10/2017	4/19/2018
5350	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	15/574681	US-2018-0139014-A1	US	11/16/2017	5/17/2018
5351	DYNAMIC PARTITION RESOURCE ALLOCATION IN 5G NETWORKS	15/574765	US-2018-0152269-A1	US	11/16/2017	5/31/2018
5352	USER EQUIPMENT AND CODEBOOK SEARCH METHOD FOR 4TX DUAL CODEBOOK (RAN1)	15/575226	US-2018-0167115-A1	US	11/17/2017	6/14/2018
5353	LOW LATENCY CONTENTION BASED SCHEDULING REQUEST	15/575320	US-2018-0152950-A1	US	11/17/2017	5/31/2018
5354	DISTRIBUTED LINK SCHEDULING TECHNIQUE FOR DEVICE TO DEVICE COMMUNICATION	15/575544	US-2018-0132190-A1	US	11/20/2017	5/10/2018
5355	SYSTEM AND A METHOD FOR DETERMINING A CORRECTION FOR AN OUTPUT VALUE OF A TIME-TO-DIGITAL CONVERTER WITHIN A PHASE-LOCKED LOOP	15/575830	US-2018-0131380-A1	US	11/21/2017	5/10/2018
5356	A RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	15/575867	US-2018-0159585-A1	US	11/21/2017	6/7/2018
5357	SECURE FIRMWARE UPGRADE FOR CELLULAR IOT	15/575906	US-2018-0150289-A1	US	11/21/2017	5/31/2018
5358	ENHANCED SUPPORT VEHICLE-TO-ANYTHING (V2X) COMMUNICATION	15/577292	US-2018-0152819-A1	US	11/27/2017	5/31/2018
5359	DIGITAL TIME CONVERTER SYSTEMS AND METHODS	15/583063	US-2018-0006658-A1	US		1/4/2018
5360	DEVICE AND METHOD FOR RECOVERING SERVICES FROM NETWORK REJECTIONS TO WIRELESS COMMUNICATION DEVICES	15/584103	US-2017-0353939-A1	US		12/7/2017
5361	APPARATUS AND METHOD FOR SINGLE-TONE DEVICE DISCOVERY IN WIRELESS COMMUNICATION NETWORKS	15/589255	US-2017-0373815-A1	US		12/28/2017
5362	TECHNIQUES FOR WIRELESS NETWORK DISCOVERY AND SELECTION SUPPORT	15/589912	US-2018-0063776-A1	US		3/1/2018

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5363	INTERFERENCE DETECTION DEVICE INTERFERENCE DETECTION APPARATUS INTERFERENCE DETECTION METHOD COMPUTER PROGRAM RECEIVER MOBILE TERMINAL AND BASE STATION	15/590073	US-2017-0359092- A1	US		12/14/2017
5364	DEBUGGING TRANSLATION BLOCK AND DEBUGGING ARCHITECTURE	15/591161	US-2018-0328986- A1	US		11/15/2018
5365	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	15/593347	US-2017-0359040- A1	US		12/14/2017
5366	CIRCUIT ARRANGEMENT FOR CLOCK SYNCHRONIZATION	15/600862	US-2017-0367060- A1	US		12/21/2017
5367	STORING A VALUE OF A COUNTER FOR A WIRELESS LOCAL AREA NETWORK	15/601786	US-2017-0257783- A1	US		9/7/2017
5368	COMMUNICATION TERMINAL AND METHOD FOR USING A SHARED RADIO COMMUNICATION COMPONENT	15/602184	US-2017-0374544- A1	US		12/28/2017
5369	TRANSCEIVER DEVICE AND A METHOD FOR GENERATING A COMPENSATION SIGNAL	15/606290		US		
5370	APPARATUS ADAPTED FOR MAINTAINING RECEIVING DATA QUALITY AND METHOD FOR RECEIVING DATA	15/607556	US-2018-0007113- A1	US		1/4/2018
5371	APPARATUS OF A USER EQUIPMENT ADAPTED FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION USED IN MOBILE COMMUNICATION AND METHOD FOR RECEIVING EMERGENCY NOTIFICATION INFORMATION	15/607709	US-2018-0007525- A1	US		1/4/2018
5372	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	15/608772	US-2018-0013737- A1	US		1/11/2018
5373	METHOD AND DEVICE FOR MITIGATING INTERFERENCE IN COLLOCATED TRANSCEIVERS	15/611021	US-2018-0007697- A1	US		1/4/2018
5374	DECODING DEVICE AND METHOD USING CONTEXT REDUNDANCY	15/611625	US-2018-0018243- A1	US		1/18/2018
5375	DELIVERY OF TARGETED MEDIA CONTENT	15/613785	US-2017-0272983- A1	US		9/21/2017
5376	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	15/614208	US-2017-0273095- A1	US		9/21/2017
5377	DEVICES AND METHODS FOR HARQ- ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	15/624324	US-2018-0034610- A1	US		2/1/2018
5378	AT COMMAND FOR SECURE ESM INFORMATION	15/628246	US-2017-0289802- A1	US		10/5/2017
5379	LOAD BALANCING SCHEMES FOR IDLE MODE USER EQUIPMENT	15/631947	US-2017-0289849- A1	US		10/5/2017
5380	PROCEDURES TO PROVISION AND ATTACH A CELLULAR INTERNET OF THINGS DEVICE TO A CLOUD SERVICE PROVIDER	15/632790	US-2017-0311115- A1	US		10/26/2017
5381	POLAR TRANSMITTER WITH JOINED MODULATOR	15/639444		US		

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5382	USER EQUIPMENT AND METHODS FOR MEASUREMENT OF REFERENCE SIGNAL RECEIVED QUALITY	15/639547	US-2017-0311215-A1	US		10/26/2017
5383	PROVISIONING OF APPLICATION CATEGORIES AT A USER EQUIPMENT DURING NETWORK CONGESTION	15/644327	US-2017-0311229-A1	US		10/26/2017
5384	DRX OPERATION FOR UL/DL RECONFIGURATION	15/659425	US-2017-0332271-A1	US		11/16/2017
5385	INTERACTIVE VIDEO CONFERENCING	15/668150	US-2017-0332042-A1	US		11/16/2017
5386	TECHNIQUES TO MANAGE RADIO FREQUENCY CHAINS	15/670545		US		
5387	SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION	15/670923	US-2017-0339567-A1	US		11/23/2017
5388	AUTOMATIC GAIN CONTROL GAIN ADJUSTMENT	15/671748	US-2017-0339649-A1	US		11/23/2017
5389	MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF APPARATUS AND METHOD	15/676790	US-2018-0063741-A1	US		3/1/2018
5390	CONTROL OF WLAN SELECTION POLICIES IN ROAMING SCENARIOS	15/682157		US		
5391	MTSI BASED UE CONFIGURABLE FOR VIDEO REGION-OF-INTEREST (ROI) SIGNALING	15/682168	US-2017-0374647-A1	US		12/28/2017
5392	SYSTEMS METHODS AND DEVICES FOR DEVICE-TO-DEVICE COMMUNICATION MODE SELECTION	15/682878	US-2017-0353848-A1	US		12/7/2017
5393	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS OR SUBSCRIPTIONS	15/688910	US-2018-0098238-A1	US		4/5/2018
5394	MULTICAST-BASED GROUP COMMUNICATIONS IN AD HOC ARRANGEMENTS OF WIRELESS DEVICES	15/691723	US-2017-0367072-A1	US		12/21/2017
5395	TELEPHONE CALL PROCEDURES FOR POWER EFFICIENT MOBILE TERMINATING PACKET SWITCHED SERVICES	15/692477	US-2019-0069161-A1	US		2/28/2019
5396	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	15/694617	US-2018-0013537-A1	US		1/11/2018
5397	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	15/697662	US-2018-0110064-A1	US		4/19/2018
5398	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	15/701090	US-2018-0027516-A1	US		1/25/2018
5399	SYSTEMS METHODS AND DEVICES FOR OPPORTUNISTIC NETWORKING	15/708560	US-2018-0006776-A1	US		1/4/2018
5400	INTERACTIVE VIDEO CONFERENCING	15/710589	US-2018-0013980-A1	US		1/11/2018
5401	ESTABLISHMENT OF CONNECTION TO THE INTERNET	15/711839	US-2018-0014177-A1	US		1/11/2018

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5402	SYSTEMS APPARATUSES AND METHODS FOR LIGHTWEIGHT OVER-THE-AIR SIGNALING MECHANISMS IN DATA COMMUNICATIONS	15/714408		US		
5403	SIGNALING FOR INTER-CELL D2D DISCOVERY IN AN LTE NETWORK	15/717540	US-2018-0020459-A1	US		1/18/2018
5404	METHODS AND DEVICES FOR SPUR CANCELLATION IN DIGITAL PHASE LOCKED LOOPS	15/722669		US		
5405	NETWORK ASSISTED DEVICE TO DEVICE DISCOVERY	15/722882	US-2018-0027401-A1	US		1/25/2018
5406	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	15/722889	US-2018-0027581-A1	US		1/25/2018
5407	APPARATUS SYSTEM AND METHOD OF PROVIDING OFFLOADABILITY INFORMATION TO A USER-EQUIPMENT (UE)	15/724282	US-2018-0027450-A1	US		1/25/2018
5408	PRESENCE SERVICE USING IMS BASED DASH SERVICE	15/725205	US-2018-0035450-A1	US		2/1/2018
5409	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	15/730287	US-2018-0035441-A1	US		2/1/2018
5410	EXTENDED PAGING DISCONTINUOUS RECEPTION (DRX) CYCLES IN WIRELESS COMMUNICATION NETWORKS	15/730313	US-2018-0098280-A1	US		4/5/2018
5411	MULTI-TRANSMISSION CAPABLE DATA TRANSMISSION SYSTEM AND METHOD OF OPERATING THE SAME	15/736416		US	12/14/2017	
5412	REFERENCE SIGNAL POWER MEASUREMENT FILTERING	15/736453	US-2019-0342812-A1	US	12/14/2017	11/7/2019
5413	METHODS AND DEVICES FOR PROVIDING A ROBUST DATA COMMUNICATION BETWEEN A CLIENT AND A SERVER	15/738060	US-2018-0234207-A1	US	12/19/2017	8/16/2018
5414	METHOD AND RELATED MOBILE DEVICE FOR FAST BLIND DECODING	15/738077	US-2018-0234112-A1	US	12/19/2017	8/16/2018
5415	METHOD AND DEVICE FOR DETERMINING CHANNEL STATE INFORMATION	15/738086	US-2018-0234155-A1	US	12/19/2017	8/16/2018
5416	METHOD FOR POWER SAVING AND POWER SAVING CIRCUIT FOR A MOBILE DEVICE	15/738449		US	12/20/2017	
5417	METHOD FOR MITIGATING INTERFERENCE AND INTERFERENCE MITIGATING RECEIVER	15/738468	US-2019-0319665-A1	US	12/20/2017	10/17/2019
5418	METHOD AND DEVICE FOR DETECTING A TRANSMISSION FROM AN INTERFERING RADIO CELL	15/738599	US-2018-0175959-A1	US	12/21/2017	6/21/2018
5419	A MOBILE COMMUNICATIONS DEVICE AND A METHOD FOR CONTROLLING A MOBILE COMMUNICATIONS DEVICE RECEIVER	15/738605	US-2018-0167884-A1	US	12/21/2017	6/14/2018
5420	COMMUNICATION DEVICE AND METHOD FOR STORING DATA	15/738617	US-2018-0183547-A1	US	12/21/2017	6/28/2018

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5421	POWER SAVE IN MACHINE TYPE COMMUNICATION DEVICE	15/738979	US-2019-0268845-A1	US	12/21/2017	8/29/2019
5422	TRANSMISSION TOGGLE UPLINK COMPENSATION	15/738993	US-2019-0334663-A1	US	12/21/2017	10/31/2019
5423	COMMUNICATION TERMINAL AND METHOD FOR HANDLING UPLOAD TRAFFIC CONGESTION	15/739177	US-2018-0176818-A1	US	12/22/2017	6/21/2018
5424	VIRTUAL MOBILE MANAGEMENT ENTITY MANAGEMENT	15/741285	US-2018-0206108-A1	US	1/1/2018	7/19/2018
5425	USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION USING DIRECTIONAL TRANSMISSION AND RECEPTION	15/741619	US-2018-0198504-A1	US	1/3/2018	7/12/2018
5426	UCI FOR CARRIER AGGREGATION	15/741911	US-2018-0205525-A1	US	1/4/2018	7/19/2018
5427	SYSTEMS METHODS AND DEVICES FOR SHARING A WIRELESS MEDIUM USING LISTEN BEFORE TALK	15/742388	US-2018-0206269-A1	US	1/5/2018	7/19/2018
5428	DYNAMIC SPECTRUM ACCESS WITH FLEXIBLE BANDWIDTH FOR LICENSED SHARED ACCESS SYSTEMS	15/742481	US-2018-0206214-A1	US	1/5/2018	7/19/2018
5429	ENHANCED SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING	15/743094	US-2019-0081751-A1	US	1/9/2018	3/14/2019
5430	LIGHTWEIGHT S-1 LITE PROTOCOL DESIGN FOR CELLULAR INTERNET OF THINGS	15/743168	US-2019-0098531-A1	US	1/9/2018	3/28/2019
5431	USER EQUIPMENT CAPABILITY REPORTING	15/743562	US-2018-0206113-A1	US	1/10/2018	7/19/2018
5432	CIOT ARCHITECTURE FOR EFFICIENT DATA TRANSMISSION	15/743574	US-2018-0206093-A1	US	1/10/2018	7/19/2018
5433	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCCH	15/743589	US-2018-0212736-A1	US	1/10/2018	7/26/2018
5434	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO	15/743800	US-2018-0205438-A1	US	1/11/2018	7/19/2018
5435	METHOD OF MEASUREMENT GAP ENHANCEMENT	15/743915	US-2018-0213425-A1	US	1/11/2018	7/26/2018
5436	BEAMFORMING DEVICE	15/745141	US-2018-0212653-A1	US	1/16/2018	7/26/2018
5437	METHODS FOR CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION	15/745409	US-2018-0212740-A1	US	1/16/2018	7/26/2018
5438	DISCOVERY REFERENCE SIGNAL TRANSMISSION FOR LTE IN UNLICENSED BAND	15/745424	US-2018-0213561-A1	US	1/16/2018	7/26/2018
5439	MACHINE TYPE COMMUNICATION RELAYING	15/745572	US-2018-0213379-A1	US	1/17/2018	7/26/2018
5440	LAYER 2 RELAY PROTOCOLS AND MOBILITY RELAY METHOD	15/745868	US-2018-0213577-A1	US	1/18/2018	7/26/2018
5441	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS	15/745890	US-2018-0227219-A1	US	1/18/2018	8/9/2018
5442	POWER OPTIMIZATION FOR CHANNEL STATE REPORTS IN A WIRELESS COMMUNICATION NETWORK	15/745999	US-2018-0213482-A1	US	1/19/2018	7/26/2018

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5443	RADIO RESOURCE CONTROL IN CELLULAR/WLAN AGGREGATION	15/746341	US-2018-0234869-A1	US	1/19/2018	8/16/2018
5444	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	15/746771	US-2018-0213468-A1	US	1/22/2018	7/26/2018
5445	APPARATUS SYSTEM AND METHOD OF COMMUNICATING BETWEEN A CELLULAR MANAGER AND A USER EQUIPMENT (UE) VIA A WLAN NODE	15/746865	US-2019-0124511-A1	US	1/23/2018	4/25/2019
5446	BEAMFORMING TRAINING REFERENCE SIGNAL DESIGN	15/746983	US-2019-0013848-A1	US	1/23/2018	1/10/2019
5447	TRANSMIT BEAMFORMING	15/747000	US-2018-0212659-A1	US	1/23/2018	7/26/2018
5448	APPARATUSES FOR DMRS DESIGN OR PROCESSING FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	15/747009	US-2018-0219709-A1	US	1/23/2018	8/2/2018
5449	MANAGING ASPECTS OF RECEIVE BEAMFORMING	15/747010	US-2018-0219594-A1	US	1/23/2018	8/2/2018
5450	INTER-BEAM MOBILITY CONTROL IN MIMO COMMUNICATION SYSTEMS	15/747027	US-2019-0013857-A1	US	1/23/2018	1/10/2019
5451	INDICATION OF TDD UPLINK AND DOWNLINK CONFIGURATIONS	15/747270	US-2018-0220407-A1	US	1/24/2018	8/2/2018
5452	USER EQUIPMENT (UE) AND METHODS FOR DYNAMIC MILLIMETER WAVE PENCIL CELL COMMUNICATION	15/747273	US-2018-0220308-A1	US	1/25/2018	8/2/2018
5453	NETWORK DISCOVERY AND BEAM ACQUISITION IN 5G RAT BEAM CELL OPERATION	15/747409	US-2018-0241458-A1	US	1/24/2018	8/23/2018
5454	RECEIVER AND A METHOD FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	15/747771	US-2018-0219573-A1	US	1/26/2018	8/2/2018
5455	PERFORMING MISSION CRITICAL COMMUNICATIONS AT A USER EQUIPMENT (UE)	15/748157	US-2018-0227958-A1	US	1/26/2018	8/9/2018
5456	METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS	15/749307	US-2018-0227148-A1	US	1/31/2018	8/9/2018
5457	CONFIGURATION OF MEASUREMENT SUBFRAMES FOR A USER EQUIPMENT (UE)	15/749487	US-2018-0220386-A1	US	1/31/2018	8/2/2018
5458	SECURE DIRECT DISCOVERY AMONG USER EQUIPMENT	15/749704	US-2018-0234827-A1	US	2/1/2018	8/16/2018
5459	DUAL CONNECTIVITY FOR RELIABILITY	15/749717	US-2018-0235022-A1	US	2/1/2018	8/16/2018
5460	RADIO NETWORK ACCESS OF WEARABLE DEVICES	15/749728	US-2018-0213582-A1	US	2/1/2018	7/26/2018
5461	DETERMINATION OF NUMBER OF PHYSICAL UPLINK CONTROL CHANNEL REPETITIONS FOR MACHINE TYPE COMMUNICATIONS	15/749757	US-2019-0182824-A1	US	2/1/2018	6/13/2019

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5462	A METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	15/750257	US-2018-0262384-A1	US	2/5/2018	9/13/2018
5463	IMS EMERGENCY CALL ROUTING TECHNIQUES	15/750825	US-2018-0227419-A1	US	2/6/2018	8/9/2018
5464	ENERGY DETECTION THRESHOLD ADAPTATION FOR LICENSED ASSISTED ACCESS OF LTE IN UNLICENSED BAND	15/751127	US-2018-0234886-A1	US	2/7/2018	8/16/2018
5465	APPARATUS AND A METHOD FOR PREDICTING A FUTURE STATE OF AN ELECTRONIC COMPONENT	15/751208	US-2018-0231601-A1	US	2/8/2018	8/16/2018
5466	HARQ FEEDBACK CONFIGURATION TECHNIQUES FOR BROADBAND WIRELESS COMMUNICATION NETWORKS	15/751451		US	2/8/2018	
5467	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	15/751676	US-2018-0235013-A1	US	2/9/2018	8/16/2018
5468	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	15/751838	US-2018-0241486-A1	US	2/9/2018	8/23/2018
5469	SYSTEM INFORMATION CHANGE NOTIFICATION TECHNIQUES FOR WIRELESS COMMUNICATIONS NETWORKS	15/751843	US-2018-0270738-A1	US	2/9/2018	9/20/2018
5470	METHOD APPARATUS AND SYSTEM FOR REPORTING BEAM REFERENCE SIGNAL RECEIVING POWER	15/752553	US-2019-0028167-A1	US	2/13/2018	1/24/2019
5471	REFERENCE SIGNAL FOR RECEIVE BEAM REFINEMENT IN CELLULAR SYSTEMS	15/752764	US-2019-0007116-A1	US	2/14/2018	1/3/2019
5472	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	15/753551	US-2018-0262383-A1	US	2/20/2018	9/13/2018
5473	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNELS (BPDCCHS) FOR NARROW BEAM BASED WIRELESS COMMUNICATION	15/753953	US-2018-0254853-A1	US	2/20/2018	9/6/2018
5474	METHODS FOR RADIO COMMUNICATION AND COMMUNICATION DEVICES	15/753996	US-2018-0248610-A1	US	2/21/2018	8/30/2018
5475	AN APPARATUS AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	15/754043	US-2018-0248740-A1	US	2/21/2018	8/30/2018
5476	SUPPORTING SEMI-PERSISTENT SCHEDULING FOR VARIED TRANSMISSION TIME INTERVALS	15/754476	US-2018-0242389-A1	US	2/22/2018	8/23/2018
5477	RADIO RECEIVER AND METHOD FOR DETECTING A LAYER OF A MULTI-LAYERED SIGNAL	15/755352	US-2018-0248719-A1	US	2/26/2018	8/30/2018
5478	APPARATUS AND METHOD FOR REPORTING SYSTEM FRAME NUMBER (SFN) AND SUBFRAME OFFSET IN DUAL CONNECTIVITY (DC) ENHANCEMENT	15/755529	US-2018-0249463-A1	US	2/26/2018	8/30/2018

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5479	WIRELESS PERSONAL AREA NETWORK UNDERLYING CELLULAR NETWORKS	15/755530	US-2018-0255611-A1	US	2/27/2018	9/6/2018
5480	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	15/756210	US-2018-0359762-A1	US	2/28/2018	12/13/2018
5481	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	15/756516	US-2018-0262975-A1	US	2/28/2018	9/13/2018
5482	RRM REQUIREMENT FOR D2D INTER-CARRIER DISCOVERY GAP	15/756943	US-2018-0279109-A1	US	3/1/2018	9/27/2018
5483	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	15/757375	US-2018-0242340-A1	US	3/5/2018	8/23/2018
5484	METHOD FOR PERFORMING MOBILE COMMUNICATIONS MOBILE TERMINAL DEVICE AND MOBILE BASEBAND PROCESSING CIRCUIT	15/757378	US-2019-0029001-A1	US	3/5/2018	1/24/2019
5485	ENHANCED PAGING MECHANISM FOR CELLULAR INTERNET OF THINGS	15/758246	US-2018-0263013-A1	US	3/7/2018	9/13/2018
5486	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEMS	15/758305	US-2018-0269945-A1	US	3/7/2018	9/20/2018
5487	CIRCUIT ARRANGEMENT MOBILE DEVICE AND METHOD FOR AMPLIFYING A SIGNAL	15/758736	US-2018-0302052-A1	US	3/9/2018	10/18/2018
5488	COMMUNICATION TERMINAL AND METHOD FOR COMMUNICATING DATA	15/758740	US-2019-0037386-A1	US	3/9/2018	1/31/2019
5489	METHODS OF PERFORMING COMMUNICATIONS MOBILE TERMINAL DEVICES AND BASEBAND MODEMS	15/758746	US-2019-0036738-A1	US	3/9/2018	1/31/2019
5490	FRAME STRUCTURE FOR UPLINK SCHEDULING	15/758933	US-2019-0045541-A1	US	3/9/2018	2/7/2019
5491	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	15/759034		US	3/9/2018	
5492	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	15/759070	US-2018-0309495-A1	US	3/9/2018	10/25/2018
5493	TIME GRID WITH TIME DIVISION DUPLEX SWITCHING INTERVALS	15/759745	US-2019-0052354-A1	US	3/13/2018	2/14/2019
5494	CONTENTION WINDOW SIZE ADAPTATION	15/760010	US-2018-0254858-A1	US	3/14/2018	9/6/2018
5495	DEVICE AND METHOD FOR MITIGATING LOWPASS FILTER GROUP DELAY	15/760450	US-2018-0262369-A1	US	3/15/2018	9/13/2018
5496	RECEIVER WITH TUNABLE RECEIVING CHAIN	15/760859		US	3/16/2018	
5497	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	15/760975	US-2018-0263021-A1	US	3/16/2018	9/13/2018
5498	SAS INTERFERENCE MITIGATION OPTIONS	15/761016	US-2018-0279316-A1	US	3/16/2018	9/27/2018
5499	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	15/761390	US-2018-0279388-A1	US	3/19/2018	9/27/2018
5500	SCHEDULING UPLINK TRANSMISSIONS FOR A USER EQUIPMENT (UE)	15/761397	US-2018-0270860-A1	US	3/19/2018	9/20/2018
5501	ENHANCED SELF-CONTAINED TIME-DIVISION DUPLEX SUBFRAME	15/762534		US	3/22/2018	

