PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6688192

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PANASONIC CORPORATION	01/16/2014

RECEIVING PARTY DATA

Name:	OPTIS WIRELESS TECHNOLOGY, LLC
Street Address:	P.O. BOX 250649
City:	PLANO
State/Country:	TEXAS
Postal Code:	75025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17244939

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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

Phone: 703-816-4027
Email: ptomail@nixonvan.com
Correspondent Name: H. WARREN BURNAM, JR.
Address Line 1: 901 N. GLEBE ROAD, 11TH FLOOR
Address Line 4: ARLINGTON, VIRGINIA 22203-1808

ATTORNEY DOCKET NUMBER:	HP13US6_6103-1139
NAME OF SUBMITTER:	H. WARREN BURNAM, JR.
SIGNATURE:	/H. Warren Burnam, Jr./
DATE SIGNED:	05/03/2021

Total Attachments: 63
source=HP13US_assignment_pan_to_Optis#page1.tif
source=HP13US_assignment_pan_to_Optis#page2.tif
source=HP13US_assignment_pan_to_Optis#page3.tif
source=HP13US_assignment_pan_to_Optis#page4.tif
source=HP13US_assignment_pan_to_Optis#page5.tif
source=HP13US_assignment_pan_to_Optis#page6.tif

source=HP13US_assignment_pan_to_Optis#page7.tif
source=HP13US_assignment_pan_to_Optis#page8.tif
source=HP13US_assignment_pan_to_Optis#page9.tif
source=HP13US_assignment_pan_to_Optis#page10.tif
source=HP13US_assignment_pan_to_Optis#page11.tif
source=HP13US_assignment_pan_to_Optis#page12.tif
source=HP13US_assignment_pan_to_Optis#page13.tif
source=HP13US_assignment_pan_to_Optis#page14.tif
source=HP13US_assignment_pan_to_Optis#page15.tif
source=HP13US_assignment_pan_to_Optis#page16.tif
source=HP13US_assignment_pan_to_Optis#page17.tif
source=HP13US_assignment_pan_to_Optis#page18.tif
source=HP13US_assignment_pan_to_Optis#page19.tif
source=HP13US_assignment_pan_to_Optis#page20.tif
source=HP13US_assignment_pan_to_Optis#page21.tif
source=HP13US_assignment_pan_to_Optis#page22.tif
source=HP13US_assignment_pan_to_Optis#page23.tif
source=HP13US_assignment_pan_to_Optis#page24.tif
source=HP13US_assignment_pan_to_Optis#page25.tif
source=HP13US_assignment_pan_to_Optis#page26.tif
source=HP13US_assignment_pan_to_Optis#page27.tif
source=HP13US_assignment_pan_to_Optis#page28.tif
source=HP13US_assignment_pan_to_Optis#page29.tif
source=HP13US_assignment_pan_to_Optis#page30.tif
source=HP13US_assignment_pan_to_Optis#page31.tif
source=HP13US_assignment_pan_to_Optis#page32.tif
source=HP13US_assignment_pan_to_Optis#page33.tif
source=HP13US_assignment_pan_to_Optis#page34.tif
source=HP13US_assignment_pan_to_Optis#page35.tif
source=HP13US_assignment_pan_to_Optis#page36.tif
source=HP13US_assignment_pan_to_Optis#page37.tif
source=HP13US_assignment_pan_to_Optis#page38.tif
source=HP13US_assignment_pan_to_Optis#page39.tif
source=HP13US_assignment_pan_to_Optis#page40.tif
source=HP13US_assignment_pan_to_Optis#page41.tif
source=HP13US_assignment_pan_to_Optis#page42.tif
source=HP13US_assignment_pan_to_Optis#page43.tif
source=HP13US_assignment_pan_to_Optis#page44.tif
source=HP13US_assignment_pan_to_Optis#page45.tif
source=HP13US_assignment_pan_to_Optis#page46.tif
source=HP13US_assignment_pan_to_Optis#page47.tif
source=HP13US_assignment_pan_to_Optis#page48.tif
source=HP13US_assignment_pan_to_Optis#page49.tif
source=HP13US_assignment_pan_to_Optis#page50.tif
source=HP13US_assignment_pan_to_Optis#page51.tif
source=HP13US_assignment_pan_to_Optis#page52.tif
source=HP13US_assignment_pan_to_Optis#page53.tif
source=HP13US_assignment_pan_to_Optis#page54.tif

source=HP13US_assignment_pan_to_Optis#page55.tif
source=HP13US_assignment_pan_to_Optis#page56.tif
source=HP13US_assignment_pan_to_Optis#page57.tif
source=HP13US_assignment_pan_to_Optis#page58.tif
source=HP13US_assignment_pan_to_Optis#page59.tif
source=HP13US_assignment_pan_to_Optis#page60.tif
source=HP13US_assignment_pan_to_Optis#page61.tif
source=HP13US_assignment_pan_to_Optis#page62.tif
source=HP13US_assignment_pan_to_Optis#page63.tif

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("**Agreement**") dated as of January 16, 2014 (the "**Effective Date**") by and between:

(i) Panasonic Corporation, a Japanese corporation ("**Assignor**"); and

(ii) Optis Wireless Technology, LLC, a Delaware limited liability company ("**Assignee**").