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5502	COMMUNICATION TERMINAL AND METHOD FOR TRANSMITTING A SIGNALING MESSAGE	15/762612	US-2018-0288824-A1	US	3/23/2018	10/4/2018
5503	ENHANCED RESOURCE MAPPING SCHEME	15/764294	US-2019-0068352-A1	US	3/28/2018	2/28/2019
5504	DISTINGUISHING SUBFRAMES IN A DOWNLINK TRANSMISSION BURST	15/764301	US-2018-0288715-A1	US	3/28/2018	10/4/2018
5505	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	15/764469	US-2018-0262410-A1	US	3/29/2018	9/13/2018
5506	FLEXIBLE UNIVERSAL EXTENDED FRAME STRUCTURE	15/765240	US-2018-0254851-A1	US	3/30/2018	9/6/2018
5507	USER EQUIPMENT (UE) AND METHODS FOR REGISTRATION OF CIRCUIT-SWITCHED (CS) SERVICES IN MULTI-MODE OPERATION	15/765329	US-2018-0310190-A1	US	4/2/2018	10/25/2018
5508	ARCHITECTURE FOR WIRELESS NETWORK ACCESS	15/765540	US-2018-0310230-A1	US	4/3/2018	10/25/2018
5509	NETWORK INITIATED PACKET DATA NETWORK CONNECTION	15/765542	US-2018-0310350-A1	US	4/3/2018	10/25/2018
5510	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS (LAA)	15/765764	US-2018-0295649-A1	US	4/4/2018	10/11/2018
5511	MULTIPLEXING TRANSMISSION TIME INTERVALS (TTIS) WITH PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH) PUNCTURING DETECTION	15/765778	US-2018-0288745-A1	US	4/4/2018	10/4/2018
5512	BEARER-LESS ARCHITECTURE FOR A WIRELESS CELLULAR NETWORK	15/765998	US-2018-0288784-A1	US	4/4/2018	10/4/2018
5513	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	15/766052	US-2018-0288657-A1	US	4/5/2018	10/4/2018
5514	USER PLANE RESOURCE ALLOCATION	15/766331	US-2018-0295659-A1	US	4/5/2018	10/11/2018
5515	DYNAMIC HARQ CONFIGURATION AND BITMAP BASED ACK/NACK	15/766466	US-2018-0294924-A1	US	4/6/2018	10/11/2018
5516	CONFIGURING DOWNLINK LISTEN-BEFORE-TALK PRIORITY CLASS FOR UPLINK GRANT TRANSMISSION IN LICENSED ASSISTED ACCESS	15/766556	US-2018-0288805-A1	US	4/6/2018	10/4/2018
5517	DYNAMICALLY BEAMFORMED CONTROL CHANNEL FOR BEAMFORMED CELLS	15/766561	US-2018-0294859-A1	US	4/6/2018	10/11/2018
5518	SYNCHRONIZATION SIGNAL DESIGN FOR NARROWBAND INTERNET OF THINGS COMMUNICATIONS	15/766772	US-2018-0295007-A1	US	4/6/2018	10/11/2018
5519	SYSTEM AND METHOD FOR BEAMED REFERENCE SIGNAL WITH HYBRID BEAM	15/767113	US-2019-0074890-A1	US	4/9/2018	3/7/2019
5520	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENT FOR NARROW BAND MACHINE-TYPE COMMUNICATION	15/767123	US-2019-0074918-A1	US	4/9/2018	3/7/2019

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5521	RESTORING VIRTUAL NETWORK FUNCTION (VNF) PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	15/767203	US-2019-0073269-A1	US	4/10/2018	3/7/2019
5522	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	15/767219	US-2019-0075596-A1	US	4/10/2018	3/7/2019
5523	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	15/767562	US-2018-0302857-A1	US	4/11/2018	10/18/2018
5524	PARTIAL SUBFRAME TRANSMISSION IN LICENSED ASSISTED ACCESS	15/767812	US-2018-0302926-A1	US	4/12/2018	10/18/2018
5525	CHANNEL STATE INFORMATION (CSI) MEASUREMENTS AND CSI REPORTING IN LICENSED ASSISTED ACCESS (LAA)	15/767861	US-2018-0310193-A1	US	4/12/2018	10/25/2018
5526	SHORT TRANSMISSION TIME INTERVAL (TTI)	15/767993	US-2018-0302900-A1	US	4/12/2018	10/18/2018
5527	DISCOVERY REFERENCE SIGNALING FOR DYNAMICALLY-TIMED TRANSMISSIONS	15/770853	US-2018-0331774-A1	US	4/25/2018	11/15/2018
5528	DEVICES AND METHODS FOR ROBUST MEASUREMENT AND DATA RECEIVING	15/770948	US-2018-0309526-A1	US	4/25/2018	10/25/2018
5529	PERSONAL AREA NETWORK COMMUNICATION FOR WEARABLE DEVICES	15/771192	US-2018-0317070-A1	US	4/26/2018	11/1/2018
5530	SYNCHRONIZATION SIGNALS FOR LICENSE ASSISTED ACCESS	15/771868	US-2018-0316453-A1	US	4/27/2018	11/1/2018
5531	MECHANISMS FOR SINGLE FREQUENCY NETWORKS IN HIGH-SPEED MOBILE SCENARIOS	15/772473	US-2018-0316409-A1	US	4/30/2018	11/1/2018
5532	A Successive Joint Channel Estimation based Interference Cancellation Scheme against Colliding Interferences	15/775161	US-2018-0375689-A1	US	5/10/2018	12/27/2018
5533	MULTI-SUBFRAME UPLINK SCHEDULING IN UNLICENSED SPECTRUM	15/775745	US-2018-0352564-A1	US	5/11/2018	12/6/2018
5534	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	15/775845	US-2018-0331878-A1	US	5/14/2018	11/15/2018
5535	APPARATUS FOR REDUCING A MAGNETIC COUPLING BETWEEN A FIRST ELECTRONIC CIRCUIT AND A SECOND ELECTRONIC CIRCUIT	15/776083	US-2018-0331769-A1	US	5/15/2018	11/15/2018
5536	COMMUNICATION TERMINAL AND METHOD FOR CHANNEL ESTIMATION	15/776098	US-2019-0074999-A1	US	5/15/2018	3/7/2019
5537	DEVICE AND METHOD FOR DEVICE TO DEVICE COMMUNICATION	15/776800	US-2018-0332491-A1	US	5/17/2018	11/15/2018
5538	RADIO COMMUNICATION DEVICE AND METHOD OF MOBILE RADIO CELL MEASUREMENT REPORTING	15/776801	US-2018-0332492-A1	US	5/17/2018	11/15/2018
5539	COMMUNICATION TERMINAL AND METHOD FOR PERFORMING A CELL SELECTION OR RESELECTION	15/776807	US-2018-0332521-A1	US	5/17/2018	11/15/2018
5540	EQUALIZER AND METHOD FOR EQUALIZING A RECEIVE SIGNAL	15/777537	US-2018-0337804-A1	US	5/18/2018	11/22/2018

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5541	NB-IOT SYNCHRONIZATION SIGNALS WITH OFFSET INFORMATION	15/777641	US-2018-0376405-A1	US	5/18/2018	12/27/2018
5542	DETERMINATION OF AN ADVANCED PHYSICAL UPLINK CHANNEL RESOURCE	15/781462		US	6/4/2018	
5543	APPARATUSES SYSTEMS AND METHODS FOR MEASURING QUALITY OF CELL DISCOVERY SIGNAL	15/789504	US-2018-0049114-A1	US		2/15/2018
5544	DEMODULATION REFERENCE SIGNAL (DMRS) SEQUENCE DESIGN FOR DEVICE-TO-DEVICE (D2D) DISCOVERY	15/791308	US-2018-0109938-A1	US		4/19/2018
5545	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING	15/804454		US		
5546	METHOD APPARATUS AND SYSTEM FOR MANAGING BEARERS IN A WIRELESS COMMUNICATION SYSTEM	15/804786	US-2018-0063861-A1	US		3/1/2018
5547	SYSTEMS METHODS AND DEVICES FOR TRAFFIC OFFLOADING	15/804870	US-2018-0132127-A1	US		5/10/2018
5548	DASH-AWARE NETWORK APPLICATION FUNCTION (D-NAF)	15/808748	US-2018-0069856-A1	US		3/8/2018
5549	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	15/810832	US-2018-0098305-A1	US		4/5/2018
5550	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL	15/811851	US-2018-0167056-A1	US	11/14/2017	6/14/2018
5551	A CIRCUIT AND A METHOD FOR GENERATING A RADIO FREQUENCY SIGNAL	15/811860	US-2018-0234060-A1	US	11/14/2017	8/16/2018
5552	PREVENTING A MOBILE DEVICE FROM REPEATING A REQUEST TOWARD A MOBILE NETWORK	15/816472	US-2018-0092570-A1	US		4/5/2018
5553	SYSTEMS DEVICES AND METHODS FOR LONG TERM EVOLUTION AND WIRELESS LOCAL AREA INTERWORKING	15/820280	US-2018-0077622-A1	US		3/15/2018
5554	RADIO COMMUNICATION DEVICES AND METHODS FOR PERFORMING WIRELESS PEER-TO-PEER DISCOVERY	15/821870		US		
5555	METHODS IN SHORT RANGE RADIO COMMUNICATION MASTER SUBSYSTEMS MOBILE DEVICES AND MULTI-MODE RADIO COMMUNICATION SYSTEMS	15/821872		US		
5556	SYSTEMS DEVICES AND METHODS FOR INTERWORKING BETWEEN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM (UMTS) NETWORK AND A WIRELESS LOCAL AREA NETWORK (WLAN)	15/822368	US-2018-0077623-A1	US		3/15/2018
5557	USER EQUIPMENT AND METHOD FOR PACKET BASED DEVICE-TO-DEVICE (D2D) DISCOVERY IN AN LTE NETWORK	15/823753	US-2018-0084398-A1	US		3/22/2018

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5558	ENHANCED NODE B UE AND METHOD FOR SELECTING CELL DISCOVERY SIGNALS IN LTE NETWORKS	15/824121	US-2018-0084488-A1	US		3/22/2018
5559	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	15/825142		US		
5560	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	15/827221	US-2018-0091996-A1	US		3/29/2018
5561	RADIO-FREQUENCY TRANSMITTER AND AMPLIFIER	15/830519		US		
5562	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	15/835173	US-2018-0227785-A1	US		8/9/2018
5563	COVERAGE EXTENSION LEVEL FOR COVERAGE LIMITED DEVICE	15/842528	US-2018-0184306-A1	US		6/28/2018
5564	POWER SAVING TECHNIQUE FOR DIGITAL TO TIME CONVERTERS	15/845385		US		
5565	USER EQUIPMENT AND PROTOCOL AND METHODS FOR DEVICE-TO-DEVICE COMMUNICATION	15/858429	US-2018-0192309-A1	US		7/5/2018
5566	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS	15/862181	US-2018-0199352-A1	US		7/12/2018
5567	APPARATUS SYSTEM AND METHOD OF ACCESS NETWORK DISCOVERY AND SELECTION FUNCTION (ANDSF) FOR TRAFFIC OFFLOADING	15/864352	US-2018-0132154-A1	US		5/10/2018
5568	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE	15/864824	US-2018-0317094-A1	US		11/1/2018
5569	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	15/867069	US-2018-0132233-A1	US		5/10/2018
5570	TECHNIQUES FOR COMMUNICATION BETWEEN SERVICE CAPABILITY SERVER AND INTERWORKING FUNCTION FOR DEVICE TRIGGER RECALL/REPLACE	15/872863	US-2018-0205796-A1	US		7/19/2018
5571	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	15/881082	US-2018-0152968-A1	US		5/31/2018
5572	AT COMMAND FOR SECURE ESM INFORMATION	15/884549	US-2018-0152844-A1	US		5/31/2018
5573	TECHNIQUES FOR MONITORING VIRTUALIZED NETWORK FUNCTIONS OR NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE	15/887915	US-2018-0183692-A1	US		6/28/2018
5574	COMMUNICATION OF SECURITY KEY INFORMATION	15/893212	US-2018-0167963-A1	US		6/14/2018
5575	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	15/902845	US-2018-0183562-A1	US		6/28/2018
5576	ENHANCED NODE B AND METHOD FOR RRC CONNECTION ESTABLISHMENT FOR SMALL DATA TRANSFERS	15/905346		US		
5577	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	15/914813		US		

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5578	MULTI-HARMONIC MATCHING NETWORKS	15/926360	US-2018-0241368-A1	US		8/23/2018
5579	SYSTEM AND METHOD OF HANDLING UPLINK TRANSMISSION COLLISION FOR ENHANCED COVERAGE MODE UES	15/933646		US		
5580	USER EQUIPMENT AND METHODS FOR OPERATION IN COVERAGE ENHANCEMENT MODE WITH PHYSICAL RANDOM ACCESS CHANNEL PREAMBLE	15/935402	US-2018-0213418-A1	US		7/26/2018
5581	CIRCUIT AND A METHOD FOR OPERATING A CIRCUIT	15/937906	US-2019-0305732-A1	US		10/3/2019
5582	METHODS AND DEVICES FOR RADIO RESOURCE ALLOCATION	15/937943	US-2019-0305903-A1	US		10/3/2019
5583	SYSTEMS AND METHODS FOR ACCESS NETWORK SELECTION AND TRAFFIC ROUTING	15/941467	US-2018-0227738-A1	US		8/9/2018
5584	RESOURCE ALLOCATION FOR D2D DISCOVERY IN AN LTE NETWORK	15/942974	US-2018-0227932-A1	US		8/9/2018
5585	UE-BASED D2D DISCOVERY	15/947323	US-2018-0234829-A1	US		8/16/2018
5586	APPARATUS AND METHOD FOR DETERMINING A DISTANCE TO AN OBJECT	15/951202	US-2018-0341000-A1	US		11/29/2018
5587	TRANSMISSION OF UPLINK CONTROL INFORMATION IN WIRELESS SYSTEMS	15/963482	US-2018-0249458-A1	US		8/30/2018
5588	COORDINATION OF CAPACITY AND COVERAGE OPTIMIZATION OF SELF-ORGANIZING NETWORKS	15/977780	US-2018-0263016-A1	US		9/13/2018
5589	ADAPTIVE PAGING TECHNIQUES FOR EXTENDED COVERAGE-CAPABLE DEVICES	15/979013	US-2018-0263015-A1	US		9/13/2018
5590	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	15/981135	US-2018-0359625-A1	US		12/13/2018
5591	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	15/994154	US-2018-0317237-A1	US		11/1/2018
5592	RADIO LINK FAILURE HANDLING FOR DUAL CONNECTIVITY	16/003019	US-2018-0288778-A1	US		10/4/2018
5593	CODEBOOK FOR FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	16/031438	US-2018-0351607-A1	US		12/6/2018
5594	DYNAMICAL TIME DIVISION DUPLEX UPLINK AND DOWNLINK CONFIGURATION IN A COMMUNICATIONS NETWORK	16/034177	US-2018-0338313-A1	US		11/22/2018
5595	TECHNIQUES FOR DATA COMPRESSION	16/037241	US-2019-0238163-A1	US		8/1/2019
5596	PUCCH RESOURCE COMPRESSION FOR EPDCCH IN TDD MODE	16/037752	US-2018-0343648-A1	US		11/29/2018

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5597	SCRAMBLING SEQUENCE INITIAL SEED CONFIGURATION FOR REFERENCE SIGNALS DATA AND CONTROL CHANNEL FOR NEW RADIO	16/055964	US-2019-0044669-A1	US		2/7/2019
5598	HANDOVER FOR UNMANNED AERIAL VEHICLES	16/057079	US-2019-0045406-A1	US		2/7/2019
5599	TRANSMITTER AND RECEIVER FOR MASTER INFORMATION BLOCK OVER PHYSICAL BROADCAST CHANNEL	16/060401	US-2019-0007896-A1	US	6/7/2018	1/3/2019
5600	TECHNIQUES FOR INSTANTIATION AND TERMINATION OF VIRTUALIZED NETWORK FUNCTIONS	16/060910	US-2018-0367372-A1	US	6/8/2018	12/20/2018
5601	PERFORMANCE MONITORING TECHNIQUES FOR VIRTUALIZED RESOURCES	16/060912	US-2018-0367373-A1	US	6/8/2018	12/20/2018
5602	DOWNLINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK FOR NARROWBAND INTERNET OF THINGS DEVICES	16/060916	US-2018-0367278-A1	US	6/8/2018	12/20/2018
5603	NETWORK SLICE SELECTION IN NETWORK SYSTEMS	16/063048	US-2018-0368060-A1	US	6/15/2018	12/20/2018
5604	MULTIBAND DATA DELIVERY DEVICE AND METHOD	16/064056	US-2018-0376374-A1	US	6/20/2018	12/27/2018
5605	SYSTEM AND METHOD FOR SYSTEM INFORMATION TRANSMISSION IN STAND-ALONE MMWAVE SYSTEMS	16/065068	US-2019-0013842-A1	US	6/21/2018	1/10/2019
5606	DETERMINATION CIRCUIT AND APPARATUS MOBILE TRANSCEIVER COMMUNICATION DEVICE METHOD FOR DETERMINING COMPUTER PROGRAM AND STORAGE TO DETERMINE A SPATIAL TRANSMISSION MODE	16/066343	US-2019-0115657-A1	US	6/27/2018	4/18/2019
5607	RATE MATCHING USING LOW-DENSITY PARITY-CHECK CODES	16/066655	US-2019-0013901-A1	US	6/27/2018	1/10/2019
5608	PHYSICAL LAYER PROTOCOL AND SUBFRAME STRUCTURE FOR WEARABLE USER EQUIPMENT DEVICES	16/067669	US-2019-0021053-A1	US	7/2/2018	1/17/2019
5609	DYNAMIC RESOURCE ALLOCATIONS AND TRANSMISSION SCHEMES FOR XPUCCH (5G PUCCH)	16/067677	US-2019-0013908-A1	US	7/2/2018	1/10/2019
5610	SYSTEMS METHODS AND DEVICES FOR UPLINK BEARER SPLIT USING WIRELESS LOCAL AREA NETWORK AGGREGATION	16/067685	US-2019-0021026-A1	US	7/2/2018	1/17/2019
5611	SYSTEM AND METHOD FOR CONTROL CHANNEL BEAM ASSUMPTION	16/067806	US-2019-0028176-A1	US	7/2/2018	1/24/2019
5612	METHOD APPARATUS AND SYSTEM FOR BEAM ACQUISITION IN A WIRELESS SYSTEM	16/068110	US-2019-0028173-A1	US	7/4/2018	1/24/2019
5613	SPREADING OPTIONS FOR NON-ORTHOGONAL MULTIPLE ACCESS	16/068754	US-2019-0029031-A1	US	7/9/2018	1/24/2019
5614	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	16/068882	US-2019-0029005-A1	US	7/9/2018	1/24/2019

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5615	5G FDD LOW LATENCY TRANSMISSION SUBFRAME STRUCTURE SYSTEM AND METHOD OF USE	16/069819	US-2019-0037640-A1	US	7/12/2018	1/31/2019
5616	CROSS TRANSMISSION OPPORTUNITY (TXOP) SCHEDULING	16/069853	US-2019-0021105-A1	US	7/12/2018	1/17/2019
5617	CONTROL SIGNALING FOR FIFTH GENERATION CHANNEL STATE INFORMATION REFERENCE SIGNALS (XCSI-RS)	16/070916	US-2019-0029071-A1	US	7/18/2018	1/24/2019
5618	METHODS AND DEVICES FOR MANAGING PACKET DATA NETWORK CONNECTIONS	16/071077		US	7/19/2018	
5619	SCHEDULING REQUEST FOR STANDALONE DEPLOYMENT OF A SYSTEM USING BEAMFORMING	16/071439		US	7/19/2018	
5620	PHYSICAL UPLINK CONTROL CHANNEL PROCEDURES	16/071839		US	7/20/2018	
5621	INTERLACES ALLOCATION AND INDICATION	16/072132	US-2019-0068347-A1	US	7/23/2018	2/28/2019
5622	CHANNEL CODING AND INTERLEAVING FOR CONTROL AND USER DATA IN THE PHYSICAL UPLINK SHARED CHANNEL	16/072981	US-2019-0036586-A1	US	7/26/2018	1/31/2019
5623	CSI FEEDBACK FOR OPEN LOOP FD-MIMO TRANSMISSION	16/073298	US-2019-0036574-A1	US	7/26/2018	1/31/2019
5624	DUAL BEAM OPERATION FOR MOBILITY	16/073303	US-2019-0052317-A1	US	7/26/2018	2/14/2019
5625	CELLULAR IOT CONTROL AND USER PLANE SWITCHING	16/073997	US-2019-0045561-A1	US	7/30/2018	2/7/2019
5626	SYSTEM AND METHOD FOR BEAM INFORMATION AND CSI REPORT	16/076666	US-2019-0053220-A1	US	8/8/2018	2/14/2019
5627	APPARATUSES AND METHODS FOR COMPENSATING PHASE FLUCTUATIONS	16/076710	US-2019-0052452-A1	US	8/9/2018	2/14/2019
5628	SYSTEM AND METHOD FOR CHANNEL QUALITY REPORTING	16/077018	US-2019-0036584-A1	US	8/9/2018	1/31/2019
5629	SYSTEMS METHODS AND DEVICES FOR REDUCED HANDOVER DATA INTERRUPTION	16/077455	US-2019-0075498-A1	US	8/11/2018	3/7/2019
5630	Transceiver transmitter receiver and method for determining a minimum supply voltage for receivers and transmitters	16/078667	US-2019-0090196-A1	US	8/22/2018	3/21/2019
5631	RADIO LINK FAILURE HANDLING IN HIGH-FREQUENCY BAND NETWORKS	16/078792	US-2019-0053315-A1	US	8/22/2018	2/14/2019
5632	USER EQUIPMENT (UE) AND METHOD OF SIDELINK DATA COMMUNICATION IN FIFTH GENERATION (5G) NEW RADIO (NR) THINGS NETWORKS	16/078999	US-2019-0090220-A1	US	8/22/2018	3/21/2019
5633	DEVICE AND METHOD OF USING BRRS CONFIGURATION	16/079034	US-2019-0044601-A1	US	8/22/2018	2/7/2019
5634	DMRS FOR 5G THINGS COMMUNICATION SYSTEM	16/079470	US-2019-0052442-A1	US	8/23/2018	2/14/2019
5635	RANDOM-ACCESS AND SCHEDULING-REQUEST IN NEW RADIO-THINGS SIDELINK	16/079617	US-2019-0058551-A1	US	8/24/2018	2/21/2019

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5636	DISCOVERY AND NETWORK ACCESS PROCEDURES FOR 5G THINGS COMMUNICATION SYSTEM	16/079756	US-2019-0357123-A1	US	8/24/2018	11/21/2019
5637	DEVICE AND METHOD FOR SYNCHRONOUS BEAM SWITCHING	16/079805	US-2019-0052331-A1	US	8/24/2018	2/14/2019
5638	ENABLING A SECONDARY CELL IN A MASSIVE MIMO SYSTEM	16/080580	US-2019-0028150-A1	US	8/28/2018	1/24/2019
5639	COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING DATA	16/080697	US-2019-0089572-A1	US	8/29/2018	3/21/2019
5640	CSI (CHANNEL STATE INFORMATION) ENHANCEMENTS FOR FD (FULL DIMENSION)-MIMO (MULTIPLE INPUT MULTIPLE OUTPUT)	16/081172	US-2019-0068266-A1	US	8/30/2018	2/28/2019
5641	BEAMFORMING ARCHITECTURE FOR MULTI-BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT (MIMO)	16/081470	US-2019-0260457-A1	US	8/31/2018	8/22/2019
5642	BEAM MANAGEMENT FOR DUAL TRANSMISSION POINT HYBRID BEAMFORMING SYSTEMS IN 5G	16/081787	US-2019-0089435-A1	US	8/31/2018	3/21/2019
5643	A MULTIPLE BEAM MULTIPLE-INPUT-MULTIPLE-OUTPUT SYSTEM	16/082365	US-2019-0081672-A1	US	9/5/2018	3/14/2019
5644	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNEL	16/083141		US	9/7/2018	
5645	FRAME STRUCTURES FOR BEAM SWITCHING AND REFINEMENT IN CELLULAR SYSTEMS	16/084505	US-2019-0089446-A1	US	9/12/2018	3/21/2019
5646	FREQUENCY TRACKING FOR BEAMFORMED SYSTEMS	16/085124		US	9/14/2018	
5647	LOW LATENCY PHYSICAL RANDOM ACCESS CHANNEL DESIGN	16/085532		US	9/14/2018	
5648	SCHEDULING REQUEST TRANSMISSIONS IN THE UNLICENSED SPECTRUM	16/092651	US-2019-0132860-A1	US	10/10/2018	5/2/2019
5649	SYSTEMS METHODS AND DEVICES FOR NON-ADAPTIVE RETRANSMISSION USING SEMI-PERSISTENT SCHEDULING RESOURCES	16/093093	US-2019-0215907-A1	US	10/11/2018	7/11/2019
5650	INCREASE OF SPECTRAL CAPACITY OF EMBMS-CELL WHEN DEPLOYED AS A SUPPLEMENTARY DOWNLINK CARRIER	16/093242	US-2019-0090103-A1	US	10/12/2018	3/21/2019
5651	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	16/093912	US-2019-0110241-A1	US	10/15/2018	4/11/2019
5652	METHODS AND TRANSCEIVERS FOR REDUCING A DISTORTION COMPONENT WITHIN A BASEBAND RECEIVE SIGNAL	16/095761		US	10/23/2018	
5653	PRE-DISTORTION CIRCUIT APPARATUS METHOD AND COMPUTERPROGRAM FOR PRE-DISTORTING TRANSMITTER RADIOTRANSCEIVER MOBILE TRANSCEIVER BASE STATIONTRANSCEIVER COMMUNICATION DEVICE STORAGE	16/095977		US	10/24/2018	

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5654	EXTENDED PHYSICAL BROADCAST CHANNEL DESIGN FOR 5G STANDALONE SYSTEM	16/099629	US-2019-0149276-A1	US	11/7/2018	5/16/2019
5655	SPLIT PRECODING AND SPLIT PREFILTERING BETWEEN A CENTRAL UNIT AND A DISTRIBUTED UNIT OF A GENERATION NODE-B (GNB)	16/100773	US-2019-0044580-A1	US		2/7/2019
5656	SYSTEMS AND METHODS FOR SIGNALING IN AN INCREASED CARRIER MONITORING WIRELESS COMMUNICATION ENVIRONMENT	16/103773	US-2019-0007184-A1	US		1/3/2019
5657	USER EQUIPMENT MEASUREMENTS FOR NEW RADIO	16/107475	US-2019-0044602-A1	US		2/7/2019
5658	METHODS APPARATUS OF ENB AND UE FOR MTC WITH NARROWBAND DEPLOYMENT	16/111634		US		
5659	CONFIGURATION SCHEMES FOR SECONDARY CELL BANDWIDTH PART AND PHYSICAL RESOURCE BLOCK INDEXING	16/123722	US-2019-0044811-A1	US		2/7/2019
5660	SYSTEM AND METHOD FOR PUCCH TRANSMISSION SCHEME	16/125506	US-2019-0149379-A1	US		5/16/2019
5661	CONNECTION POINT RELATED PERFORMANCE MEASUREMENTS IN A NETWORK FUNCTION VIRTUALIZATION ENVIRONMENT	16/126162	US-2019-0044838-A1	US		2/7/2019
5662	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) BASED ON CODEBLOCK GROUPS IN NEW RADIO SYSTEMS	16/126187	US-2019-0045489-A1	US		2/7/2019
5663	Downlink Control Channel Design in New Radio Systems	16/126260	US-2019-0045490-A1	US		2/7/2019
5664	ENHANCEMENT OF PERFORMANCE OF ULTRA-RELIABLE LOW-LATENCY COMMUNICATION	16/126472	US-2019-0045533-A1	US		2/7/2019
5665	Scheduling Request Transmission Opportunity and Resource Configuration in New Radio	16/126556	US-2019-0045529-A1	US		2/7/2019
5666	METHOD AND APPARATUS FOR CHANNEL CODING IN THE FIFTH GENERATION NEW RADIO SYSTEM	16/126776	US-2019-0097756-A1	US		3/28/2019
5667	POWER BOOSTING AND TRANSPORT BLOCK SIZE (TBS) DESIGN IN A NEW RADIO (NR) SYSTEM	16/126999	US-2019-0045390-A1	US		2/7/2019
5668	INITIALIZATION OF PSEUDO NOISE SEQUENCES FOR REFERENCE SIGNALS AND DATA SCRAMBLING	16/127829	US-2019-0044761-A1	US		2/7/2019
5669	SYSTEM AND METHOD FOR UPLINK POWER CONTRL FRAMEWORK	16/127887	US-2019-0044681-A1	US		2/7/2019
5670	TECHNIQUES FOR NR CELL/BREAM IDENTIFICATION	16/127942	US-2019-0045559-A1	US		2/7/2019
5671	APPARATUS AND METHOD FOR RSRP MEASUREMENT AND ALLOCATION OF DOWNLINK TRANSMISSION RESOURCES	16/128111	US-2019-0044631-A1	US		2/7/2019
5672	DESIGN OF CSI MEASUREMENT AND FEEDBACK FOR EMTC-U SYSTEM	16/133208	US-2019-0044598-A1	US		2/7/2019

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5673	DESIGN FOR A UE SPECIFIC SEARCH SPACE AND A COMMON SEARCH SPACE IN A WIDE COVERAGE ENHANCEMENT	16/133360	US-2019-0104503-A1	US		4/4/2019
5674	CHANNEL WHITELIST AND FLEXIBLE FRAME DESIGN FOR ENHANCED MACHINE-TYPE COMMUNICATIONS SYSTEMS IN UNLICENSED SPECTRUM	16/134124	US-2019-0044810-A1	US		2/7/2019
5675	TRAJECTORY MODIFICATION TECHNIQUE FOR POLAR TRANSMITTER	16/134210	US-2019-0260404-A1	US		8/22/2019
5676	UE (User Equipment) Assisted Measurement Gap in NR (New Radio)	16/136813	US-2019-0097877-A1	US		3/28/2019
5677	POWER HEADROOM OF GRANTLESS UPLINK	16/139443	US-2019-0045459-A1	US		2/7/2019
5678	Feed-Forward Envelope Tracking	16/140991	US-2019-0036486-A1	US		1/31/2019
5679	DESIGN OF EARLY DATA TRANSMISSION IN WIRELESS COMMUNICATION SYSTEM	16/141202	US-2019-0045554-A1	US		2/7/2019
5680	SYSTEMS METHODS AND APPARATUSES FOR PROVIDING AND OBTAINING SCHEDULING INFORMATION FOR SIB1-BR DURING HANDOVER	16/142115	US-2019-0045419-A1	US		2/7/2019
5681	Activation of Secondary Cell containing Bandwidth Parts	16/142488	US-2019-0045491-A1	US		2/7/2019
5682	SIGNAL IMBALANCE DETECTION SYSTEMS AND METHODS	16/144092		US		
5683	Bandwidth Part Signaling and Measurement Handling	16/146009	US-2019-0044689-A1	US		2/7/2019
5684	DESIGN OF SYNCHRONIZATION SIGNAL BLOCK FOR UNLICENSED CARRIER AND LISTEN BEFORE TALK STRATEGIES FOR INITIAL ACCESS	16/148352	US-2019-0053177-A1	US		2/14/2019
5685	TECHNIQUES IN NEW RADIO (NR) USER EQUIPMENT (UE) DEMODULATION OVER THE AIR (OTA) TESTS	16/148905	US-2019-0052376-A1	US		2/14/2019
5686	DYNAMIC CONFIGURATION OF UPLINK (UL) AND DOWNLINK (DL) FRAME RESOURCES FOR A TIME DIVISION DUPLEX (TDD) TRANSMISSION	16/148990	US-2019-0059095-A1	US		2/21/2019
5687	EVOLVED NODE-B (ENB) FOR MANAGEMENT OF LONG TERM EVOLUTION (LTE) WIRELESS LOCAL AREA NETWORK (WLAN) AGGREGATION (LWA) AND LTE WLAN INTERNET PROTOCOL (LWIP)	16/151018	US-2019-0045560-A1	US		2/7/2019
5688	TRANSMISSION OF PHYSICAL BROADCAST CHANNEL (PBCH) CONTENTS	16/153584	US-2019-0053093-A1	US		2/14/2019
5689	FRAMEWORK FOR COMMUNICATIONS IN UNLICENSED NARROW BAND INTERNET OF THINGS (NB-IOT) SYSTEM	16/157442	US-2019-0045372-A1	US		2/7/2019

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5690	DEVICE REQUESTED PROTOCOL DATA UNIT SESSION MODIFICATION IN THE 5G SYSTEM	16/158486	US-2019-0116518-A1	US		4/18/2019
5691	RADIO LINK MONITORING (RLM) EVALUATION MECHANISM FOR NEW RADIO (NR) SYSTEMS	16/158767	US-2019-0052380-A1	US		2/14/2019
5692	MULTI-CARRIER OPERATION FOR ENHANCED MACHINE TYPE COMMUNICATIONS IN UNLICENSED MEDIUM (EMTC-U)	16/160650	US-2019-0053064-A1	US		2/14/2019
5693	FILTER COEFFICIENT CONFIGURATION IN NEW RADIO SYSTEMS	16/162541	US-2019-0058508-A1	US		2/21/2019
5694	POWER HEADROOM REPORTING WITH DUAL CONNECTIVITY	16/162972		US		
5695	DESIGN OF FREQUENCY HOPPING PATTERN FOR UNLICENSED INTERNET-OF-THINGS SYSTEM	16/163160	US-2019-0052308-A1	US		2/14/2019
5696	RACH PROCEDURE AND CONFIGURATION FOR UNLICENSED EMTC SYSTEM	16/163191	US-2019-0116618-A1	US		4/18/2019
5697	APPARATUSES FOR SELECTING COMMUNICATION BEAMS BASED ON NORMALIZED TIME OF ARRIVAL (TOA) OF REFERENCE SIGNALS	16/163379	US-2019-0053234-A1	US		2/14/2019
5698	UPLINK CONTROL SIGNALING FOR GRANT-FREE UPLINK TRANSMISSION	16/163785	US-2019-0053226-A1	US		2/14/2019
5699	BEAM FAILURE RECOVERY OPERATION	16/166521	US-2019-0058519-A1	US		2/21/2019
5700	CONTROL RESOURCE SET INFORMATION IN PHYSICAL BROADCAST CHANNEL	16/171998	US-2019-0069322-A1	US		2/28/2019
5701	CHANNEL STATE INFORMATION REPORT FOR PHASE TRACKING REFERENCE SIGNAL PORT SELECTION	16/172602	US-2019-0068268-A1	US		2/28/2019
5702	SYSTEMS METHODS AND DEVICES FOR USING S-MEASURE WITH NEW RADIO	16/173586	US-2019-0074887-A1	US		3/7/2019
5703	QUALITY OF EXPERIENCE AWARE MULTIMEDIA ADAPTIVE STREAMING	16/174128	US-2019-0075446-A1	US		3/7/2019
5704	Dual Connectivity Techniques for NR (New Radio)	16/179421	US-2019-0090151-A1	US		3/21/2019
5705	METHODS OF LIMITED BUFFER RATE-MATCHING (LBRM) PRE-EMPTION AND SIDELINK SYNCHRONIZATION IN NEW RADIO (NR) SYSTEMS	16/181808	US-2019-0141647-A1	US		5/9/2019
5706	TRANSPORT NETWORK LAYER ASSOCIATIONS ON THE F1 INTERFACE	16/182019	US-2019-0075023-A1	US		3/7/2019
5707	SIGNALING FOR RESOURCE ALLOCATION AND SCHEDULING IN 5G-NR INTEGRATED ACCESS AND BACKHAUL	16/189157	US-2019-0222281-A1	US		7/18/2019
5708	FLEXIBLE FLOW CONTROL MECHANISM FOR NG-RAN INTERFACES	16/191760	US-2019-0150224-A1	US		5/16/2019
5709	EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC	16/192271		US		
5710	RF TRANSMIT ARCHITECTURE	16/193431	US-2019-0327118-	US		10/24/2019

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	METHODS		A1			
5711	SINGLE REGISTRATION MODE SUPPORT FOR INTERWORKING BETWEEN 5GC AND EPC	16/195147	US-2019-0159157-A1	US		5/23/2019
5712	SECURITY KEY REFRESH FOR DUAL CONNECTIVITY	16/197118	US-2019-0089425-A1	US		3/21/2019
5713	DETERMINING RESOURCES FOR UPLINK CONTROL INFORMATION ON PHYSICAL UPLINK SHARED CHANNEL AND PHYSICAL UPLINK CONTROL CHANNEL WITH FREQUENCY HOPPING	16/213919	US-2019-0116588-A1	US		4/18/2019
5714	APPARATUS FOR CORRECTING LINEARITY OF A DIGITAL-TO-ANALOG CONVERTER	16/218334	US-2019-0123751-A1	US		4/25/2019
5715	INCREASED CARRIER MONITORING	16/222904	US-2019-0141469-A1	US		5/9/2019
5716	PHASE TRACKING REFERENCE SIGNAL (PT-RS) POWER BOOSTING	16/238232	US-2019-0140729-A1	US		5/9/2019
5717	APPARATUS AND METHOD OF LWA AND LWIP CONFIGURATION PERFORMANCE AND FAULT MANAGEMENT	16/240322	US-2019-0141785-A1	US		5/9/2019
5718	BEAM MANAGEMENT FOR CARRIER AGGREGATION (CA)	16/242821	US-2019-0239245-A1	US		8/1/2019
5719	POWER HEADROOM REPORTING WITH CHANNEL SELECTION	16/243856	US-2019-0349869-A1	US		11/14/2019
5720	NEXT GENERATION NODE-B (GNB) AND METHODS TO INDICATE A TYPE OF ACCESS FOR PAGING OF A USER EQUIPMENT (UE)	16/245089	US-2019-0191409-A1	US		6/20/2019
5721	BEAM INDICATION CONSIDERING BEAM FAILURE RECOVERY IN NEW RADIO	16/245970	US-2019-0239212-A1	US		8/1/2019
5722	CSI-RS SEQUENCE GENERATION AND MAPPING AND DMRS SCRAMBLING ID CONFIGURATION	16/247171	US-2019-0149294-A1	US		5/16/2019
5723	Transmission Downlink Control Information for New Radio (NR) System	16/247187	US-2019-0223160-A1	US		7/18/2019
5724	CHANNEL CONFIGURATION AND DLUL CONFIGURATION FOR NB-IOT-U SYSTEM	16/267810	US-2019-0174476-A1	US		6/6/2019
5725	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	16/271727	US-2019-0173485-A1	US		6/6/2019
5726	METHODS TO HANDLE SCHEDULING REQUESTS FOR ULTRA-RELIABLE LOW LATENCY COMMUNICATION (URLLC) IN NEW RADIO (NR) SYSTEMS	16/273802	US-2019-0182896-A1	US		6/13/2019
5727	PUCCH AND PUSCH DEFAULT BEAM CONSIDERING BEAM FAILURE RECOVERY	16/298418	US-2019-0230730-A1	US		7/25/2019
5728	Conformally Shielded Power Inductor and Other Passive Devices for 4/5G Envelope Tracker Modules and/or Other Power Management Modules	16/299601	US-2019-0297757-A1	US		9/26/2019

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5729	END-TO-END TECHNIQUES TO CREATE PM (PERFORMANCE MEASUREMENT) THRESHOLDS AT NFV (NETWORK FUNCTION VIRTUALIZATION) INFRASTRUCTURE	16/303298	US-2019-0215235-A1	US	11/20/2018	7/11/2019
5730	UPLINK SOUNDING REFERENCE SIGNAL (SRS) TRANSMISSION IN CARRIER AGGREGATION SYSTEM	16/303759		US	11/21/2018	
5731	COMMUNICATION DEVICE AND A METHOD FOR OPERATING A COMMUNICATION DEVICE	16/305067	US-2019-0357176-A1	US	11/28/2018	11/21/2019
5732	APPARATUS SYSTEM AND METHOD OF INTERNET CONNECTIVITY VIA A RELAY STATION	16/305190		US	11/28/2018	
5733	COMMUNICATION DEVICE AND METHOD FOR SELECTING A BEAM DIRECTION	16/305916		US	11/30/2018	
5734	DYNAMIC OFFLOADING OF V2X SERVICES TO DSRC	16/306501	US-2019-0174344-A1	US	11/30/2018	6/6/2019
5735	TESTING OF USER EQUIPMENTS FOR IDLE PERIODS DISTRIBUTION	16/307346	US-2019-0141553-A1	US	12/5/2018	5/9/2019
5736	SAS CONTROLLED INTERFERENCE MANAGEMENT	16/308172	US-2019-0222339-A1	US	12/7/2018	7/18/2019
5737	CHANNEL STATE AND BEAM RELATED INFORMATION REPORTING	16/309856	US-2019-0173622-A1	US	12/13/2018	6/6/2019
5738	DEVICE FOR AND METHOD OF RADIO ACCESS TECHNOLOGY SELECTION AMONG MULTIPLE RADIO ACCESS TECHNOLOGIES	16/310407	US-2019-0150082-A1	US	12/14/2018	5/16/2019
5739	RRC COORDINATION BETWEEN A PLURALITY OF NODES	16/316489	US-2019-0297662-A1	US	1/9/2019	9/26/2019
5740	INDOOR POSITIONING ENHANCEMENTS	16/316494	US-2019-0297595-A1	US	1/9/2019	9/26/2019
5741	SUPPORT OF SC-PTM BASED MULTICASTING FOR BL/CE AND NB-IoT UEs	16/316771	US-2019-0246254-A1	US	1/10/2019	8/8/2019
5742	SYSTEMS AND METHOD FOR SELECTING CARRIER RESOURCES FOR NAROWBAND PHYSICAL RANDOM ACCESS CHANNEL PROCEDURES	16/316842		US	1/10/2019	
5743	USING A MANAGED OBJECT OPERATION TO CONTROL A LIFECYCLE MANAGEMENT OPERATION	16/319886	US-2019-0266012-A1	US	1/23/2019	8/29/2019
5744	A TRANSMITTER AND A METHOD FOR GENERATING AN ANALOG RADIO FREQUENCY TRANSMIT SIGNAL	16/321082	US-2019-0181889-A1	US	1/28/2019	6/13/2019
5745	DEVICES AND METHODS FOR ELAA MULTI-CARRIER LBT	16/321812	US-2019-0174546-A1	US	1/29/2019	6/6/2019
5746	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)	16/322040	US-2019-0191453-A1	US	1/30/2019	6/20/2019

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5747	MOBILE TERMINAL DEVICES AND METHODS IN MOBILE COMMUNICATION DEVICES	16/323261	US-2019-0215783-A1	US	2/5/2019	7/11/2019
5748	TRANSMISSION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS)	16/323465		US	2/5/2019	
5749	BEAM MEASUREMENT AND REPORTING IN CELLULAR NETWORKS	16/324667	US-2019-0182696-A1	US	2/11/2019	6/13/2019
5750	ANTENNA ARRANGEMENT FOR WIRELESS VIRTUAL-REALITY HEADSET	16/325601	US-2019-0214709-A1	US	2/14/2019	7/11/2019
5751	SYSTEMS METHODS AND DEVICES FOR UPLINK BEARER AND ACCESS CATEGORY MAPPING	16/326652		US	2/19/2019	
5752	CHIP-ENHANCED BATTERY	16/327399	US-2019-0200199-A1	US	2/22/2019	6/27/2019
5753	SIGNALING TO SUPPORT REDUCED PROCESSING TIME	16/327775	US-2019-0215906-A1	US	2/22/2019	7/11/2019
5754	MOBILE DEVICE MANAGEMENT BASED ON PREDICTED BASE STATION BEHAVIOR	16/327878	US-2019-0223098-A1	US	2/25/2019	7/18/2019
5755	LINK MONITORING REPETITION LEVEL FEEDBACK FOR COMMUNICATION SYSTEMS	16/328543	US-2019-0215909-A1	US	2/26/2019	7/11/2019
5756	APPARATUSES AND METHODS FOR MEASURING NEIGHBORING INTER-FREQUENCY OR INTER-RAT CELLS	16/328741	US-2019-0200270-A1	US	2/27/2019	6/27/2019
5757	SYSTEMS AND METHODS TO REPORT BAND COMBINATION CAPABILITIES IN A TELECOMMUNICATION NETWORK	16/339143	US-2019-0306925-A1	US	4/3/2019	10/3/2019
5758	UE AND DEVICES FOR CODEC RATE ADAPTATION	16/339300		US	4/3/2019	
5759	SIGNALING OF SUPPORT FOR NETWORK CONTROLLED SMALL GAP NCSG FOR INTERRUPTION CONTROL	16/339500		US	4/4/2019	
5760	DOWNLINK CONTROL INFORMATION DESIGN WITH SHORTER TTI	16/346335	US-2019-0268931-A1	US	4/30/2019	8/29/2019
5761	REFERENCE SIGNAL TIME DIFFERENCE (RSTD) MEASUREMENTS FOR OBSERVED TIME DIFFERENCE OF ARRIVAL (OTDOA) POSITIONING	16/347800	US-2019-0257916-A1	US	5/6/2019	8/22/2019
5762	DYNAMIC PROTOCOL STACK RESET DURING RADIO HANDOVER	16/348380	US-2019-0313296-A1	US	5/8/2019	10/10/2019
5763	SYSTEMS METHODS AND DEVICES FOR CONGESTION CONTROL FOR TRANSPORT OF USER DATA VIA A CONTROL PLANE	16/349219		US	5/10/2019	
5764	BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM	16/349251	US-2019-0289668-A1	US	5/10/2019	9/19/2019
5765	USER EQUIPMENT (UE) GENERATION NODE-B (GNB) AND METHODS FOR SIGNALING OF CONTROL INFORMATION FOR PRE-CODING	16/349556		US	5/13/2019	
5766	PHYSICAL RESOURCE BLOCK INDEXING FOR COEXISTENCE OF NARROW BAND CARRIER AGGREGATION AND WIDE BAND USER EQUIPMENT IN NEW RADIO	16/349584	US-2019-0280843-A1	US	5/13/2019	9/12/2019

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5767	MANAGEMENT OF VOICE SERVICES FOR USER EQUIPMENTS IN COVERAGE ENHANCEMENT (CE) MODE B	16/349587	US-2019-0273762-A1	US	5/13/2019	9/5/2019
5768	MEASUREMENT OF BEAM REFINEMENT SIGNAL	16/349957	US-2019-0334611-A1	US	5/14/2019	10/31/2019
5769	SYNCHRONIZATION SIGNAL TRANSMISSION TECHNIQUES	16/349960	US-2019-0319699-A1	US	5/14/2019	10/17/2019
5770	COVERAGE ENHANCEMENT FOR UNLICENSED INTERNET OF THINGS (U-IoT)	16/349963	US-2019-0288811-A1	US	5/14/2019	9/19/2019
5771	TECHNIQUES FOR CONTROLLING SPECIFIC ABSORPTION RATE OF RADIO ENERGY TRANSMISSION	16/381554	US-2019-0349017-A1	US		11/14/2019
5772	USER EQUIPMENT AND METHODS OF BEARER OPERATION FOR CARRIER AGGREGATION	16/406791		US		
5773	OFDMA-BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION	16/406808		US		
5774	APPARATUSES TO AUTHORIZE AND ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	16/407004	US-2019-0274088-A1	US		9/5/2019
5775	FILTER COEFFICIENT CONFIGURATION IN NEW RADIO SYSTEMS	16/407126		US		
5776	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR FLEXIBLE DUPLEX COMMUNICATION	16/407143	US-2019-0335478-A1	US		10/31/2019
5777	DEVICE AND METHOD TO IMPROVE HORIZONTAL AND VERTICAL POSITIONING ACCURACY	16/407148		US		
5778	REFERENCE SIGNALS FOR INITIAL ACQUISITION IN 5G SYSTEMS	16/407154		US		
5779	APPARATUS AND METHOD FOR IOT CONTROL CHANNEL	16/407159	US-2019-0335428-A1	US		10/31/2019
5780	CSI-RS SEQUENCE GENERATION AND MAPPING AND DMRS SCRAMBLING ID CONFIGURATION	16/407743	US-2019-0327050-A1	US		10/24/2019
5781	PUCCH AND PUSCH DEFAULT BEAM CONSIDERING BEAM FAILURE RECOVERY	16/407801	US-2019-0335524-A1	US		10/31/2019
5782	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)	16/407961	US-2019-0335493-A1	US		10/31/2019
5783	TRANSMISSION OF PHASE TRACKING REFERENCE SIGNALS (PT-RS) FOR BANDWIDTH PARTS	16/408003	US-2019-0356463-A1	US		11/21/2019
5784	BEAM MANAGEMENT FOR CARRIER AGGREGATION (CA)	16/408021	US-2019-0357249-A1	US		11/21/2019
5785	SYSTEM AND METHOD FOR PUCCH TRANSMISSION SCHEME	16/408063	US-2019-0273644-A1	US		9/5/2019
5786	SIGNALING FOR RESOURCE ALLOCATION AND SCHEDULING IN 5G-NR INTEGRATED ACCESS AND BACKHAUL	16/408070		US		

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5787	UE-TO-NETWORK RELAY INITIATION AND CONFIGURATION	16/408092		US		
5788	CLIENT/SERVER SIGNALING COMMANDS FOR DASH	16/408101		US		
5789	ATTENTION (AT) COMMANDS FOR PACKET DATA NETWORK CONNECTION OFFLOAD	16/408166		US		
5790	DEVICE AND METHOD OF CONFIGURABLE SYNCHRONIZATION SIGNAL AND CHANNEL DESIGN	16/408193	US-2019-0334646-A1	US		10/31/2019
5791	ACK/NACK SIGNALS FOR NEXT GENERATION LTE DEVICES AND SYSTEMS	16/408223		US		
5792	NETWORK FUNCTIONS VIRTUALIZATION	16/408231	US-2019-0334777-A1	US		10/31/2019
5793	DEVICES AND METHODS OF USING NETWORK FUNCTION VIRTUALIZATION AND VIRTUALIZED RESOURCES PERFORMANCE DATA TO IMPROVE PERFORMANCE	16/408234	US-2019-0334796-A1	US		10/31/2019
5794	NEXT GENERATION NODE-B (GNB) AND METHODS TO INDICATE A TYPE OF ACCESS FOR PAGING OF A USER EQUIPMENT (UE)	16/408265	US-2019-0335418-A1	US		10/31/2019
5795	TRANSPORT NETWORK LAYER ASSOCIATIONS ON THE F1 INTERFACE	16/408296		US		
5796	POWER BOOSTING AND TRANSPORT BLOCK SIZE (TBS) DESIGN IN A NEW RADIO (NR) SYSTEM	16/408313		US		
5797	USER EQUIPMENT MEASUREMENTS FOR NEW RADIO	16/408357		US		
5798	NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	16/408456	US-2019-0357246-A1	US		11/21/2019
5799	PHYSICAL BROADCAST CHANNEL DESIGN	16/408461	US-2019-0349913-A1	US		11/14/2019
5800	MANAGEMENT TECHNIQUES FOR WIRELESS NETWORK MOBILITY PROCEDURES	16/418273	US-2019-0313237-A1	US		10/10/2019
5801	SYSTEMS METHODS AND DEVICES FOR RADIO ACCESS TECHNOLOGY COORDINATION	16/418703	US-2019-0274148-A1	US		9/5/2019
5802	WIRELESS LOCAL AREA NETWORK (WLAN) CONNECTIVITY OPTION DISCOVERY	16/444416	US-2019-0306868-A1	US		10/3/2019
5803	USER EQUIPMENT AND METHODS FOR PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE ALLOCATION AND COMMUNICATION	16/446860		US		
5804	SYSTEMS AND METHODS FOR EFFICIENT TRAFFIC OFFLOAD WITHOUT SERVICE DISRUPTION	16/448906		US		
5805	SYSTEMS METHODS AND DEVICES FOR USING S-MEASURE WITH NEW RADIO	16/448951		US		
5806	SYSTEM AND METHOD OF CONTROLLING A TRANSMISSION	16/454066		US		

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5807	USER EQUIPMENT CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	16/454546		US		
5808	APPARATUS FOR OVERLOAD RECOVERY OF AN INTEGRATOR IN A SIGMA-DELTA MODULATOR	16/457058	US-2019-0326925-A1	US		10/24/2019
5809	SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION	16/457367		US		
5810	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM	16/461727	US-2019-0320498-A1	US	5/16/2019	10/17/2019
5811	CONTROL CHANNEL DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEM INFORMATION BLOCK (SIB) TRANSMISSION	16/462192		US	5/17/2019	
5812	HANDLING OF USER EQUIPMENT COVERAGE ENHANCEMENT MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN USER EQUIPMENT USAGE SETTING	16/462339		US	5/20/2019	
5813	APPARATUSES TO SWITCH BETWEEN LTE RAT AND NR RAT DURING TRANSITION FROM INACTIVE STATE TO ACTIVE STATE	16/462342	US-2019-0320483-A1	US	5/20/2019	10/17/2019
5814	SUPPORT OF FLEXIBLE PDCCH MONITORING IN NEW RADIO (NR)	16/462644	US-2019-0306737-A1	US	5/21/2019	10/3/2019
5815	TIME ADVANCE ADJUSTMENT DELAY FOR SHORTENED TRANSMISSION TIME INTERVAL UNDER CARRIER AGGREGATION OR DUAL CONNECTIVITY	16/462877		US	5/21/2019	
5816	COMMON PHYSICAL DOWNLINK CONTROL CHANNEL (cPDCCH) DESIGN FOR MULTIFIRE WIDEBAND COVERAGE ENHANCEMENT (WCE) SYSTEMS	16/463338		US	5/22/2019	
5817	SIGNALING OF A CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) MAPPING CONFIGURATION FOR A NEW RADIO (NR) SYSTEM	16/463953		US	5/24/2019	
5818	MONITORING CONTROL CHANNELS IN CONTROL RESOURCE SETS FOR NEW RADIO	16/463971		US	5/24/2019	
5819	RESOURCE ALLOCATION FOR SYSTEM INFORMATION BLOCK (SIB) TRANSMISSION IN A MULTIFIRE SYSTEM	16/463998		US	5/24/2019	
5820	TECHNIQUES TO PERFORM A RANDOM-ACCESS CHANNEL PROCEDURE FOR HANDOVERS IN A WIRELESS COMMUNICATION ENVIRONMENT	16/464768	US-2019-0313300-A1	US	5/29/2019	10/10/2019
5821	TRANSMISSION OF GROUP COMMON PDCCH (PHYSICAL DOWNLINK CONTROL CHANNEL) FOR NR (NEW RADIO)	16/464814	US-2019-0349904-A1	US	5/29/2019	11/14/2019

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5822	Performance Measurements Related to Virtualized Resources	16/464840		US	5/29/2019	
5823	METHODS AND ARRANGEMENTS FOR WIDE BANDWIDTH COMMUNICATIONS	16/464927		US	5/29/2019	
5824	PARTIAL UPLINK SUBFRAME TRANSMISSIONS ON UNLICENSED CARRIERS	16/465121	US-2019-0327117-A1	US	5/29/2019	10/24/2019
5825	MANAGING LINK QUALITY AND USING PARTIAL SUBFRAMES IN WIRELESS TELECOMMUNICATION NETWORKS	16/465225		US	5/30/2019	
5826	MEASUREMENT JOB SUSPENSION AND RESUMPTION IN NETWORK FUNCTION VIRTUALIZATION	16/465453		US	5/30/2019	
5827	DPLL WITH ADJUSTABLE DELAY IN INTEGER OPERATION MODE	16/465515		US	5/30/2019	
5828	SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST OPERATION FOR CARRIER AGGREGATION WITH MIXED NUMEROLOGIES	16/465530		US	5/30/2019	
5829	UPLINK CONTROL INFORMATION (UCI) TRANSMISSION AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) PROCESS IDENTIFICATION FOR GRANT-FREE PHYSICAL UPLINK SHARED CHANNEL (PUSCH)	16/465977		US	5/31/2019	
5830	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IOT)	16/465978		US	5/31/2019	
5831	SYSTEM AND METHOD FOR PHASE TRACKING REFERENCE SIGNAL (PT-RS) MULTIPLEXING	16/465994	US-2019-0296877-A1	US	5/31/2019	9/26/2019
5832	GRANTLESS UPLINK (GUL) CONFIGURATION	16/465996		US	5/31/2019	
5833	SUPPORT OF 64 QAM FOR EFEMTC PDSCH TRANSMISSION	16/465998		US	5/31/2019	
5834	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)	16/466446		US	6/4/2019	
5835	UE TESTING SYSTEM FOR RF CHARACTERISTICS FOR THE NEW RADIO STANDARD	16/467102		US	6/6/2019	
5836	REG BUNDLING SIZE AND DM-RS PATTERN FOR PHYSICAL DOWNLINK CONTROL CHANNEL	16/467185		US	6/6/2019	
5837	CONTROL CHANNEL TRANSMISSION IN NEW RADIO ACCESS TECHNOLOGIES USING COMMON SEARCH SPACE	16/467549	US-2019-0313388-A1	US	6/7/2019	10/10/2019

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5838	BEAMFORMING MEASUREMENTS BASED ON PSS/SSS	16/471506	US-2019-0327650-A1	US	6/19/2019	10/24/2019
5839	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER IN NEW RADIO (NR) SYSTEMS	16/473235	US-2019-0327651-A1	US	6/24/2019	10/24/2019
5840	NR (New Radio) PRACH (Physical Random Access Channel) Configuration and Multi-Beam Operation	16/473382		US	6/25/2019	
5841	CONTROL RESOURCE BLOCK SET SEARCH SPACE DESIGN	16/473558	US-2019-0350049-A1	US	6/25/2019	11/14/2019
5842	TRACKING REFERENCE SIGNALS FOR NEW RADIO	16/473563		US	6/25/2019	
5843	ADVERTISEMENT OF NR CAPABILITY TO USER EQUIPMENT	16/473577		US	6/25/2019	
5844	NARROWBAND INTERNET-OF-THINGS (NB-IOT) ENHANCEMENTS	16/473586		US	6/25/2019	
5845	REPORTING A NUMBER OF EFFECTIVE FREQUENCIES FOR RADIO RESOURCE MANAGEMENT PURPOSES	16/473663	US-2019-0357068-A1	US	6/26/2019	11/21/2019
5846	TECHNOLOGY COORDINATION FOR DEVICE-TO-DEVICE DISCOVERY	16/474036		US	6/26/2019	
5847	POSITIONING ENHANCEMENTS FOR NARROWBAND INTERNET OF THINGS	16/474149	US-2019-0349881-A1	US	6/27/2019	11/14/2019
5848	APPARATUS AND METHOD FOR INTERPOLATING BETWEEN A FIRST AND A SECOND SIGNAL	16/474560	US-2019-0356306-A1	US	6/28/2019	11/21/2019
5849	APPARATUS OF GNB TO ENABLE AN INACTIVE MODE IN DUAL CONNECTIVITY	16/475056		US	6/28/2019	
5850	SYSTEMS METHODS AND DEVICES FOR MEETING CELLULAR DATA TURNAROUND TIME	16/475619	US-2019-0327024-A1	US	7/2/2019	10/24/2019
5851	INSTANTIATION AND MANAGEMENT OF PHYSICAL AND VIRTUALIZED NETWORK FUNCTIONS OF A RADIO ACCESS NETWORK NODE	16/475621	US-2019-0327621-A1	US	7/2/2019	10/24/2019
5852	SYSTEMS METHODS AND APPARATUSES FOR DIAMETER BASED INTERFACES TO ENABLE RESTRICTIONS OF COVERAGE ENHANCEMENT IN WIRELESS NETWORKS	16/475624		US	7/2/2019	
5853	INTER-NODE INTERFERENCE AVOIDANCE	16/475667		US	7/5/2019	
5854	ACCESS CONTROL FOR WIRELESS CELLULAR COMMUNICATION SYSTEMS	16/475670	US-2019-0349843-A1	US	7/2/2019	11/14/2019
5855	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR INTERLEAVING IN MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) ARRANGEMENTS	16/475733	US-2019-0334585-A1	US	7/3/2019	10/31/2019
5856	TRANSMISSION SCHEME FOR COMMON CONTROL MESSAGE WITH MULTI-BEAM OPERATION	16/475765	US-2019-0357303-A1	US	7/3/2019	11/21/2019

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5857	LOW OVERHEAD SUBBAND PHYSICAL DOWNLINK CONTROL FOR COMMUNICATION SYSTEMS	16/475782	US-2019-0349153-A1	US	7/3/2019	11/14/2019
5858	QUALITY OF SERVICE FLOW TO DATA RADIO BEARER MAPPING OVERRIDE BIT	16/475851	US-2019-0357086-A1	US	7/3/2019	11/21/2019
5859	SYSTEMS METHODS AND DEVICES FOR VIRTUAL RESOURCE METRIC MANAGEMENT	16/476011	US-2019-0349272-A1	US	7/3/2019	11/14/2019
5860	NETWORK RESOURCE MODEL TO SUPPORT NEXT GENERATION NODE B	16/476028	US-2019-0357084-A1	US	7/3/2019	11/21/2019
5861	SEMI-PERSISTENT SCHEDULING FOR AUTONOMOUS TRANSMISSION ACTIVATION AND RELEASE	16/476038	US-2019-0349908-A1	US	7/3/2019	11/14/2019
5862	RESOURCE MAPPING AND MULTIPLEXING OF UPLINK CONTROL CHANNEL AND UPLINK DATA CHANNEL	16/476040	US-2019-0335449-A1	US	7/3/2019	10/31/2019
5863	MECHANISMS TO HANDLE DL (DOWNLINK) CONTROL AND DATA CHANNELS WITH DIFFERENT NUMEROLOGIES IN NR (NEW RADIO)	16/476127	US-2019-0357198-A1	US	7/5/2019	11/21/2019
5864	ESTABLISHMENT OF RANDOM ACCESS CHANNEL COMMUNICATIONS	16/476180	US-2019-0357272-A1	US	7/5/2019	11/21/2019
5865	POWER HEADROOM REPORTING FOR SHORTENED TRANSMISSION TIME INTERVALS	16/476375		US	7/8/2019	
5866	NETWORK CONTROLLED SMALL GAP CONFIGURATION	16/476381		US	7/8/2019	
5867	Determining Timing Differences Between Primary and Secondary Component Carriers Having Variable Transmission Time Intervals	16/476397		US	7/8/2019	
5868	DEVICE AND METHOD TO ALLOW CROSS-TRANSMISSION TIME INTERVAL (TTI) SWITCHING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) OPERATION IN A NEW RADIO NETWORK	16/476528	US-2019-0356426-A1	US	7/8/2019	11/21/2019
5869	DOWNLINK CONTROL SIGNALING SEGMENTATION	16/476657		US	7/9/2019	
5870	RESOURCE ELEMENT (RE) MAPPING IN NEW RADIO (NR)	16/477376		US	7/11/2019	
5871	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS OF SWITCHING BETWEEN DIRECT AND INDIRECT COMMUNICATION FOR A RELAY ARRANGEMENT	16/477454	US-2019-0357101-A1	US	7/11/2019	11/21/2019
5872	NEW RADIO CONTROL CHANNEL RESOURCE SET DESIGN	16/477475	US-2019-0357185-A1	US	7/11/2019	11/21/2019
5873	SYSTEM INFORMATION DECODING IN WIRELESS NETWORKS	16/477497		US	7/11/2019	
5874	LOCATION POSITIONING PROTOCOL BASED POSITIONING FOR UES IN IDLE MODE	16/477572		US	7/12/2019	

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5875	New Radio (NR) Physical Uplink Structures and Schemes	16/478224		US	7/16/2019	
5876	Paging and Essential System Information Block (SIB) Transmission in the Unlicensed Internet of Things (U-IOT) System	16/478246		US	7/16/2019	
5877	PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) DEMODULATION REFERENCE SIGNAL (DMRS) TRANSMISSION AND RECEPTION	16/478456		US	7/16/2019	
5878	PHASE TRACKING REFERENCE SIGNAL INDICATION IN MULTI-USER SUPERPOSITION TRANSMISSION	16/478813		US	7/17/2019	
5879	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS TO INDICATE PARAMETERS FOR A RELAY ARRANGEMENT	16/479161	US-2019-0350047-A1	US	7/18/2019	11/14/2019
5880	GENERATION NODE-B (GNB) USER EQUIPMENT (UE) AND METHODS FOR HANDOVER BASED ON MULTI-CONNECTIVITY IN NEW RADIO (NR) SYSTEMS	16/479176		US	7/18/2019	
5881	DESIGN OF SCHEDULING REQUEST FOR FURTHER ENHANCED NARROWBAND INTERNET OF THINGS (feNB-IoT)	16/479188		US	7/18/2019	
5882	CHANNEL STATE INFORMATION CONCATENATION AND ANTENNA PORT MEASUREMENT	16/479195	US-2019-0349057-A1	US	7/18/2019	11/14/2019
5883	EXIT CONDITIONS FOR CONDITIONAL HANDOVERS AND BEAM BASED MOBILITY STATE ESTIMATION	16/479482		US	7/19/2019	
5884	SYSTEMS METHODS AND DEVICES FOR MEASUREMENT CONFIGURATION BY A SECONDARY NODE IN EN-DC	16/479487		US	7/19/2019	
5885	ABSOLUTE POWER CONTROL TOLERANCE FOR NB-IOT/MTC	16/479549		US	7/19/2019	
5886	QUASI CO-LOCATION (QCL) FOR ANTENNA PORTS IN NEW RADIO (NR)	16/479556		US	7/19/2019	
5887	DEVICES FOR PER-CC MEASUREMENT GAP CONFIGURATION	16/479856		US	7/22/2019	
5888	AUTONOMOUS HANDOVER FOR WIRELESS NETWORKS	16/479891		US	7/22/2019	
5889	FAKE GNB/ENB DETECTION USING IDENTITY-BASED AUTHENTICATION AND ENCRYPTION	16/479895	US-2019-0349765-A1	US	7/22/2019	11/14/2019
5890	MECHANISMS FOR HANDLING UPLINK GRANTS INDICATING DIFFERENT PHYSICAL UPLINK SHARED CHANNEL STARTING POSITIONS IN A SAME SUBFRAME	16/480196		US	7/23/2019	
5891	SYSTEMS METHODS AND DEVICES FOR SELECTING CELLULAR TIMING CONFIGURATIONS	16/480272		US	7/23/2019	
5892	SYSTEM INFORMATION ACQUISITION ENHANCEMENTS FOR WIRELESS	16/480837		US	7/25/2019	

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	DEVICES					
5893	SYSTEMS AND METHODS FOR DELIVERING RADIO APPLICATIONS TO RECONFIGURABLE RADIO EQUIPMENT	16/481289		US	7/26/2019	
5894	BUFFER STATUS REPORT ENHANCEMENTS FOR TCP FLOW	16/481792		US	7/29/2019	
5895	DETERMINATION OF NEW RADIO (NR) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE FOR HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT (HARQ-ACK) FEEDBACK	16/482758		US	8/1/2019	
5896	High Speed train in New Radio (NR)	16/483181		US	8/2/2019	
5897	Beam Recovery Frame Structure and Recovery Request for Communication Systems	16/483252		US	8/2/2019	
5898	METHOD AND APPARATUS FOR CROSS RETRANSMISSION BETWEEN GUL AND SUL	16/483388		US	8/2/2019	
5899	METHOD AND APPARATUS FOR NUMEROLOGY CONFIGURATION IN NON-COHERENT JOINT TRANSMISSION	16/483393		US	8/2/2019	
5900	METHOD AND APPARATUS FOR COMMUNICATION IN LTE SYSTEM ON UNLICENSED SPECTRUM	16/483561		US	8/5/2019	
5901	PHYSICAL UPLINK SHARED CHANNEL (PUSCH) TRANSMISSION BASED ON ROBUST CODEBOOK	16/483568		US	8/5/2019	
5902	METHOD AND APPARATUS FOR RADIO LINK MONITORING	16/483982		US	8/6/2019	
5903	METHOD AND APPARATUS FOR INTERFERENCE MEASUREMENT USING BEAM MANAGEMENT REFERENCE SIGNAL	16/484040		US	8/6/2019	
5904	USER EQUIPMENT WITH ADAPTIVE TRANSMISSION POWER SCALING BASED ON DECODING CONFIDENCE	16/484325		US	8/7/2019	
5905	INSTANTIATION OF A VIRTUAL NETWORK FUNCTION (VNF) AS PART OF A GNODEB (GNB)	16/484422		US	8/7/2019	
5906	DESIGN OF DOWNLINK CONTROL INFORMATION FOR WIDEBAND COVERAGE ENHANCEMENT	16/484438		US	8/7/2019	
5907	METHODS AND SYSTEMS FOR INSTANTIATING AND CONNECTING RADIO ACCESS NETWORK VIRTUALIZED NETWORK FUNCTION AND CORE NETWORK VIRTUALIZED NETWORK FUNCTION	16/484790		US	8/8/2019	
5908	BANDWIDTH PART CONFIGURATION AND OPERATION FOR NEW RADIO (NR) WIDEBAND USER EQUIPMENT (UE)	16/484802		US	8/8/2019	
5909	SUPPORTING SON FUNCTIONS ON NETWORK SLICE INSTANCES	16/485088		US	8/9/2019	

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5910	Techniques for Improved Beam Management	16/487155		US	8/20/2019	
5911	Design of Cell Specific Reference Signal (CRS) Muting for Even Further Enhanced Machine Type Communication (EFEMTC)	16/487226		US	8/20/2019	
5912	DEVICES AND METHODS FOR DYNAMIC RACH	16/487390		US	8/20/2019	
5913	UE CAPABILITY INDICATION TO POSITIONING SERVER	16/487406		US	8/20/2019	
5914	RADIO LINK MONITORING BEAM RECOVERY AND RADIO LINK FAILURE HANDLING	16/487665		US	8/21/2019	
5915	SYSTEMS METHODS AND APPARATUSES FOR CONFIGURING MEASUREMENT GAP PER FREQUENCY GROUP AND PER CELL	16/487688		US	8/21/2019	
5916	SYSTEMS METHODS AND APPARATUSES FOR MANAGING MULTIPLE ANCHORS FOR MULTI-HOMING	16/487706		US	8/21/2019	
5917	USER EQUIPMENT (UE) EVOLVED NODE-B (ENB) AND METHODS OF PAGING IN ACCORDANCE WITH A RELAY ARRANGEMENT	16/487778		US	8/21/2019	
5918	EXPIRATION HANDLING OF TWO-STAGE GRANT VALIDITY DURATION	16/487788		US	8/21/2019	
5919	Method for Interference Measurement in New Radio (NR) Communication Systems	16/488039		US	8/22/2019	
5920	TIMING DETERMINATION TECHNIQUES FOR 5G RADIO ACCESS NETWORK CELLS	16/488133		US	8/22/2019	
5921	TECHNIQUES TO ENABLE PHYSICAL DOWNLINK CONTROL CHANNEL COMMUNICATIONS	16/488153		US	8/22/2019	
5922	ENHANCED CONDITIONAL HANDOVER	16/488175		US	8/22/2019	
5923	DOWNLINK CONTROL INFORMATION TO SUPPORT UPLINK PARTIAL SUBFRAME TRANSMISSION ON LICENSED ASSISTED ACCESS SECONDARY CELL	16/488187		US	8/22/2019	
5924	SUB-PRB RESOURCE ALLOCATION FOR PUSCH IN EVEN FURTHER ENHANCED MTC	16/488200		US	8/22/2019	
5925	TECHNIQUES FOR CHANNEL STATE DETERMINATION	16/488354		US	8/23/2019	
5926	PRIORITIZED MESSAGING AND RESOURCE SELECTION IN VEHICLE-TO-VEHICLE (V2V) SIDELINK COMMUNICATION	16/488552		US	8/23/2019	
5927	SECURITY FOR PAGING MESSAGES	16/488556		US	8/23/2019	
5928	CONTROL SIGNALING FOR DEMODULATION REFERENCE SIGNAL ANTENNA PORT INDICATION	16/488563		US	8/23/2019	

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5929	EFFICIENT BEAM SEARCH METHODS FOR THREE-DIMENSIONAL BEAMFORMING WITH NON-PRECODED REFERENCE SIGNALS	16/488618		US	8/26/2019	
5930	SYSTEMS METHODS AND DEVICES FOR SELECTING A PUBLIC LAND MOBILE NETWORK USING COVERAGE ENHANCEMENT INDICATORS	16/489178		US	8/27/2019	
5931	IMPROVED HANDLING OF TIMER EXPIRY FOR MT CSFB	16/489222		US	8/27/2019	
5932	SYSTEMS METHODS AND DEVICES FOR LEGACY SYSTEM FALLBACK IN A CELLULAR COMMUNICATIONS SYSTEM	16/489279		US	8/27/2019	
5933	IoT goes Unlicensed	16/489475		US	8/28/2019	
5934	BEAM MANAGEMENT PROCEDURE TRIGGERING AND SIGNALING DELIVERY IN FALL-BACK MODE	16/489913		US	8/29/2019	
5935	DEVICE RADAR SENSING	16/490218		US	8/30/2019	
5936	MAXIMUM CHANNEL OCCUPANCY TIME SHARING AND CO-EXISTENCE	16/490260		US	8/30/2019	
5937	COMMON SEARCH SPACE DESIGN IN ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	16/490263		US	8/30/2019	
5938	TRANSMISSION OF SYNCHRONIZATION SIGNALS	16/490884		US	9/3/2019	
5939	CHANNEL QUALITY INDICATOR TABLE DESIGN FOR WIDEBAND COVERAGE ENHANCEMENT IN MULTIFIRE SYSTEMS	16/493739		US	9/12/2019	
5940	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) FOR GRANT-LESS UPLINK (GUL) AND SCHEDULED UPLINK (SUL) IN LICENSED ASSISTED ACCESS (LAA) SYSTEMS	16/494544		US	9/16/2019	
5941	ENHANCED CELL SEARCH AND SYSTEM INFORMATION ACQUISITION	16/496363		US	9/20/2019	
5942	ANCHOR CHANNEL DESIGN FOR UNLICENSED INTERNET OF THINGS (IoT)	16/496375		US	9/20/2019	
5943	DESIGN OF EARLY TERMINATION SIGNAL AND HARQ-ACK FEEDBACK FOR PUSCH	16/496882		US	9/23/2019	
5944	NEW RADIO (NR) SHORT AND LONG DURATION PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) DESIGN	16/496904		US	9/23/2019	
5945	TRANSPORT BLOCK DECODING OPERATION FOR HYBRID TRANSMISSION TIME INTERVAL (TTI) LENGTHS IN WIRELESS COMMUNICATION SYSTEMS	16/497484		US	9/25/2019	
5946	PHYSICAL DOWNLINK CONTROL CHANNELS (PDCCH) AND ENHANCED PDDCHS (EPDCCCH) IN WIDEBAND COVERAGE ENHANCEMENT (WCE) ARRANGEMENTS	16/497750		US	9/25/2019	

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5947	SYSTEM AND METHOD FOR BEAM MANAGEMENT PROCEDURE CONFIGURATION	16/498805		US	9/27/2019	
5948	MULTEFIRE ARCHITECTURE FOR CELLULAR INTERNET-OF-THINGS (CIOT)	16/499016		US	9/27/2019	
5949	MANAGEMENT OF GNB IN NETWORK FUNCTIONS VIRTUALIZATION FRAMEWORK	16/499044		US	9/27/2019	
5950	ACCESS CONTROL MECHANISM	16/499067		US	9/27/2019	
5951	GAP PATTERN DESIGN FOR NEW RADIO (NR) SYSTEMS	16/499747		US	9/30/2019	
5952	NETWORK FUNCTION VIRTUALIZATION INFRASTRUCTURE PERFORMANCE	16/499847		US	9/30/2019	
5953	ENHANCED NETWORK SLICE MANAGEMENT FOR WIRELESS COMMUNICATIONS	16/499857		US	9/30/2019	
5954	CENTRALIZED UNIT AND DISTRIBUTED UNIT CONNECTION IN A VIRTUALIZED RADIO ACCESS NETWORK	16/499861		US	9/30/2019	
5955	BEAMFORMED MEASUREMENT FOR NEW RADIO (NR)	16/500351		US	10/2/2019	
5956	HANDLING COLLISION FOR MINI-SLOT-BASED AND SLOT-BASED TRANSMISSION	16/500772		US	10/3/2019	
5957	METHODS AND ARRANGEMENTS TO SIGNAL FOR AERIAL VEHICLES	16/500889		US	10/4/2019	
5958	CONCURRENT TRANSMISSION OF ACKNOWLEDGMENT AND SCHEDULING REQUEST INFORMATION ON A CONTROL CHANNEL	16/500890		US	10/4/2019	
5959	System and Method for Phase Noise Compensation	16/500937		US	10/4/2019	
5960	RS (Reference Signal) Sequence Generation and Mapping and Precoder Assignment for NR (New Radio)	16/500971		US	10/4/2019	
5961	METHOD AND DEVICE FOR SCHEDULING CELL QUALITY MEASUREMENTS IN A MOBILE RECEIVER	16/507501		US		
5962	APPARATUS METHOD AND COMPUTER PROGRAM FOR TRANSCEIVERS OF A MOBILE COMMUNICATION SYSTEM	16/508409		US		
5963	COMMUNICATION DEVICE AND METHOD FOR RECEIVING SIGNALS IN A FREQUENCY RANGE	16/512461		US		
5964	METHOD AND AN APPARATUS FOR DETERMINING A NOISE SHAPED QUANTIZED PARAMETER CONTRIBUTING TO THE GENERATION OF AN OUTPUT SIGNAL	16/516281		US		
5965	SYSTEMS METHODS AND DEVICES FOR DIRECT COMMUNICATION	16/516904		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
5966	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES	16/530732		US		
5967	DEVICES AND METHODS FOR HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	16/536818		US		
5968	EVOLVED NODE-B AND USER EQUIPMENT AND METHODS FOR OPERATION IN A COVERAGE ENHANCEMENT MODE	16/538823		US		
5969	AMPLIFICATION CIRCUIT APPARATUS FOR AMPLIFYING LOW NOISE AMPLIFIER RADIO RECEIVER MOBILE TERMINAL BASE STATION AND METHOD FOR AMPLIFYING	16/538887		US		
5970	SPECTRUM SHARING BASED ON SELF-ORGANIZING NETWORKS	16/540656		US		
5971	WIRELESS LINK CONTROL AND RECOVERY USING POSITIONAL DATA	16/542310		US		
5972	WIRELESS CIRCUITRY WITH SCALABLE ACCURACY	16/542821		US		
5973	APPARATUSES AND METHODS FOR SHIFTING A DIGITAL SIGNAL BY A SHIFT TIME TO PROVIDE A SHIFTED SIGNAL	16/543756		US		
5974	PROCESSING REQUESTS FOR MEASUREMENT OF SIGNAL QUALITY AT THE LOCATION OF A USER EQUIPMENT WITH MULTIPLE SIMS	16/546334		US		
5975	METHOD APPARATUS AND COMPUTER READABLE MEDIUM FOR SWITCHING BETWEEN LOWER ENERGY AND HIGHER ENERGY WIRELESS COMMUNICATION TECHNIQUES	16/548528		US		
5976	EVOLVED NODE-B SHARED SPECTRUM CONTROLLER AND METHOD FOR COMMUNICATION IN SHARED SPECTRUM	16/563766		US		
5977	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS AND DEVICES	16/584651		US		
5978	MEASUREMENT GAP REPETITION PATTERNS FOR INTER-FREQUENCY OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	16/595637		US		
5979	CHANNEL DESIGN FOR ENHANCED MACHINE TYPE COMMUNICATION IN AN UNLICENSED SPECTRUM (eMTC-U) SYSTEM	16/603914		US	10/9/2019	
5980	MULTEFIRE DESIGN OF RANDOM ACCESS CHANNEL AND RANDOM ACCESS CHANNEL PROCEDURE FOR INTERNET OF THINGS DEVICE OPERATION IN UNLICENSED SPECTRUM	16/604047		US	10/9/2019	
5981	CONFIGURATION OF GRANT-LESS UPLINK TRANSMISSIONS FOR A USER EQUIPMENT	16/604141		US	10/9/2019	

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
5982	MEASUREMENT CONFIGURATION TECHNIQUES FOR WIDEBAND COVERAGE ENHANCEMENT (WCE)-CAPABLE DEVICES	16/604836		US	10/11/2019	
5983	MEASUREMENT DESIGN FOR NEXT RADIO (NR) AND LONG TERM EVOLUTION (LTE)	16/604982		US	10/11/2019	
5984	BANDWIDTH UTILIZATION DURING SILENCE FRAMES	16/605681		US	10/16/2019	
5985	DOWNLINK CONTROL INFORMATION (DCI) FORMAT FOR GRANT-LESS UPLINK TRANSMISSION (GUL)	16/605784		US	10/16/2019	
5986	Access Control for User Equipment with Coverage Enhancement Level Support	16/609312		US	10/29/2019	
5987	EMTC-U MEASUREMENT	16/611638		US	11/7/2019	
5988	SOUNDING REFERENCE SIGNAL SEQUENCE DESIGN	16/612333		US	11/8/2019	
5989	PER UE NETWORK CONTROLLED SMALL GAP (NCSG) SIGNALLING	16/613541		US	11/14/2019	
5990	CONFIGURABILITY AND SIGNALING FOR HALF-TONE SHIFT	16/614106		US	11/15/2019	
5991	DEVICES AND METHODS FOR UE-SPECIFIC RAN-CN ASSOCIATIONS	16/615054		US	11/19/2019	
5992	DEVICES AND METHODS FOR FLOW-CONTROL TRIGGERING AND FEEDBACK	16/615337		US	11/20/2019	
5993	FREQUENCY DOMAIN RESOURCE ALLOCATION FOR DOWNLINK (DL) AND UPLINK (UL) IN NEW RADIO (NR)	16/616487		US	11/24/2019	
5994	COMMON-MODE FEEDBACK CIRCUIT	61/423862		US		
5995	SYSTEM METHOD AND E2E ARCHITECTURE FOR DCR MODE	61/553647		US		
5996	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	61/821635		US		
5997	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	61/824337		US		
5998	COMMUNICATION DEVICE AND METHOD FOR PERFORMING RADIO COMMUNICATION	61/827029		US		
5999	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	61/829970		US		
6000	ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES	61/883731		US		
6001	RACH FOR DUAL CONNECTIVITY	61/933839		US		
6002	ONE METHOD OF INTER FREQUENCY MEASUREMENT	61/933843		US		
6003	MULTI-RAT CONTROLLER SUPPORT FOR WLAN	61/933846		US		
6004	EFFICIENT RECEIVER YIELDING FOR DISTRIBUTED D2D	61/933852		US		
6005	WLAN SECURITY FOR INTEGRATED ENB/AP	61/933854		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6006	METHOD FOR ENABLING COEXISTENCE BETWEEN LTE AND WIFI IN THE SAME UNLICENSED BAND	61/933856		US		
6007	ENABLING D2D FUNCTIONALITY FOR PUBLIC SAFETY APPLICATIONS	61/933858		US		
6008	MULTIPLE MEASUREMENT GAPS SCHEMES FOR INTER-FREQUENCY SCENARIOS IN LTE NETWORKS	61/933860		US		
6009	APPLICATION BASED CONGESTION CONTROL PER APN	61/933866		US		
6010	TRANSMIT POWER CONTROL FOR D2D TRANSMISSIONS	61/933873		US		
6011	CONSIDERATION ON TRANSMISSION OF LTE-U CHANNEL RESERVATION SIGNAL	61/933879		US		
6012	RF PROTECTION CLASSES FOR SOFTWARE COMPONENTS IN MOBILE DEVICE PLATFORMS	61/943948		US		
6013	INTRODUCING UE STATIONARY IN LTE NETWORKS	61/943978		US		
6014	CONVEYING RA-RNTI IN PDCCH-LESS OPERATION	61/943979		US		
6015	DL SCHEDULING AND HARQ ACK/NACK FEEDBACK ON LTE-U	61/943981		US		
6016	MULTIPLE MEASUREMENT GAPS SCHEMES ACROSS MULTIPLE RF CHAINS IN LTE NETWORKS	61/943982		US		
6017	GAP SIZE AND CYCLIC PREFIX LENGTH INDICATION FOR D2D DISCOVERY AND DATA COMMUNICATION	61/953622		US		
6018	OPPORTUNISTIC NETWORKING SUPPORT FOR LTE CELLULAR SYSTEM	61/953634		US		
6019	NOVEL MECHANISM FOR D2D COMMUNICATION MODE SELECTION IN REL-12	61/953645		US		
6020	METHODS TO CONVEY APPLICATION COMMUNICATIONS PATTERN FROM EXTERNAL APPLICATION SERVERS TO 3GPP SYSTEMS FOR EFFICIENT RAN/CN RESOURCE MANAGEMENT	61/953649		US		
6021	ATTENDED VS UNATTENDED SERVICES TO ASSIST NETWORK ON TRAFFIC CLASSIFICATION	61/953662		US		
6022	LOW ENERGY BLUETOOTH APPLICATION SERVICE PLATFORM	61/954418		US		
6023	SMALL CELL DISCOVERY SIGNAL	61/968278		US		
6024	MCS SIGNALING FOR COMMON CONTROL CHANNEL CONFIGURED WITH 256 QAM MODULATION	61/968283		US		
6025	FINE TIMING MEASUREMENT BURST MANAGEMENT	61/968630		US		
6026	WLAN AUTHENTICATION AND ENCRYPTION OPTIONS FOR INTEGRATED LTE/WLAN RATS	61/969780		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6027	METHOD FOR DIFFERENTIATION OF PAYLOAD SIZE FOR D2D DISCOVERY	61/969781		US		
6028	CO-EXISTENCE BETWEEN RAN SOLUTIONS AND ANDSF POLICIES FOR WLAN INTERWORKING	61/969785		US		
6029	APPLICATION SPECIFIC HANDOVER	61/984673		US		
6030	ONE POSITIONING METHOD OF D2D	61/985338		US		
6031	FAIRNESS MANAGEMENT FOR DISTRIBUTED D2D	61/985342		US		
6032	SOLUTIONS FOR DYNAMIC DECLARATION OF CONFORMITY (DOC) AND CERTIFICATION UNDER THE NEW RADIO EQUIPMENT DIRECTIVE	61/985343		US		
6033	LOCAL CHANNEL RESERVATION FOR LTE OPERATION IN THE UNLICENSED SPECTRUM	61/985346		US		
6034	MULTIPLE EVENTS FOR MEASUREMENT REPORTING	61/985350		US		
6035	HANDLING OF SIMULTANEOUS SR TRANSMISSION IN DUAL CONNECTIVITY	61/985352		US		
6036	REFERENCE SIGNAL ENHANCEMENT FOR SHARED CELL ID SCENARIO	61/985355		US		
6037	NOMA FOR FUTURE WIRELESS SYSTEMS	61/985383		US		
6038	SOLUTION TO SKIP AUTHENTICATION PROCEDURE DURING CSFB TO SHORTEN CALL SETUP TIME	61/985386		US		
6039	CELL SPECIFIC LOAD BALANCING BASED ON UE SPEED	61/985387		US		
6040	ADAPTIVE LBT BASED ON SENSING ENVIRONMENT LEARNING	61/985389		US		
6041	One New Measurement Method of RSRQ	61/985390		US		
6042	COST SAVING IN SOFT BUFFER SIZE FOR LOW COST MTC	61/985391		US		
6043	METHOD AND SYSTEM TO MEASURE WLAN OPACKET ERROR RATE	61/985396		US		
6044	X2 TUNNELING FOR RESILIENT ENB OPERATION	61/985401		US		
6045	LAWFUL INTERCEPT REPORTING WITH PUBLIC SAFETY RELAYS	61/990608		US		
6046	NOVEL SYNCHRONIZATION SOURCE SELECTION METHOD FOR SUPPORT OF D2D COMMUNICATION RAN1	61/990615		US		
6047	DMRS DESIGN FOR D2D DISCOVERY RAN 1	61/990643		US		
6048	MEASUREMENT GAP DESIGN FOR UNUSED RF CHAIN IN SINGLE CHIP RF-IC	61/990646		US		
6049	PRIORITIZED CELL IDENTIFICATION AND MEASUREMENT METHOD	61/990647		US		
6050	CELL SELECTION AND RESELECTION PROCEDURE BASED ON PRIORITIZED NODES	61/990650		US		

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6051	MEASUREMENT PRIORITY FOR INTER-FREQUENCY MEASUREMENTS	61/990674		US		
6052	Multiple aligned gap for dual connectivity in LTE	61/990675		US		
6053	One measurement method of LTE dual connectivity	61/990682		US		
6054	PROCEDURES TO INDICATE UE PSM (POWER SAVING MODE) CONFIGURATION TO RAN NODES	61/990684		US		
6055	3GPP SYSTEM OPTIMIZATIONS TO SUPPORT LARGE NUMBER OF MTC DEVICES	61/990686		US		
6056	TENTATIVE GRANT FOR EFFICIENT D2D COMMUNICATION	61/990688		US		
6057	WLAN INTERWORKING COORDINATION BETWEEN LTE AND UMTS	61/990689		US		
6058	CROSS CARRIER HARQ RETRANSMISSION IN LTE-U RAN1	61/990692		US		
6059	STAGE-2 AND STAGE-3 DETAILS OF UMTS/WLAN RADIO INTERWORKING	61/990693		US		
6060	STAGE-2 AND STAGE-3 DETAILS OF LTE/WLAN RADIO INTERNETWORKING	61/990694		US		
6061	5G METHODS FOR IMPROVING THE COVERAGE IN HIGHER CARRIER FREQUENCY	62/006729		US		
6062	RAN1 APERIODIC BEACON SIGNAL TRANSMISSION FOR LTE-U	62/016001		US		
6063	RAN1 TRANSMISSION OF DISCOVERY SIGNAL ON LTE-U	62/016006		US		
6064	METHOD TO PREVENT A UE FROM REPEATING A REQUEST TOWARDS A MOBILE NETWORK	62/019295		US		
6065	ENHANCING QUALITY OF SERVICE ARCHITECTURE FOR LTE	62/019308		US		
6066	SECURE AND EFFICIENT PUBLIC SAFETY OPERATION IN PRESENCE OF ALG RELAY	62/019309		US		
6067	SYSTEM AND METHOD ON MEASUREMENT REPORT FOR LTE UNLICENSED SYSTEM	62/020316		US		
6068	LTE ENHANCEMENTS ON PAGING MECHANISM FOR LOW COMPLEXITY UES	62/020318		US		
6069	PRINCIPAL EIGEN BEAM QUANTIZATION METHOD FOR FD-MIMO SYSTEMS	62/024343		US		
6070	SYSTEM AND METHOD FOR PREVENTION OF REPEATED REQUESTS	62/027112		US		
6071	METHOD FOR RETRIEVING AND UTILIZING NEIGHBORING WLAN INFORMATION FOR LTE LAA OPERATION	62/027141		US		
6072	NEIGHBOR CELL SYSTEM INFORMATION PROVISIONING	62/027181		US		

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6073	LIGHTWEIGHT OVER-THE-AIR SIGNALLING MECHANISMS FOR DATA COMMUNICATION IN 3GPP SYSTEMS	62/027765		US		
6074	USAGE AND CONFIGURATION OF DIFFERENT CELL BARRING TIMES	62/029944		US		
6075	METHODS APPARATUSES AND SYSTEMS FOR MACHINE-TYPE COMMUNICATION WITH NARROWBAND DEPLOYMENT	62/032436		US		
6076	METHODS TO CONTROL TRAFFIC FROM APPLICATIONS WHEN THIRD PARTY SERVERS ENCOUNTER PROBLEMS	62/034704		US		
6077	PROXIMITY SERVICE FOR MULTI- CARRIER CAPABLE UE	62/034705		US		
6078	LOAD BALANCING SCHEMES FOR IDLE MODE UE	62/035924		US		
6079	LOW LATENCY FRAME DESIGN FOR UPLINK AND HARQ TRANSMISSIONS IN FDD LTE	62/036523		US		
6080	SYSTEM AND METHOD FOR PREVENTION OF REPEATED REQUESTS	62/036957		US		
6081	METHOD AND SYSTEM OF VNF LIFECYCLE MANAGEMENT TRIGGERED BY EM OR VNFM IN 3GPP MANAGEMENT FRAMEWORK	62/037998		US		
6082	OPTIMIZATIONS FOR SIGNALING OF UE RADIO CAPABILITY INFORMATION	62/038001		US		
6083	FRONT HAUL COMPRESSION METHOD FOR CLOUD RADIO ACCESS NETWORK (RAN) ARCHITECTURE	62/048730		US		
6084	MILLIMETER WAVE CARRIER AGGREGATION FOR MULTI-HOP RELAY BACKHAULING	62/050578		US		
6085	SYSTEM AND METHOD ASSOCIATED WITH EFFICIENT OPERATIONS FOR MTC APPLICATION	62/055434		US		
6086	ON THE TRANSMISSION OF COMMON CONTROL MESSAGES FOR MTC UES WITH REDUCED BANDWIDTH	62/055515		US		
6087	3D CODEBOOK FOR FULL DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT (FD- MIMO) COMMUNICATIONS	62/055569		US		
6088	USER PREFERENCES FOR OPERATOR AND NON-OPERATOR DEPLOYED WLAN	62/055594		US		
6089	SYSTEM AND METHOD ASSOCIATED WITH HANDLING UPLINK TRANSMISSION COLLISION FOR MTC UES IN ENHANCED COVERAGE MODE	62/055596		US		
6090	SIGNALING FOR DEFAULT CONFIGURATION FOR INCREASED CARRIER MONITORING	62/056289		US		
6091	METHOD FOR EFFICIENT MOBILE COMMUNICATION IN MACRO-CELL ASSISTED SMALL CELL NETWORKS	62/058619		US		

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6092	SYSTEM AND METHOD FOR VNF INSTANTIATION TERMINATION EXPANSION AND CONTRACTION	62/059022		US		
6093	NOTIFICATION OF CIRCUIT-SWITCHED (CS) CALL TYPE FOR CIRCUIT-SWITCHED FALLBACK (CSFB)	62/059739		US		
6094	DOWNLINK CONTROL INFORMATION (DCI) DESIGN FOR LTE DEVICES	62/059749		US		
6095	OPPORTUNISTIC SIGNAL TRANSMISSION FOR INTER-RAT CO-EXISTENCE	62/060420		US		
6096	MECHANISM TO SEPARATE THE PAGING OPERATION OF COVERAGE CONSTRAINED DEVICES FROM THAT OF REGULAR UES	62/060423		US		
6097	ENABLERS FOR NETWORK FUNCTION VIRTUALIZATION (NFV) IN 3GPP	62/060951		US		
6098	METHOD AND APPARATUS OF WLAN ALARM NOTIFICATIONS FOR WLAN OFFLOADING IN 3GPP CELLULAR NETWORKS	62/062711		US		
6099	METHOD AND APPARATUS FOR CARRIAGE OF VIDEO QUALITY METADATA IN MPEG-TS MEDIA FILES	62/063845		US		
6100	UL TRAFFIC CONTROL METHOD IN TIGHTLY INTEGRATED WIFI/LTE	62/064284		US		
6101	SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAULING TO SUPPORT DYNAMIC ROUTING AND COOPERATIVE TRANSMISSION	62/066787		US		
6102	SELF-ORGANIZED MULTI-HOP MILLIMETER WAVE BACKHAULING TO SUPPORT DYNAMIC ROUTING AND COOPERATIVE TRANSMISSION	62/067179		US		
6103	ARCHITECTURE FOR BEARER SPLITTING IN RAN ANCHORED WLAN SYSTEMS	62/067636		US		
6104	METHODS AND PROCEDURES FOR CONNECTION CONTROL OF MTC AND OTHER MOBILE DATA APPLICATIONS IN 3GPP SYSTEMS	62/067659		US		
6105	METHODS FOR PROBABILISTIC TRANSMISSIONS FOR D2D DISCOVERY	62/069711		US		
6106	SYSTEM AND METHOD ON MEASUREMENT REPORT FOR LTE UNLICENSED SYSTEM	62/072861		US		
6107	ON HANDLING PUCCH AND PHICH RESOURCE COLLISION FOR ASYMMETRIC MTC REGION PAIRS	62/074296		US		
6108	ON EPDCCH ENHANCEMENT FOR MTC UES WITH REDUCED BANDWIDTH	62/075426		US		
6109	RAN ARCHITECTURE FOR LTE/WLAN AGGREGATION NON-COLLOCATED DEPLOYMENT	62/075710		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6110	SYSTEM AND METHODS FOR CSI MEASUREMENTS FOR MTC UES WITH REDUCED UE BANDWIDTH SUPPORT	62/075722		US		
6111	METHODS FOR SUPPORT OF EARLY TERMINATION OF REPEATED TRANSMISSIONS FOR MTC UES IN ENHANCED COVERAGE MODE	62/076198		US		
6112	EPDCCH-BASED DL CONTROL CHANNEL WITH CROSS-SUBFRAME SCHEDULING FOR MTC UES WITH REDUCED BW SUPPORT	62/076359		US		
6113	LICENSED ASSIST ACCESS (LAA) OPERATION WITH DYNAMIC UPLINK AND DOWNLINK TRANSMISSION	62/076364		US		
6114	RAN PAGING MECHANISM TO ENABLE ENHANCED COVERAGE MODE	62/076382		US		
6115	NETWORK ASSISTED DOMAIN SELECTION	62/080869		US		
6116	LISTEN BEFORE TALK FOR UPLINK LTE LICENSED ASSISTED ACCESS	62/080913		US		
6117	INCMON FEATURE UE BEHAVIOUR	62/082004		US		
6118	CHANNEL STATE COMMUNICATION	62/083103		US		
6119	INTERACTIVE ZOOMING IN MULTIMEDIA TELEPHONY SERVICES	62/088283		US		
6120	RS PRESENCE DETECTION BASED LAA AND RS SEQUENCE DESIGN	62/091950		US		
6121	METHOD ON JOINT PROCESSING OF TRANSPORT BLOCKS ON MULTIPLE COMPONENT CARRIERS FOR CA AND LAA	62/095217		US		
6122	NETWORK-INITIATED DISCOVERY AND PATH SELECTION PROCEDURES FOR MULTI-HOP D2D/IOT UNDERLAY NETWORK	62/097456		US		
6123	METHOD AND SYSTEM TO MEASURE VNF AND NFVI PERFORMANCE MEASUREMENTS	62/102991		US		
6124	PUBLIC SAFETY DISCOVERY AND COMMUNICATION USING A UE-TO-UE RELAY	62/103754		US		
6125	LSA MANAGEMENT FOR DISTRIBUTED INFORMATION STORAGE	62/104251		US		
6126	SUPPORT OF NON-IP BASED COMMUNICATION OVER LTE DEVICE-TO-DEVICE INTERFACE	62/105000		US		
6127	NOVEL HARQ-ACK FEEDBACK SCHEME ON PUSCH IN WIRELESS COMMUNICATION SYSTEMS	62/105850		US		
6128	METHODS FOR APPLICATION SPECIFIC CONGESTION CONTROL FOR DATA COMMUNICATIONS	62/106431		US		
6129	NOVEL METHOD FOR (e)PDCCH MONITORING IN WIRELESS COMMUNICATION SYSTEM	62/106473		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6130	OTDOA POSITIONING ENHANCEMENT BY USING HETEROGENEOUS REFERENCE SIGNALS	62/107627		US		
6131	METHOD TO IMPROVE THE POSITIONING ACCURACY IN HORIZONTAL AND VERTICAL DOMAIN	62/107665		US		
6132	ON THE TRANSMISSION OF LAA BURST CONTROL INFORMATION	62/108661		US		
6133	CARRIER AGGREGATION ENHANCEMENTS FOR UNLICENSED SPECTRUM AND 5G	62/109168		US		
6134	SYSTEM AND METHODS FOR PRECODED TRANSMISSIONS FOR NARROWBAND TRANSMISSIONS WITHIN WIDER SYSTEM BANDWIDTH	62/109342		US		
6135	SYSTEM AND METHODS FOR SUPPORT OF FREQUENCY HOPPING FOR UES WITH REDUCED BANDWIDTH SUPPORT	62/109382		US		
6136	RADIO RESOURCE MANAGEMENT REPORTING FOR LICENSED ASSISTED ACCESS	62/109497		US		
6137	PAGING PROCEDURES FOR EXTENDED COVERAGE OPERATION	62/109501		US		
6138	TYPE 2 PHR REPORTING IN PUCCH FORMAT 1B WITH CHANNEL SELECTION	62/109503		US		
6139	UPLINK SCHEDULING AND HARQ FOR LICENSED-ASSISTED ACCESS USING LTE	62/110185		US		
6140	WLAN TIME-OF-FLIGHT BASED POSITIONING FOR LTE LPP/LPPE	62/112928		US		
6141	UNIFIED FLEXIBLE 5G NEW AIR INTERFACE DESIGN	62/114733		US		
6142	METHOD OF AGGREGATING AN EMBMS SERVICE (TMGI) OVER MULTIPLE FREQUENCY CARRIERS	62/115498		US		
6143	SYSTEM AND METHOD FOR MULTI-RAT COORDINATION FOR 5G SYSTEM	62/121118		US		
6144	OPPORTUNISTIC ACCESS OF 5G MMWAVE RAT BASED ON EDGE CLOUD MOBILE PROXY	62/128009		US		
6145	STATEFUL UE-TO-UE RELAY FOR PUBLIC SAFETY	62/130893		US		
6146	SELECTIVE IP TRAFFIC OFFLOAD WITH DUAL CONNECTIVITY	62/130991		US		
6147	SECURITY FOR PUBLIC SAFETY DISCOVERY AND ONE-TO-ONE DIRECT COMMUNICATION	62/132973		US		
6148	METHOD AND APPARATUS OF MME OVERLOAD OR UNDERLOAD MITIGATION BY MME VNF IN THE LTE NETWORKS	62/133023		US		
6149	METHOD AND APPARATUS TO PROVISION AND ADD AN CELLULAR IOT DEVICE TO THE CLOUD SERVICE PROVIDER NETWORK	62/134975		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6150	SYSTEM AND METHOD ON CONNECTION-LESS UPLINK TRANSMISSION FOR MTC	62/138635		US		
6151	QUASI-ORTHOGONAL MULTIPLE ACCESS	62/138892		US		
6152	ON PRS ENHANCEMENT	62/144779		US		
6153	UPLINK TRANSMISSION FOR LICENSED ASSISTED ACCESS	62/144832		US		
6154	CELL SPEC MG	62/145318		US		
6155	RANDOM ACCESS PROCEDURE FOR ENHANCED COVERAGE SUPPORT	62/145335		US		
6156	EFFICIENT MECHANISMS FOR UE CONTROLLED MOBILITY IN AN EVOLVED RADIO ACCESS NETWORK	62/145370		US		
6157	ENHANCEMENTS TO EPDCCH-BASED PHYSICAL DOWNLINK CONTROL CHANNEL FOR MTC	62/145378		US		
6158	CELL SPEC LOAD BALANCING	62/145394		US		
6159	CAPABILITY CELL SPEC MEASUREMENT GAP	62/145414		US		
6160	PHYSICAL LAYER DETAILS AND PROTOCOL DESIGN FOR CONNECTION-LESS TRANSMISSIONS OF SMALL DATA PACKETS FOR MACHINE-TYPE COMMUNICATION UPLINK	62/147985		US		
6161	TRANSMISSION SCHEME FOR 5G FLEXIBLE RAT	62/150988		US		
6162	PAGING ENHANCEMENT METHODS FOR EXTENDED DRX CYCLE IN CELLULAR SYSTEMS	62/159699		US		
6163	NOVEL APERIODIC CHANNEL STATE INFORMATION FEEDBACK TRIGGERING METHOD FOR CARRIER AGGREGATION SYSTEM IN REL-13	62/160356		US		
6164	PUSCH FRAME DESIGN AND OPERATION FOR LOW LATENCY USING LISTEN BEFORE TALK APPROACH	62/161587		US		
6165	METHODS FOR UE-TO-NW RELAY INITIATION CONFIGURATION AND SELECTION CONTROL	62/161761		US		
6166	3GPP SA5 ARCHITECTURE INCLUDING LSA AND SAS FEATURES	62/161762		US		
6167	ONE NEW MEASUREMENT METHOD IN CA AND DUAL CONNECTIVITY	62/161765		US		
6168	ONE METHOD OF MEASUREMENT GAP ENHANCEMENT TO REDUCE THE MEASUREMENT DELAY	62/161772		US		
6169	METHOD OF MEASUREMENT GAP CONFIGURATION IN DUAL CONNECTIVITY ENHANCEMENT	62/161779		US		
6170	SECONDARY CELL BECOMES PRIMARY CELL IN CARRIER AGGREGATION AND DUAL CONNECTIVITY SCENARIOS	62/161785		US		
6171	AT COMMANDS FOR WLAN OFFLOAD	62/163213		US		
6172	SEAMLESS MOBILITY FOR 5G AND LTE SYSTEMS	62/168245		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6173	LEAN COMMON CHANNEL DESIGN	62/174140		US		
6174	DYNAMIC ADAPTIVE STREAMING OVER HTTP	62/180520		US		
6175	DYNAMIC ADAPTIVE STREAMING OVER HTTP (DASH)	62/180530		US		
6176	NOVEL DESIGN FOR LATENCY REDUCTION USING PUCCH	62/181581		US		
6177	SYSTEM AND METHOD FOR UPLINK ACK/NACK RESOURCE COLLISION REDUCTION IN FD-MIMO SYSTEM	62/181652		US		
6178	ENHANCEMENTS TO RAN NODE TO SUPPORT V2X SERVICES IN LTE/5G	62/183936		US		
6179	SYSTEM AND METHOD ON DYNAMIC RESOURCE ALLOCATION OF PARTITIONS FOR 5G	62/184435		US		
6180	DISTRIBUTED LINK SCHEDULING ALGORITHM FOR DEVICE-TO-DEVICE (D2D) COMMUNICATION VIA POWER CONTROL	62/187071		US		
6181	MMWAVE FRAME STRUCTURE	62/190049		US		
6182	CONVERGENCE LAYER FOR 5G COMMUNICATION SYSTEMS	62/195620		US		
6183	LAYER 2 RELAY PROTOCOLS AND MOBILITY	62/196138		US		
6184	LTE/WLAN AGGREGATION (LWA) ABOVE PDCP WITH IP/IPSEC TUNNEL	62/196456		US		
6185	SYSTEM AND METHODS FOR SYSTEM OPERATION FOR NARROWBAND-LTE FOR CELLULAR IOT	62/197353		US		
6186	METHOD AND SYSTEM OF CONFIGURATION MANAGEMENT TO SUPPORT VMME INSTANTIATION AND TERMINATION	62/197447		US		
6187	DYNAMIC MILLIMETER WAVE PENCIL CELL MANAGEMENT IN THE SUPPORT OF MULTI-CONNECTIVITY AND MOBILITY	62/198247		US		
6188	OFDMA BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION ON A SHARED DATA CHANNEL	62/199058		US		
6189	SECURE FIRMWARE UPGRADE FOR CELLULAR IOT	62/199066		US		
6190	NOVEL PHYSICAL BROADCAST CHANNEL (PBCH) DESIGN FOR 5G SYSTEMS	62/199175		US		
6191	NETWORK DISCOVERY AND BEAM ACQUISITION IN 5G RAT BEAM CELL OPERATION	62/199893		US		
6192	DYNAMIC SPECTRUM ACCESS WITH FLEXIBLE BANDWIDTH FOR LICENSED SHARED ACCESS SYSTEMS	62/200924		US		
6193	SYSTEM AND METHOD FOR ULTRA-RELIABLE AND LOW LATENCY COMMUNICATIONS FOR RRC IDLE UE FOR 5G	62/201735		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6194	NOVEL METHOD AND SYSTEM FOR UCI TRANSMISSION ON PUSCH FOR CARRIER AGGREGATION	62/202363		US		
6195	UNAUTHENTICATED IMS EMERGENCY SESSION WITH PSAP CALLBACK NUMBER	62/202634		US		
6196	ENHANCED UE SOUNDING REFERENCE SIGNALING FOR UPLINK BEAM TRACKING AND DATA SCHEDULING IN 5G RAT BEAM CELL OPERATION	62/203300		US		
6197	CODEBOOK DESIGN FOR BEAMFORMED CSI-RS FOR FD-MIMO	62/203595		US		
6198	LTE-ASSISTED FINE TIME MEASUREMENTS OVER WI-FI NETWORKS	62/203621		US		
6199	NOVEL PUCCH FORMAT ADAPTION METHOD FOR CONTROL SIGNALING TRANSMISSION IN A COMMUNICATION SYSTEM	62/203673		US		
6200	METHODS FOR SIGNALLING OF ACDC BARRING INFORMATION	62/204228		US		
6201	MEASUREMENT SUBFRAME TO IMPROVE SYNCHRONIZATION AND MEASUREMENT ACCURACY AND DELAY	62/204246		US		
6202	ONE METHOD OF MEASUREMENT GAP ENHANCEMENT	62/204383		US		
6203	AGC SETTING FOR LAA SCELLS	62/204678		US		
6204	FALLBACK MECHANISM TO DETECT EC USAGE	62/204746		US		
6205	LIGHTWEIGHT S1-LITE PROTOCOL DESIGN FOR CELLULAR IOT	62/204848		US		
6206	UE CAPABILITY REPORT IN MOBILE COMMUNICATION SYSTEM	62/204850		US		
6207	ENERGY DETECTION THRESHOLD ADAPTATION FOR DL AND UL LBT IN LAA	62/204907		US		
6208	RECEIVED SIGNAL STRENGTH INDICATOR MEASUREMENT FOR LICENSED ASSISTED ACCESS	62/204929		US		
6209	CQI FEEDBACK AND RRM MEASUREMENTS WITH DYNAMIC POWER SHARING AMONG MULTIPLE LAA SCELLS FOR DL-ONLY TRANSMISSION	62/205535		US		
6210	BEAMFORMING TRAINING REFERENCE SIGNAL DESIGN FOR 5G SYSTEM	62/206427		US		
6211	DEVICE-TO-DEVICE (D2D) ASSISTED MACHINE-TYPE COMMUNICATION (MTC)	62/207759		US		
6212	ENABLING UE TRANSMIT BEAMFORMING USING PRACH FOR 5G SYSTEM	62/207762		US		
6213	DETAILED (STAGE-3) RRC DESIGN FOR LTE/WLAN AGGREGATION (LWA)	62/208186		US		
6214	BEARER BINDING IN PRESENCE OF UE-TO-NETWORK RELAY	62/209092		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6215	SOLUTION FOR NON-IP DATA TRANSMISSION FOR CIOT SYSTEMS USING SCEF	62/209591		US		
6216	DOWNLINK ASPECTS ON RECEIVING BEAMFORMING	62/210139		US		
6217	UE REPORTING SFN AND SUBFRAME OFFSET IN DC ENHANCEMENT	62/210717		US		
6218	MECHANISM TO INDICATE DOWNLINK AND UPLINK CONFIGURATION FOR 5G TDD SYSTEM	62/210752		US		
6219	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNEL IN 5G RAT BEAM CELL OPERATION	62/211257		US		
6220	DUAL CONNECTIVITY FOR RELIABILITY	62/212235		US		
6221	WIRELESS PERSONAL AREA NETWORK UNDERLAYING CELLULAR NETWORKS	62/212336		US		
6222	CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS	62/213568		US		
6223	ENHANCEMENT ON FLEXIBLE DUPLEX FOR 5G TDD SYSTEM	62/216917		US		
6224	RANDOM ACCESS PROCEDURE FOR BEAM BASED CELL-LESS OPERATION IN 5G RAT	62/216919		US		
6225	REFERENCE SIGNAL DESIGN FOR INITIAL ACQUISITION	62/217528		US		
6226	NOVEL UPLINK CONTROL INFORMATION TRANSMISSION METHOD IN WIRELESS COMMUNICATION	62/217532		US		
6227	SLICEABLE RADIO ACCESS NETWORK ARCHITECTURE FOR 5G WIRELESS COMMUNICATIONS	62/217536		US		
6228	AIR INTERFACE SLICING ARCHITECTURE FOR 5G WIRELESS COMMUNICATION SYSTEMS	62/217632		US		
6229	RADIO NETWORK ACCESS AND COMMUNICATION OF WEARABLE DEVICES	62/217635		US		
6230	UPLINK CONTROL INFORMATION TRANSMISSION IN WIRELESS COMMUNICATION	62/219950		US		
6231	UPLINK LICENSED ASSISTED ACCESS FOR PUSCH TRANSMISSIONS IN UNLICENSED BAND	62/232378		US		
6232	ON DETERMINATION OF NUMBER OF PUCCH REPETITIONS FOR MTC UES	62/232385		US		
6233	CONFIGURATION OF NON-UE-SPECIFIC SEARCH SPACE FOR M-PDCCH	62/232386		US		
6234	NOTIFICATION OF SYSTEM INFORMATION CHANGE FOR NARROWBAND SYSTEMS	62/232392		US		
6235	COMMON BROADCAST REGION OPERATION FOR NARROWBAND INTERNET OF THINGS SYSTEMS	62/233890		US		
6236	USING VNF AND VR PERFORMANCE DATA TO IMPROVE BNF	62/235372		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
	PERFORMANCE					
6237	MAPPING OF PBCH REPETITION SYMBOLS FOR MTC	62/235760		US		
6238	STATE HANDLING FOR NON-EPS SERVICES	62/236725		US		
6239	PAGING OPTIMIZATION USING LOCATION REPORTING MONITORING EVENT	62/236786		US		
6240	RRM REQUIREMENT FOR D2D INTER-CARRIER DISCOVERY GAP	62/237335		US		
6241	DUAL RADIO OPERATION BETWEEN ACCESS SYSTEMS USING 3GPP RADIO ACCESS TECHNOLOGY	62/238064		US		
6242	BEARER-LESS MODEL FOR 5G EVOLVED PACKET SYSTEM	62/238072		US		
6243	DYNAMICALLY BEAMFORMED PDCCH DESIGN FOR BEAMFORMED CELL	62/238606		US		
6244	ENHANCEMENT ON SELF-CONTAINED TDD SUBFRAME STRUCTURE	62/239044		US		
6245	SIGNALING METHODS FOR FLEXIBLE RADIO RESOURCE MANAGEMENT	62/239213		US		
6246	NETWORK INITIATED PACKET DATA NETWORK CONNECTION IN 5G EVOLVED PACKET SYSTEM	62/239750		US		
6247	CSI FEEDBACK CHANNEL	62/242245		US		
6248	SAS INTERFERENCE MITIGATION OPTIONS	62/242872		US		
6249	NOVEL RESOURCE MAPPING SCHEME FOR 5G CONTROL CHANNEL	62/242938		US		
6250	DMRS DESIGN FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEM	62/242952		US		
6251	FLEXIBLE UNIVERSAL 5G FRAME STRUCTURE	62/242958		US		
6252	CONTENTION WINDOW SIZE ADAPTATION	62/243984		US		
6253	BEAM FORMING REFERENCE SIGNAL RECEIVING POWER REPORT	62/244609		US		
6254	GENERATION OF SSS/RS IN DRS OF LAA AND STANDALONE LTE UNLICENSED SYSTEMS	62/246264		US		
6255	BEAM REFINEMENT REFERENCE SIGNAL DESIGN FOR RECEPTION OF BEAMFORMING	62/246402		US		
6256	DISTINGUISHING SUBFRAMES WITH DIFFERENT CRS/CSI-RS TRANSMISSION POWER IN LAA SYSTEMS	62/246454		US		
6257	INTRA-PAN COMMUNICATION ARCHITECTURE FOR 5G LTE-WEARABLES	62/247052		US		
6258	ASPECTS ON SLICE-BASED OPERATION IN 5G NETWORKS WITH END-TO-END NETWORK SLICING	62/247664		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6259	DESIGN AND TRANSMISSION OF (E)PDCCH WITHIN PARTIAL SUBFRAME IN LICENSED ASSISTED ACCESS	62/247877		US		
6260	RESTORING VNF PERFORMANCE VIA VNF RESET OF LIFECYCLE MANAGEMENT	62/249769		US		
6261	SECURE CONNECTION OF CELLULAR M2M/IOT DEVICE WITHOUT USING 3G CORE NETWORK	62/249824		US		
6262	RAN RE-ARCHITECTURE FOR NETWORK SLICING	62/250447		US		
6263	SHORTENED TTI TRANSMISSION	62/250448		US		
6264	LISTEN BEFORE TALK FOR DISCOVERY REFERENCE SIGNAL TRANSMISSION IN UNLICENSED SPECTRUM	62/251566		US		
6265	SYNCHRONIZATION SIGNAL DESIGN FOR NB-IOT	62/252362		US		
6266	CSI MEASUREMENTS AND CSI REPORTING IN LAA	62/252365		US		
6267	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENT FOR NARROW BAND MTC	62/252983		US		
6268	METHOD AND APPARATUS FOR CELL DEPLOYMENT AND RECEIVER SIGNAL PROCESSING FOR HIGH SPEED MOBILE SCENARIOS	62/253056		US		
6269	REGULAR FIFTH GENERATION ORTHOGONAL FREQUENCY DEMODULATION TIME GRID WITH EMBEDDED TIME DIVISION DUPLEX SWITCHING INTERVALS	62/254614		US		
6270	RATE-COMPATIBLE OPERATION WITH LDPC CODES	62/258918		US		
6271	MECHANISMS TO ACHIEVE COEXISTENCE OF LOW LATENCY AND HIGH THROUGHPUT SUBFRAME STRUCTURE	62/259994		US		
6272	MILLIMETER WAVE BROADCAST AND UNICAST CHANNEL DESIGN AND GENERIC TRANSMIT ARCHITECTURE	62/261734		US		
6273	SYSTEM AND METHOD FOR DOWNLINK CONTROL INDICATOR DESIGN IN BEAM AGGREGATION SYSTEM	62/262304		US		
6274	CSI-RS SIGNAL GENERATION WITH REDUCED OFDM SYMBOLS	62/264206		US		
6275	MULTI-SUBFRAME SCHEDULING FOR UL TRANSMISSION IN UNLICENSED SPECTRUM	62/264226		US		
6276	MOBILITY ENHANCEMENT AND THE PATH SELECTION FOR THE WEARABLE DEVICE	62/264231		US		
6277	CONTROL SIGNALING IN DUAL BEAM OPERATION	62/264749		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6278	CONNECTING NON-3GPP ACCESS TO A COMMON CORE NETWORK USING AN ACCESS-INDEPENDENT INTERFACE	62/265306		US		
6279	DOWNLINK REACHABILITY FOR ULTRA LOW POWER SAVING DEVICES USING D2D	62/265310		US		
6280	HORIZONTAL NETWORK SLICING	62/265699		US		
6281	MACHINE TYPE COMMUNICATIONS USER EQUIPMENT WITH SCALABLE BANDWIDTH SUPPORT	62/268861		US		
6282	OFDMA BASED MULTIPLEXING OF UPLINK CONTROL INFORMATION ON A SHARED DATA CHANNEL	62/269363		US		
6283	MULTIPLEXING OF CONTROL SIGNALING AND DATA TRANSMISSION IN ENHANCED FRAME STRUCTURES	62/270933		US		
6284	LOW-DENSITY PARITY-CHECK CODE MATRICES FOR 5G APPLICATIONS	62/274545		US		
6285	ON THE DETERMINATION OF XPUCCH RESOURCE	62/274560		US		
6286	OPTIONS FOR NB-IOT SYNCHRONIZATION SIGNAL DESIGN	62/276482		US		
6287	DETECTING VIRTUALIZED RESOURCES PERFORMANCE ALARMS	62/276489		US		
6288	VNF INSTANTIATION AND TERMINATION	62/276527		US		
6289	CONTROL CHANNEL TRANSMISSION FOR NARROWBAND INTERNET-OF-THINGS SYSTEMS	62/277401		US		
6290	DYNAMIC HARQ CONFIGURATION AND BITMAP-BASED PROCESS ASSOCIATION	62/277809		US		
6291	LDPC PUNCTURING PATTERN SELECTION	62/278742		US		
6292	NB-IOT SYNCHRONIZATION SIGNAL DESIGN	62/279367		US		
6293	NETWORK SLICE SELECTION IN 3GPP AND 5G SYSTEMS	62/279494		US		
6294	SCHEDULING SELF-CONTAINED TRANSMISSION SCHEME FOR 5G	62/279548		US		
6295	SUBFRAME STRUCTURE TO ENABLE LOW LATENCY TRANSMISSION FOR 5G FDD SYSTEM	62/279568		US		
6296	ON THE UPLINK REQUEST IN 5G SYSTEM	62/280574		US		
6297	DRS TRANSMISSION WINDOW AND THE POSITION IDENTIFICATION FROM UE PERSPECTIVE	62/281035		US		
6298	INFORMATION TRANSMISSION IN STAND-ALONE MMWAVE SYSTEM	62/287250		US		
6299	RESOURCE MAPPING AND TRANSMISSION SCHEME OF BRS AND XPBCH FOR 5G SYSTEM	62/287791		US		
6300	UPLINK BEAM REFINEMENT	62/288309		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6301	LIMITED BUFFER RATE-MATCHING AND REDUNDANCY VERSIONS WITH LDPC BASED HARQ	62/288936		US		
6302	RESOURCE ALLOCATION IN A LOW LATENCY WIRELESS SYSTEM	62/290281		US		
6303	LOW LATENCY OPERATION IN A WIRELESS COMMUNICATION SYSTEM	62/290283		US		
6304	RANDOM ACCESS PROCEDURE OPERATING IN UNLICENSED SPECTRUM	62/290289		US		
6305	DYNAMIC RESOURCE ALLOCATION AND TRANSMISSION SCHEME FOR XPUCCH	62/290791		US		
6306	PDSCH TRANSMISSION WITH SHORT TTI	62/290865		US		
6307	RESOURCE ALLOCATION SCHEME FOR BEAMFORMING REFERENCE SIGNAL FOR 5G SYSTEM	62/290871		US		
6308	SENSING-BASED COLLISION AVOIDANCE FOR LTE VEHICLE-TO-VEHICLE COMMUNICATION	62/291425		US		
6309	UL CROSS-TXOP SCHEDULING	62/291426		US		
6310	UPLINK DM-RS TRANSMISSION FOR PUSCH WITH SHORTENED TTI	62/291634		US		
6311	GEO-BASED COLLISION AVOIDANCE FOR V2V COMMUNICATION	62/291839		US		
6312	SRS RELATED DESIGN CONSIDERATIONS TO SUPPORT UL ACCESS FOR ELAA	62/291840		US		
6313	RX-TX TIME DIFFERENCE REPORT IN TDD SYSTEMS	62/292724		US		
6314	RRC CONNECTION RE-ESTABLISHMENT AND RECOVERY PROCEDURE UPON RLF FOR MULTIFIRE NETWORK IN NEUTRAL HOST MODE	62/293281		US		
6315	SPREADING OPTIONS FOR NON-ORTHOGONAL MULTIPLE ACCESS	62/293285		US		
6316	SCHEDULING REQUEST DESIGN FOR STANDALONE DEPLOYMENT IN MMWAVE SYSTEM	62/294095		US		
6317	APPARATUSES AND METHODS TO REDUCE HANDOVER INTERRUPTION TIME	62/294618		US		
6318	USER EQUIPMENT PROCEDURES FOR REDUCING HANDOVER INTERRUPTION TIME	62/294623		US		
6319	SOURCE ENB HANDLING TO REDUCE HANDOVER INTERRUPTION TIME	62/294858		US		
6320	SIGNALING FOR ENHANCED MEASUREMENT GAP FOR SYNCHRONOUS NETWORK	62/294862		US		
6321	SUPPORTING SPS IN SHORT TTI COEXISTENCE SCENARIOS	62/294866		US		
6322	SIGNALING FOR PER-CC BASED ENHANCED MEASUREMENT GAP CONFIGURATION	62/294867		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6323	A MULTIPLEXING SCHEME FOR UPLINK CONTROL INFORMATION AND DATA ON 5G PUSCH	62/295927		US		
6324	SYSTEMS AND METHOD FOR CSI-RS	62/297040		US		
6325	PBCH TRANSMISSION INSIDE AND OUTSIDE DTXW AND THE CORRESPONDING UE BEHAVIOR IN MULTIFIRE SYSTEMS	62/297411		US		
6326	UPLINK CONTROL INFORMATION REPORT	62/297414		US		
6327	NEW CHANNEL CODING SCHEME FOR UCI ON XPUSCH	62/297781		US		
6328	RESOURCE ALLOCATION AND INDICATION TO ACHIEVE UPLINK INTERFERENCE RANDOMIZATION FOR UNLICENSED OPERATION	62/298299		US		
6329	UCI CHANNEL CODING ON XPUCCH	62/299457		US		
6330	PHYSICAL UPLINK CONTROL CHANNEL FORMATS FOR 5G	62/299458		US		
6331	CQI REPORTING WITHIN XPUCCH	62/299922		US		
6332	BRRS CONFIGURATION	62/299924		US		
6333	BEAM INFORMATION AND CSI REPORT	62/299947		US		
6334	SYNCHRONOUS BEAM SWITCHING	62/299949		US		
6335	DOWNLINK CONTROL INFORMATION SIGNALING FOR NON-SCHEDULED UPLINK TRANSMISSION OVER UNLICENSED SPECTRUM	62/299972		US		
6336	PUSCH DETECTION AND UE IDENTIFICATION FOR NON-SCHEDULED MODE IN MULTIFIRE/ELAA SYSTEMS	62/299995		US		
6337	5G/LTE-WEARABLES PHYSICAL LAYER PROTOCOL FRAMEWORK	62/300332		US		
6338	5G/LTE-WEARABLES PHYSICAL LAYER PROTOCOL FRAMEWORK	62/300335		US		
6339	PHYSICAL UPLINK CONTROL CHANNEL PROCEDURES	62/300628		US		
6340	POWER CONTROL FOR 5G BEAMFORMED SYSTEMS	62/300686		US		
6341	SELF-CONTAINED TDD FRAME STRUCTURE AND DL-UL CONFIGURATION IN 5G SYSTEM	62/302020		US		
6342	BEAMFORMED PHYSICAL DOWNLINK CONTROL CHANNEL FOR GUARD INTERVAL OR ZERO TAIL DFT SPREAD OFDM SYSTEMS	62/306903		US		
6343	TRANSMISSION SCHEME AND INTER-CELL INTERFERENCE MITIGATION FOR 5G SIB	62/307204		US		
6344	AIR INTERFACE RESOURCE UTILIZATION TECHNIQUES FOR WIRELESS COMMUNICATION NETWORKS	62/308173		US		
6345	DISCONTINUOUS DOWNLINK TRANSMISSIONS FOR MASSIVE MACHINE TYPE COMMUNICATIONS	62/308688		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6346	ENABLING CO-EXISTENCE OF AUTONOMOUS UPLINK TRANSMISSION WITH SCHEDULED TRANSMISSION AT ENB	62/311698		US		
6347	RLF HANDLING IN 5G NETWORKS	62/312307		US		
6348	LTE WLAN AGGREGATION UL BEARER SPLIT	62/312337		US		
6349	EXTENDED SYNCHRONIZATION SIGNAL DESIGN FOR SYMBOL INDEX IN 5G	62/312340		US		
6350	PERFORMANCE MEASUREMENTS JOB OPERATIONS	62/312344		US		
6351	DATA TRANSMISSION USING AN ADAPTIVE TRANSMISSION TIME INTERVAL STRUCTURE IN A WIRELESS COMMUNICATION SYSTEM	62/313612		US		
6352	CENTRALIZED VERSUS DECENTRALIZED COMMUNICATION MODES FOR V2X SERVICES	62/314196		US		
6353	SCRAMBLING SEQUENCE GENERATION AND CARRYING FRAME BOUNDARY INFORMATION FOR XPBCH	62/314244		US		
6354	60GHZ-LWA SUPPORT UE CAPABILITY MEASUREMENT BAND INDICATOR	62/314246		US		
6355	HIGHER ORDER MODULATION IN WIRELESS SYSTEM	62/314250		US		
6356	TRIGGER FOR ATTACH -TAU IN CASE OF PENDING IMS CALL REQUEST FROM USER IN LTE/UMTS	62/314271		US		
6357	NETWORK-ASSISTED MOBILITY STATUS INDICATION AND TRACKING FOR HIGH SPEED TRAIN SCENARIOS	62/316731		US		
6358	CSI FEEDBACK FOR OPEN LOOP FD-MIMO SYSTEMS	62/317206		US		
6359	DUAL BEAM OPERATION FOR MOBILITY IN MOBILE NETWORKS	62/317329		US		
6360	UE SUPPORT MODE AND ID SUPPORT FOR 5G	62/317349		US		
6361	PAGING DESIGN FOR STAND-ALONE BEAMFORMED SYSTEM	62/318057		US		
6362	SIGNALING FOR FLEXIBLE UL/DL FRAME STRUCTURE IN MULTIFIRE SYSTEMS	62/318622		US		
6363	MOBILE EDGE COMPUTING (MEC) SUPPORT FOR V2X SERVICES	62/318623		US		
6364	LOW LATENCY PRACH DESIGN FOR LARGE MULTIFIRE CELLS	62/322440		US		
6365	OPTIMIZED UL GRANT TRANSMISSION FOR ENABLING MULTI-SUBFRAME SCHEDULING	62/323102		US		
6366	ENHANCEMENT OF UPLINK CONTROL INFORMATION ON XPUCCH	62/329753		US		
6367	CONTROL AND USER PLANE SIMULTANEOUS OPERATION AND SWITCHING FOR CELLULAR INTERNET OF THINGS (CIOT)	62/329912		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6368	MULTI-CARRIER OPERATION WITH MULTIPLE ANCHOR CARRIERS IN NB-IOT	62/330660		US		
6369	PDSCH TRANSMISSION ROBUST TO PUNCTURING BASED MULTIPLEXING	62/331773		US		
6370	DUAL BEAM TRANSMISSION AND NOVEL ACK/NACK FEEDBACK MECHANISM FOR 5G PUCCH	62/332985		US		
6371	EXTENDED PHYSICAL BROADCAST CHANNEL DESIGN FOR 5G STANDALONE SYSTEM	62/333701		US		
6372	NON-ADAPTIVE HARQ RETRANSMISSION IN UL SPS RESOURCES	62/335178		US		
6373	MECHANISMS TO INCREASE SPECTRAL CAPACITY OF ENHANCED MULTIMEDIA BROADCAST MULTICAST SYSTEM CELLS WHEN DEPLOYED ON SUPPLEMENTARY DOWNLINK CARRIERS	62/335504		US		
6374	RAN and CN level tracking in cellular wireless systems	62/335537		US		
6375	RACH-LESS HANDOVER TO SMALL CELL ONLY	62/335925		US		
6376	AVOIDING DISCARD OF CRITICAL VIDEO DATA IN MODEM LONG TERM EVOLUTION STACK	62/335946		US		
6377	MECHANISMS FOR AVOIDANCE OF EXPLICIT QUALITY OF SERVICE SIGNALING OVER THE RADIO INTERFACE	62/336424		US		
6378	TRANSPORT CHANNEL TO PHYSICAL CHANNEL MAPPING FOR WIRELESS COMMUNICATIONS SYSTEMS WITH SCALABLE TRANSMISSION TIME INTERVALS	62/336464		US		
6379	TESTING FOR PAUSE WITHIN TRANSMIT OPPORTUNITY IN UNLICENSED BANDS	62/346159		US		
6380	SCHEDULING REQUEST TRANSMISSION	62/347967		US		
6381	CSI AND BEAM RELATED INFORMATION REPORTING	62/350545		US		
6382	Decoding in narrowband internet of things (NB-IoT) and machine type communications (MTC)	62/352373		US		
6383	END-TO-END METHOD TO COLLECT PM DATA FROM THE NFV INFRASTRUCTURE	62/352446		US		
6384	END-TO-END METHOD TO CREATE A PM THRESHOLD AT NFV INFRASTRUCTURE	62/352449		US		
6385	UPLINK SOUNDING REFERENCE SIGNAL TRANSMISSION IN CARRIER AGGREGATION SYSTEM	62/353375		US		
6386	IMPLEMENTING LIFECYCLE MANAGEMENT IN NFV	62/353976		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6387	MECHANISMS ON EARLY ACKNOWLEDGEMENT FEEDBACK FOR GROUPED TRANSMISSION FOR 5G SYSTEMS	62/356196		US		
6388	OPTIMISED PAGING MECHANISM FOR IMS	62/357043		US		
6389	AUTHORIZE AND DYNAMICALLY ENABLE/DISABLE ENHANCED COVERAGE FUNCTIONALITY	62/357169		US		
6390	ELWA ENHANCEMENTS FOR TRI-BAND (24GHZ 5GHZ AND 60GHZ) WI-FI EQUIPMENT	62/364707		US		
6391	EMPLOYING DATA COMMUNICATION OVER SHORTENING TTI	62/366862		US		
6392	EFFICIENT TESTING OF BACKOFF (IDLE TIME) IMPLEMENTATION	62/368527		US		
6393	SYSTEM AND METHOD TO COLLECT THE VNF PERFORMANCE MEASUREMENTS RELATED TO VIRTUALIZED RESOURCES	62/368824		US		
6394	MAKE BEFORE BREAK AND RANDOM ACCESS PROCEDURE-LESS HANDOVER SIGNALING	62/371433		US		
6395	CSI-RS BANDWIDTH CONFIGURATION FOR 5G SYSTEM	62/372168		US		
6396	CONTROL CHANNEL TRANSMISSION IN NEW RADIO ACCESS TECHNOLOGIES USING COMMON SEARCH SPACE	62/372481		US		
6397	X2 SUPPORT FOR EMOB FEATURE	62/372501		US		
6398	ENHANCED XPRACH TRANSMISSION IN NR	62/372660		US		
6399	ELWA X2 AND XW SUPPORT FOR HANDOVER WITHOUT WT CHANGE	62/372913		US		
6400	BUFFER STATUS REPORTING PROCEDURES FOR NR	62/372915		US		
6401	RELEASE-14 FTM ENHANCEMENTS	62/373197		US		
6402	MEASUREMENT GAP ENHANCEMENT IN NEW RADIO ACCESS TECHNOLOGY	62/373742		US		
6403	SUPPORT OF RANDOM ACCESS IN NON-ANCHOR CARRIER	62/373894		US		
6404	MULTIPLE MEDIUM ACCESS CONTROL ENTITIES PER USER EQUIPMENT	62/374623		US		
6405	LONG TERM EVOLUTION AND NEW RADIO ACCESS TECHNOLOGY TIGHT INTERWORKING RADIO RESOURCE CONTROL COORDINATION FOR INDEPENDENT EVOLUTION	62/374631		US		
6406	SUPPORT FOR SINGLE CELL-POINT TO MULTIPOINT-BASED MULTICASTING FOR BANDWIDTH REDUCED LOW COMPLEXITY AND COVERAGE ENHANCED USER EQUIPMENT AND FOR NARROWBAND INTERNET OF THINGS USER EQUIPMENT	62/374632		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6407	METHODS AND SYSTEMS OF USING MANAGED OBJECT OPERATION TO CONTROL LIFECYCLE MANAGEMENT OPERATION	62/376126		US		
6408	FILTERING FOR MEASUREMENT IN FIFTH GENERATION NETWORKS	62/377295		US		
6409	UPLINK MULTI-CARRIER LBT FOR LTE ELAA	62/378052		US		
6410	Network assisted signaling for high speed scenarios detection	62/378060		US		
6411	MULTIPLE USER SUPERPOSITION TRANSMISSION UE BEHAVIORS AND NETWORK SIGNALLINGS	62/378550		US		
6412	DOWNLINK CONTROL CHANNEL FOR BEAMFORMING SYSTEMS	62/395281		US		
6413	LWIP-SEGW-ENB-INTERFACE	62/398210		US		
6414	CONFIGURATION OF LIGHT CONNECTION FOR 3GPP SYSTEM	62/399969		US		
6415	SUPPORT OF FREQUENCY HOPPING WITH DIFFERENT NUMBER OF PHYSICAL RESOURCE BLOCKS (PRBS) IN EACH HOPPED FREQUENCY REGION	62/401538		US		
6416	FREQUENCY HOPPING FOR UNLICENSED INTERNET OF THINGS	62/401704		US		
6417	AT COMMANDS FOR CIOT RATE CONTROL	62/401710		US		
6418	METHOD OF APERIODIC CSI-RS AND CSI-IM INDICATION FOR NR	62/401722		US		
6419	MECHANISM OF ENHANCED CELL IDENTIFIER POSITIONING	62/401749		US		
6420	REPETITION LEVEL FEEDBACK FOR ENHANCED MACHINE TYPE COMMUNICATION (FEMTC) AND NARROW BAND INTERNET OF THINGS (ENB-IOT)	62/402154		US		
6421	HANDLING OF UPLINK GRANT SPECIFIC TO A SERVICE VERTICAL OR PHY CONFIGURATION FOR UES IN 5G NR	62/402335		US		
6422	UE CAPABILITIES FOR LATENCY REDUCTION	62/402353		US		
6423	MECHANISM TO PREVENT CORE NETWORK OVERLOAD FOR CONTROL PLANE EPS CIOT OPTIMIZATION	62/402515		US		
6424	CONFIGURATION OF DISCONTINUOUS RECEPTION (DRX) IN LIGHT CONNECTION	62/402847		US		
6425	COMMUNICATION OF QOS MAPPING	62/402870		US		
6426	ELWA UE CAPABILITIES FOR ELWA	62/402939		US		
6427	PDCPRLC HANDLING FOR PDCP OUT-OF-HFN DELIVERY IN DC SPLIT BEARER	62/402978		US		
6428	UPLINK POSITIONING FOR NARROW BAND IOT	62/403400		US		
6429	MULTIPLE RADIO RESOURCE RESERVATION FOR V2V COMMUNICATION	62/405556		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6430	MECHANISMS ON ADAPTIVE CODE BLOCK HARQ-ACK FEEDBACK FOR NR	62/406206		US		
6431	MECHANISMS ON MULTIPLEXING OF PUCCH AND PUSCH/SRS IN NR	62/414474		US		
6432	UE BEHAVIOR DURING SRS SWITCHING AMONG TDD COMPONENT CARRIERS	62/415087		US		
6433	DOWNLINK CONTROL INFORMATION DESIGN FOR WIRELESS COMMUNICATION WITH SHORTEN TTI LENGTH	62/416011		US		
6434	AVOIDANCE OF HFN DESYNCHRONIZATION IN UPLINK OVER WLAN IN LTE-WLAN AGGREGATION	62/416013		US		
6435	ENHANCED LWIP (ELWIP) USER PLANE NETWORK INTERFACE	62/416532		US		
6436	UPLINK CONTROL CHANNEL WITH SHORT AND LONG DURATION FOR NR	62/416621		US		
6437	LCM PARAMETERS MODELING FOR VNF INSTANTIATION TRIGGERED BY MO CREATION	62/416624		US		
6438	FULL-DIMENSION MULTIPLE INPUT MULTIPLE OUTPUT IN TRANSMISSION MODE 10	62/417692		US		
6439	REPORTING BAND RELATED CAPABILITIES TO CELLULAR NETWORKS	62/417698		US		
6440	BANDWIDTH CHANGE ON TARGET ENB UE PROCEDURE WHEN MAKE-BEFORE-BREAK IS CONFIGURED	62/417701		US		
6441	SIGNALING SUPPORT FOR NCSG FOR INTERRUPTION CONTROL	62/417702		US		
6442	MEASUREMENT REPORTING IN NEW RADIO	62/417917		US		
6443	ON THE MESSAGE 3 TRANSMISSION IN RANDOM ACCESS PROCEDURE FOR NR	62/418091		US		
6444	CRS AWARENESS IN OTDOA	62/418104		US		
6445	BI-CASTING CONFIGURATION IN NR	62/418133		US		
6446	SIGNALING TO SUPPORT REDUCED PROCESSING TIME	62/418137		US		
6447	CODEC RATE ADAPTION MECHANISMS FOR VOICE AND VIDEO	62/418138		US		
6448	DYNAMIC PROTOCOL STACK RESET AND SECURITY CONFIGURATION DURING HANDOVER IN NR	62/421858		US		
6449	HIGHER LAYER CONFIGURATION ON PHYSICAL LAYER RESOURCES FOR RRM	62/421864		US		
6450	STAGE 3 FOR PER CC MEASUREMENT GAP CONFIGURATION	62/421869		US		
6451	COVERAGE ENHANCEMENT FOR U-IOT	62/423039		US		
6452	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM	62/424108		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6453	LEVEL INTEGRATION USING IPSEC (LWIP) PACKET ACKNOWLEDGMENT USING GENERIC ROUTING ENCAPSULATION (GRE) HEADER	62/429515		US		
6454	COLLECTING VIRTUAL CPU PERFORMANCE MEASUREMENT IN NFV INFRASTRUCTURE	62/430188		US		
6455	ADVANCED CONTROL CHANNEL FOR COVERAGE ENHANCEMENT	62/430190		US		
6456	LTE VEHICULAR POSITIONING	62/430211		US		
6457	AUTONOMOUS UCI TRANSMISSIONUPDATED	62/431296		US		
6458	UE BEHAVIORS FOR SEMI-PERSISTENT CSI-RS TRANSMISSION AND CSI REPORTING	62/432432		US		
6459	REPORTING MECHANISM FOR UE CAPABILITY OF BAND BEAM AND NUMEROLOGY	62/436300		US		
6460	DATA FORWARDING FOR DATA RADIO BEARERS DURING HANDOVER	62/436900		US		
6461	MOBILITY SIGNALING OPTIMIZATION IN INACTIVE STATE	62/436902		US		
6462	Measurement based on PSS/SSS only per cell	62/436911		US		
6463	MECHANISMS FOR CONTROL PLANE OVERLOAD PROTECTION FOR CP CIOT DATA TRANSFERS	62/439763		US		
6464	PRECODING OF PHASE TRACKING REFERENCE SIGNAL	62/440987		US		
6465	MEASUREMENT OF BEAM REFINEMENT SIGNAL TECHNIQUES AND APPARATUS	62/442871		US		
6466	INSTANTIATION OF PHYSICAL AND VIRTUALIZED NETWORK FUNCTIONS FORMING A GNB	62/442876		US		
6467	TRANSMISSION SCHEME FOR COMMON CONTROL MESSAGE WITH MULTI-BEAM OPERATION	62/443116		US		
6468	INTERFERENCE AVOIDANCE BETWEEN DIFFERENT NODES	62/443118		US		
6469	GENERATING VIRTUALIZED RESOURCE PERFORMANCE ALARM FROM THRESHOLD CROSSING NOTIFICATION	62/443253		US		
6470	MEASUREMENT JOB SUSPENSION AND RESUME IN NFV	62/443256		US		
6471	LOW OVERHEAD SUBBAND-CONTAINED PHYSICAL DL CONTROL	62/443272		US		
6472	ACCESS CONTROL FOR NEW RADIO	62/443342		US		
6473	BASELINE MEASUREMENT CONFIGURATIONS OF UE RF CHARACTERISTICS FOR THE NEW RADIO STANDARD	62/443420		US		
6474	MEASUREMENT EVENTS FOR XSS AND XRS	62/443524		US		
6475	UL BANDWIDTH ADAPTATION AND MULTI-SUBBAND OPERATION IN NR	62/444195		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6476	CSI-RS STRUCTURE FOR INITIAL BEAM ACQUISITION	62/444197		US		
6477	BANDWIDTH ADAPTATION FOR WIRELESS COMMUNICATION SYSTEM	62/444198		US		
6478	RESTRICTIONS FOR COVERAGE ENHANCEMENTS FOR CIOT DEVICES	62/444200		US		
6479	TRANSMISSION STRUCTURE OF SYNCHRONIZATION SIGNALS	62/444248		US		
6480	LPP BASED POSITIONING IN IDLE MODE	62/447138		US		
6481	LTE ADVERTISE AVAILABILITY OF 5G NETWORK TO THE UE	62/448146		US		
6482	ELWA/LWIP ACTIONS UPON WLAN DISCONNECT	62/451423		US		
6483	FAKE GNB/ENB DETECTION USING IDENTITY BASED AUTHENTICATION AND ENCRYPTION	62/452245		US		
6484	POSITIONING ENHANCEMENTS FOR NARROWBAND INTERNET OF THINGS DEVICES	62/453968		US		
6485	POWER HEADROOM REPORTING FOR SHORTENED TTI AND PROCESSING TIME REDUCTION	62/453973		US		
6486	SOLUTION TO AVOID OR MINIMIZE THE POSSIBILITY OF SRVCC HO IN POOR RADIO COVERAGE IN EPS	62/453974		US		
6487	ENHANCEMENT TO DIAMETER BASED INTERFACES TO ENABLE RESTRICTION OF COVERAGE ENHANCEMENT IN 3GPP SYSTEMS	62/453976		US		
6488	PER-COMPONENT CARRIER MEASUREMENT GAP AND NETWORK CONTROLLED SMALL GAP SIGNALING	62/453978		US		
6489	RADIO RESOURCE MANAGEMENT (RRM) REQUIREMENT FOR BANDWIDTH ADAPTATION (BWA)	62/454457		US		
6490	WIDEBAND MEASUREMENT IN NR SYSTEMS	62/454569		US		
6491	NETWORK CONTROLLED SMALL GAP CONFIGURATION MECHANISM FOR CARRIER AGGREGATION AND DUAL CONNECTIVITY	62/454571		US		
6492	DOWNLINK (DL) CONTROL AND DATA CHANNEL WITH DIFFERENT NUMEROLOGIES IN NEW RADIO (NR)	62/454665		US		
6493	FAIR USE OF UPLINK RESOURCES BY DIVERSE POWER CLASSES IN LTE	62/454670		US		
6494	NEW RSRP AND RSSI METRIC AND DEFINITION	62/454672		US		
6495	QOS BEARER MAPPING OVERRIDE BIT	62/454675		US		
6496	NETWORK RESOURCE MODEL NEEDED TO SUPPORT GNB IN NEW RAN	62/455210		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6497	RETRANSMISSION FOR CODE BLOCK GROUP BASED HYBRID AUTOMATIC REPEAT REQUEST - ACKNOWLEDGEMENT (HARQ-ACK) OPERATION FOR NEW RADIO (NR)	62/455214		US		
6498	SOLUTION TO AVOID OR MINIMIZE THE POSSIBILITY OF SRVCC HO IN POOR RADIO COVERAGE IN EPS	62/455224		US		
6499	DOWNLINK CONTROL SIGNALING SEGMENTATION	62/455441		US		
6500	METHOD AND/OR APPARATUS OF OR FOR TIMING DIFFERENCE BETWEEN PRIMARY CELL AND SECONDARY CELL FOR SHORTENED TRANSITION TIME INTERVAL	62/455475		US		
6501	NAS IMPACTS OF LIGHT CONNECTION	62/455489		US		
6502	METHOD AND/OR APPARATUS OF OR FOR TIMING DIFFERENCE BETWEEN PRIMARY CELL AND SECONDARY CELL FOR SHORTENED TRANSMISSION TIME INTERVAL	62/456019		US		
6503	COLLECTION OF NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE (NFVI) RESOURCE USAGE METRICS BASED ON OPENSTACK TELEMETRY SERVICE	62/457591		US		
6504	COVERAGE ENHANCEMENT (CE) MODEM B AND VOICE OVER LONG TERM EVOLUTION (VOLTE)	62/457598		US		
6505	NFREQEFF REPORTING FOR RRM ENHANCEMENT	62/458427		US		
6506	POWER SAVING FOR SYSTEM INFORMATION ACQUISITION	62/459369		US		
6507	ROUTER ADVERTISEMENT IN MULTI-HOMED IPV6 DATA SESSIONS	62/464226		US		
6508	HIGH SPEED TRAIN IN NEW RADIO (NR)	62/466882		US		
6509	COORDINATION OF RADIO TECHNOLOGY FOR DEVICE-TO-DEVICE (D2D) DISCOVERY	62/470079		US		
6510	MEASUREMENT GAP PER FREQUENCY AND PER CELL	62/471235		US		
6511	METHODS AND SYSTEMS FOR INSTANTIATING AND CONNECTING RADIO ACCESS NETWORK VIRTUALIZED NETWORK FUNCTION AND CORE NETWORK VIRTUALIZED NETWORK FUNCTION	62/471238		US		
6512	INSTANTIATION OF A VIRTUAL NETWORK FUNCTION (VNF) AS PART OF A GNODEB (GNB)	62/471256		US		
6513	SUPPORTING SON FUNCTIONS ON NETWORK SLICE INSTANCES	62/472220		US		
6514	DYNAMIC RANDOM ACCESS CHANNEL (RACH) FOR HANDOVER (HO)	62/473117		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6515	HANDLING UES CE MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN UES USAGE SETTING	62/473917		US		
6516	DOWNLINK (DL) AND UPLINK (UL) DATA SCHEDULING AND HYBRID AUTOMATIC REPEAT REQUEST (HARQ) TIMING FOR NEW RADIO (NR)	62/475054		US		
6517	APPARATUS AND METHOD FOR HARQ OPERATION WITH TTI TYPES SWITCHING	62/475460		US		
6518	RADIO LINK MONITORING BEAM RECOVERY AND RADIO LINK FAILURE HANDLING	62/475692		US		
6519	SUPPORT OF 64 QUADRATURE AMPLITUDE MODULATION (QAM) FOR EVEN FURTHER ENHANCED MACHINE TYPE COMMUNICATION (EFEMTC) UNICAST PHYSICAL DOWNLINK SHARED CHANNEL (PDSCH)	62/476039		US		
6520	EXPIRATION HANDLING OF TWO-STAGE GRANT VALIDITY DURATION METHOD AND APPARATUS	62/476058		US		
6521	LOW OVERHEAD TRACKING REFERENCE SIGNAL DESIGN FOR NR	62/476081		US		
6522	RRM INTERRUPTION REQUIREMENTS FOR WIDER BANDWIDTH IN NR	62/476103		US		
6523	USER EQUIPMENT TRANSMIT TIMING ADJUSTMENT FOR NEW RADIO	62/476420		US		
6524	DOWNLINK CONTROL INFORMATION TO SUPPORT UL PARTIAL SUBFRAME TRANSMISSION ON LAA SCELL	62/476586		US		
6525	AUTONOMOUS UPLINK GRANT (SIGNALING ASPECT)	62/478439		US		
6526	UPLINK (UL) GRANTS INDICATING DIFFERENT PHYSICAL UPLINK SHARED CHANNEL (PUSCH) STARTING POSITIONS IN THE SAME SUBFRAME	62/478448		US		
6527	INCREASED SECURITY FOR PAGING MESSAGES IN FOURTH GENERATION (4G) AND FIFTH GENERATION (5G)	62/478935		US		
6528	BEAM MANAGEMENT PROCEDURE CONFIGURATION	62/480098		US		
6529	DESIGN AND APPARATUS FOR CPDCCH FOR WIDEBAND COVERAGE ENHANCEMENT (WCE)	62/480100		US		
6530	UE CAPABILITY INDICATION TO POSITIONING SERVER	62/480980		US		
6531	COLLECTION OF NETWORK FUNCTIONS VIRTUALIZATION INFRASTRUCTURE (NFVI) PERFORMANCE METRICS	62/489075		US		
6532	MULTEFIRE ARCHITECTURE FOR CELLULAR INTERNET OF THINGS (CIOT)	62/489081		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6533	CONNECTING CENTRALIZED UNIT (CU) AND DISTRIBUTED UNIT (DU) IN THE VIRTUALIZED RADIO ACCESS NETWORK (RAN)	62/489741		US		
6534	SHARING NETWORK SLICE RELATED MANAGEMENT DATA TO CUSTOMERS	62/491112		US		
6535	AERIAL VEHICLE (DRONE) INTERFERENCE CONTROL SIGNALING AND CAPABILITY	62/502389		US		
6536	ABSOLUTE POWER CONTROL TOLERANCE FOR NB-IOT/MTC	62/502532		US		
6537	AUTONOMOUS UPLINK GRANT (SIGNALING ASPECT)	62/504228		US		
6538	HANDLING OF USER EQUIPMENTS (UES) COVERAGE ENHANCEMENT (CE) MODE B RADIO CAPABILITY MISMATCH DUE TO CHANGE IN UES USAGE SETTING	62/505520		US		
6539	MEASUREMENT DESIGN FOR NEXT RADIO (NR) AND LONG TERM EVOLUTION (LTE)	62/505526		US		
6540	PER USER EQUIPMENT (UE) NETWORK CONTROLLED SMALL GAP (NCSG) SIGNALING WITHOUT PER CC INDICATION	62/506845		US		
6541	PUBLIC LAND MOBILE NETWORK (PLMN) SELECTION ENHANCEMENTS FOR COVERAGE ENHANCEMENT	62/511796		US		
6542	BEAMFORMED MEASUREMENT FOR NEW RADIO (NR)	62/514516		US		
6543	FALLBACK TO EVOLVED PACKET SYSTEM	62/518846		US		
6544	HANDLING MULTIPLE SR CONFIGURATIONS AND CORRESPONDING UL GRANTS	62/520920		US		
6545	PHYSICAL RESOURCE BLOCK INDEXING FOR COEXISTENCE OF NARROW BAND CARRIER AGGREGATION AND WIDE BAND USER EQUIPMENT IN NEW RADIO	62/521105		US		
6546	MECHANISMS TO ENABLE INACTIVE AND DUAL CONNECTIVITY INTERACTION	62/521186		US		
6547	STAGE-3 FOR NG-C PERSISTENCE CONTROL OF UE-SPECIFIC RAN-CN ASSOCIATIONS	62/521954		US		
6548	ACCESS CONTROL FOR USER EQUIPMENT WITH COVERAGE ENHANCEMENT LEVEL SUPPORT METHOD APPARATUS AND SYSTEM	62/523384		US		
6549	HANDLING OF TIMER EXPIRY FOR MT CSFB	62/526868		US		
6550	MULTIRADIO INTERFACE FOR SOFTWARE RECONFIGURATION	62/535581		US		
6551	TECHNOLOGIES FOR SCRAMBLING BROADCAST CHANNEL	62/537611		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6552	SOLUTION FOR SESSION MANAGEMENT FUNCTION TO ESTABLISH DATA FORWARDING TUNNEL BETWEEN TWO USER PLANE FUNCTIONS IN FIFTH GENERATION SYSTEMS	62/541589		US		
6553	HANDOVER FOR UNMANNED AERIAL VEHICLES	62/542153		US		
6554	NEW QUALITY BASED MEASUREMENT DEFINITION FOR NEW RADIO SYSTEMS	62/542699		US		
6555	MEASUREMENT GAP GROUPS FOR NEW RADIO (NR)	62/543711		US		
6556	RANDOM ACCESS CHANNEL PROCEDURE IN NEW RADIO SYSTEMS DURING HANDOVER	62/543868		US		
6557	CRITICAL DATA HANDLING ENHANCEMENTS FOR VIDEO AND OTHER APPLICATIONS	62/544626		US		
6558	MEASUREMENT GAP COORDINATION OVER XN INTERFACE	62/545238		US		
6559	USER EQUIPMENT-ASSISTED MEASUREMENT GAP CONFIGURATION IN NEW RADIO	62/561424		US		
6560	PRODUCING CONNECTION POINT RELATED PERFORMANCE MEASUREMENTS IN NETWORK FUNCTION VIRTUALIZATION ENVIRONMENTS	62/562021		US		
6561	POWER HEADROOM OF GRANTLESS UPLINK	62/562796		US		
6562	BEAM SPECIFIC POWER CONTROL	62/563467		US		
6563	BANDWIDTH PART RADIO RESOURCE CONTROL SIGNALING AND MEASUREMENT HANDLING	62/564787		US		
6564	MULTIPLE SR CONFIGURATIONS DRX AND BSR HANDLING IN MULTIPLE CONFIGURED BWPS AND CA	62/564870		US		
6565	SCHEDULING INFORMATION OF SIB1-BR FOR SKIPPING MIB DURING HO	62/564872		US		
6566	ACTIVATION OF SECONDARY CELL CONTAINING BANDWIDTH PARTS	62/564973		US		
6567	MULTIPLE TRANSPORT NETWORK LAYER (TNL) ASSOCIATIONS BETWEEN RADIO ACCESS NETWORK (RAN) AND ACCESS AND MOBILITY MANAGEMENT FUNCTION (AMF) FOR VIRTUALIZED DEPLOYMENTS FOR STAGE-3 SUPPORT	62/566047		US		
6568	MANAGING LTE-WIRELESS LOCAL AREA NETWORK AGGREGATION AND LTE-WIRELESS LOCAL AREA NETWORK WITH IPSEC TUNNEL	62/568209		US		
6569	DEVICE REQUESTED PROTOCOL DATA UNIT SESSION MODIFICATION IN THE 5G SYSTEM	62/571671		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6570	RADIO LINK MONITORING (RLM) EVALUATION MECHANISM FOR NEW RADIO (NR) SYSTEMS	62/572326		US		
6571	COMMUNICATION DEVICE AND METHOD FOR RELEASING EMERGENCY PDN FOR A VOLTE EMERGENCY CALL WITHOUT EMERGENCY REGISTRATION AKA ANONYMOUS EMERGENCY CALL	62/572861		US		
6572	MULTI-CARRIER OPERATION FOR ENHANCED MACHINE TYPE COMMUNICATIONS IN UNLICENSED MEDIUM (EMTC-U)	62/574084		US		
6573	TIME OF ARRIVAL (TOA) BASED POSITIONING IN NEW RADIO (NR)	62/574313		US		
6574	FILTER COEFFICIENT CONFIGURATION FOR RADIO RESOURCE MANAGEMENT (RRM) IN NEW RADIO (NR) SYSTEMS	62/575281		US		
6575	MULTIPLE STREAM CONTROL TRANSMISSION PROTOCOL (SCTP) ASSOCIATIONS ON THE F1 INTERFACE	62/582839		US		
6576	S-MEASURE ON NEW RADIO (NR) SYNCHRONIZATION SIGNAL (SS) AND CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) IN NEW RADIO (NR) SYSTEMS	62/582844		US		
6577	RESOURCE USAGE OPTIMIZATIONS IN AUTOMATION SYSTEMS	62/586753		US		
6578	FLEXIBLE FLOW CONTROL MECHANISM FOR NEXT GENERATION RADIO ACCESS NETWORK INTERFACES	62/586764		US		
6579	SINGLE REGISTRATION MODE SUPPORT FOR INTERWORKING BETWEEN FIFTH GENERATION CORE NETWORK (5GC) AND EVOLVED PACKET CORE NETWORK (EPC)	62/588787		US		
6580	NEXT GENERATION (NG) - APPLICATION PROTOCOL (AP) PAGING PROCEDURE	62/616955		US		
6581	TRANSMISSION DOWNLINK CONTROL INFORMATION FOR NEW RADIO (NR) SYSTEM	62/617109		US		
6582	METHODS OF HANDLING SCHEDULING REQUESTS FOR ULTRA-RELIABLE LOW LATENCY COMMUNICATION SERVICES IN NEW RADIO	62/631322		US		
6583	COMMON AND USER EQUIPMENT (UE) SPECIFIC PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) CONFIGURATION FOR ENHANCED MACHINE-TYPE COMMUNICATIONS (EMTC) SYSTEMS	62/639651		US		
6584	BEAM INDICATION IN CARRIER AGGREGATION	62/645043		US		
6585	INTER-CELL BEAM MANAGEMENT	62/646595		US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6586	PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) BLIND DECODING IN FIFTH GENERATION (5G) NEW RADIO SYSTEMS	62/646597		US		
6587	Conformally Shielded Power Inductor and Other Passive Devices for 4/5G Envelope Tracker Modules and/or Other Power Management Modules	62/646675		US		
6588	TIMING ADVANCE FOR GRANTLESS UPLINK TRANSMISSION			US		
6589	COLLISION HANDLING OF REFERENCE SIGNALS			US		
6590	POWER RAMPING AND CONTROL IN NEW RADIO (NR) DEVICES			US		
6591	COLLISION HANDLING OF SYNCHRONIZATION SIGNAL (SS) BLOCKS			US		
6592	DEMODULATION REFERENCE SIGNAL FOR PHYSICAL BROADCAST CHANNEL IN NEW RADIO			US		
6593	PHASE TRACKING REFERENCE SIGNAL (PT-RS) CONFIGURATION			US		
6594	MULTIRADIO INTERFACE FOR SOFTWARE RECONFIGURATION			US		
6595	MULTEFIRE ARCHITECTURE SUPPORTING ACCESS CLASSES AND BARRING			US		
6596	SCRAMBLING OF PHYSICAL BROADCAST CHANNEL (PBCH)			US		
6597	CAMPING APPROACH IN MULTI-SIM USER EQUIPMENT WHEN PRESENT IN COVERAGE HOLES OF RESPECTIVE NETWORK OPERATORS			US		
6598	5G MMWAVE WIRELESS REMOTE RADIO HEAD SYSTEM			US		
6599	5G RAN1 SYSTEM AND METHOD FOR PHASE NOISE COMPENSATION FOR DIVERSITY BASED TRANSMISSION			US		
6600	USER EQUIPMENT AND METHODS FOR ADAPTING SYSTEM PARAMETERS BASED ON EXTENDED PAGING CYCLES			US		
6601	EARLY TTT TERMINATION			US		
6602	FRAME TIMING IN IMPROVEMENT PROCESS TO LPP OTDOA ASSISTANCE DATA SIGNALLING			US		
6603	DIGITAL TO ANALOG CONVERTER CIRCUITS APPARATUS AND METHOD FOR GENERATING A HIGH FREQUENCY TRANSMISSION SIGNAL AND METHODS OF DIGITAL TO ANALOG CONVERSION			US		
6604	METHODS AND APPARATUS OF EVOLVED NODE B AND USER EQUIPMENT FOR CAPABILITY INFORMATION SETTING			US		
6605	SYSTEM AND METHOD FOR TDD COMMUNICATIONS			US		

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No.	TITLE	Filing Number	Publication Number	Jurisdiction	Filing Date	Publication Date
6606	SIGNALING EXTENDED EARFCN AND E-UTRA BANDS IN UMTS NETWORKS			US		
6607	AIR INTERFACE SLICING ARCHITECTURE FOR WIRELESS COMMUNICATION SYSTEMS			US		
6608	SLICEABLE RADIO ACCESS NETWORK ARCHITECTURE FOR WIRELESS COMMUNICATIONS			US		
6609	SLICE-BASED OPERATION IN WIRELESS NETWORKS WITH END-TO-END NETWORK SLICING			US		
6610	EVOLVED NODE-B (ENB) USER EQUIPMENT (UE) AND METHODS FOR COMMUNICATION OF A CHANNEL RASTER FREQUENCY OFFSET			US		
6611	INTERFERENCE AID FREQUENCY OFFSET ESTIMATION FOR USER EQUIPMENT	PCT/CN2013/001513	WO2015/081458	WO		6/11/2015
6612	A SYSTEM AND METHOD FOR FREQUENCY CONTROL LOOP IN A MOBILE DEVICE WITH PLURALITY OF SIMS	PCT/CN2013/001633	WO2015/095986	WO		7/2/2015
6613	SYSTEM AND METHOD FOR ROBUST MU-MIMO CQI FEEDBACK IN LTE-A	PCT/CN2014/091012		WO		
6614	DISTRIBUTED PUCCH PHYSICAL RESOURCE BLOCK ALLOCATION	PCT/CN2015/077099		WO		
6615	SYSTEM AND METHOD FOR NON-CONTENTION BASED LOW	PCT/CN2015/079492		WO		
6616	REFERENCE SIGNAL POWER MEASUREMENT FILTERING	PCT/CN2015/082361	WO2016/206051	WO		12/29/2016
6617	USER EQUIPMENT AND CODEBOOK SEARCH METHOD FOR 4TX DUAL CODEBOOK (RAN1)	PCT/CN2015/082363	WO2016/206052	WO		12/29/2016
6618	INTER-BEAM MOBILITY CONTROL IN MASSIVE MIMO SYSTEM	PCT/CN2015/088210		WO		
6619	BEAM INTERPOLATION IN MASSIVE MIMO SYSTEM	PCT/CN2015/089626		WO		
6620	METHOD FOR PERFORMING MOBILE COMMUNICATIONS MOBILE TERMINAL DEVICE AND MOBILE BASEBAND PROCESSING CIRCUIT	PCT/CN2015/089905	WO2017/045188	WO		3/23/2017
6621	CIRCUIT ARRANGEMENT MOBILE DEVICE AND METHOD FOR AMPLIFYING A SIGNAL	PCT/CN2015/090662	WO2017/049563	WO		3/30/2017
6622	ROBUST MEASUREMENT AND DATA RECEIVING	PCT/CN2015/092921		WO		
6623	SERVING GATEWAY/PACKET GATEWAY USER PLANE INTERNET PROTOCOL ADDRESS AND TUNNEL ENDPOINT IDENTIFIER ALLOCATION	PCT/CN2015/094002		WO		
6624	DOWNLINK DATA HANDLING FOR IDLE MODE UE WHEN THE SGW IS SPLIT INTO CONTROL PLANE NODE AND USER PLANE NODE	PCT/CN2015/094005		WO		