WITNESSETH:

WHEREAS, Assignor and Assignee, among others, entered into a certain Master Sale Agreement, dated as of January 16, 2014 (the "**Master Sale Agreement**");

WHEREAS, under the Master Sale Agreement Assignor agreed to transfer its rights in the Assigned Patents (as defined below) to Assignee;

WHEREAS, pursuant to the Master Sale Agreement Assignor and Assignee entered into the Patent Sale and Grant-Back License Agreement, dates as of the Effective Date (the "**Assignment Agreement**"), whereby Assignor assigned its right, title and interest in and to the Assigned Patents to Assignee; and

WHEREAS, Assignor now wishes to confirm its assignment of the Assigned Patents to Assignee as provided for in the Master Sale Agreement as further set forth below.

NOW, THEREFORE, in consideration of the foregoing and the mutual promises and agreements contained in this Agreement, and for other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. Pursuant and subject to the terms and conditions of the Master Sale Agreement, Assignor hereby transfers, assigns and conveys to Assignee its right, title, and interest throughout the world (under any and all laws and in any and all jurisdictions) in and to all of the patents, patent applications and provisional patent applications set forth on Schedule A attached hereto (collectively, the "**Assigned Patents**"), in each case, subject to all existing encumbrances. Pursuant to the foregoing assignment, each of the Assigned Patents shall hereafter be for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors and assigns, as fully and entirely as the same would have been held and enjoyed by the applicable Assignor if this Agreement had not been made. The foregoing assignment includes, without limitation, the rights of Assignor, if any, to (A) register or apply in all countries and regions for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for the Assigned Patents; (B) prosecute, maintain and defend the Assigned Patents before any public or private agency, office or registrar including by filing reissues, reexaminations, divisions, continuations, continuations-in-part, substitutes, extensions and all other applications and post issue proceedings included in the Assigned Patents; (C) claim priority based on the filing dates of any of the Assigned Patents under the International Convention for the Protection of Industrial

Property, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, and all other treaties of like purposes; and (D) sue and recover damages or other compensation for past, present or future infringements thereof, the right to sue and obtain equitable relief, including injunctive relief, in respect of such infringements, and the right to fully and entirely stand in the place of the applicable Assignor in all matters related to the Assigned Patents.

2. Authorization. Assignor also hereby expressly authorizes the respective patent office or governmental agency in each and every jurisdiction worldwide (including the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities) (the "**Applicable IP Offices**") to: (A) issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the Assignor's interest therein; and (B) record Assignee as the assignee of the Assigned Patents and to deliver to Assignee, and to Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Agreement.

3. Further Assurances. Each party hereby agrees to execute and deliver to the other party all necessary documents and take all necessary actions reasonably requested by such party from time to time to confirm or effect the assignments set forth in this Agreement, or otherwise to carry out the purposes of this Agreement, including, without limitation, by providing executed originals of short-form assignment agreements entered into by Assignor and Assignee on the Effective Date for filing or otherwise evidencing the assignments set forth in this Agreement with the Applicable IP Offices; provided, however, that nothing contained herein shall obligate Assignor to incur any cost or pay any expense in connection therewith.

4. Governing Law. This Agreement shall be governed by the laws of Delaware.

5. General Provisions. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or electronic mail shall be as effective as delivery of a manually executed counterpart of this Agreement. This Agreement may not be supplemented, altered, or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Agreement shall not waive any of its rights under such terms or provisions. In the event of a conflict between the terms and conditions of this Agreement and the terms and conditions of the Master Sale Agreement or any of the Ancillary Agreements (as defined in the Master Sale Agreement, provided that for purposes of this Agreement such term shall exclude this Agreement), the terms and conditions of the Master Agreement (or the applicable Ancillary Agreement) shall govern.

[Remainder of this page intentionally left blank.]

Assignee:

OPTIS WIRELESS TECHNOLOGY, LLC

By _____
Name: Leslie D. Ware
Title President

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

Assignor:

PANASONIC CORPORATION

By: 豊田 秀夫

Name: Hideo Toyoda

Title: Director of IntellectualProperty Center

[Signature Page to Patent Assignment Agreement – Panasonic to NewCo]

Schedule A

LIST OF ASSIGNED PATENTS

Panasonic Listed Patents

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
WiFi-001	GP017407	CN	GRANTED	Modulation method and radio communication system	99101868.0	2/1/1999	99101868	2/8/2006
WiFi-001	GP017407	KR	GRANTED	Modulation method and radio communication system	1999-2939	1/29/1999	10-331032	3/20/2002
WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	10/256202	9/27/2002	7233630	6/19/2007
WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	11/054960	2/11/2005	7289577	10/30/2007
WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	12/764512	4/21/2010	RE43338	4/22/2008
WiFi-001	GP017407	US	FILED	Modulation method and radio communication system	13/916324	6/12/2013		
WiFi-001	GP017407	JP	GRANTED	Modulation method and radio communication system	H10044983	2/26/1998	3233092	9/21/2001
WiFi-001	GP017407	JP	GRANTED	Modulation method and radio communication system	2001139786	5/10/2001	3489570	11/7/2003
WiFi-002	GP020291	US	GRANTED	Pilot signal transmission technique and digital communication system using same	09/292398	4/15/1999	6608843	8/19/2003
WiFi-002	GP020291	CN	GRANTED	Pilot signal transmission technique and digital communication system using same	99105209.9	4/16/1999	99105210	5/7/2008
WiFi-002	GP020291	KR	GRANTED	Pilot signal transmission technique and digital communication system using same	1999-13473	4/16/1999	10-0374735	2/20/2003
WiFi-002	GP020291	KR	GRANTED	Pilot signal	2002-0051032	8/28/2002	10-0432789	10/5/2004

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				transmission technique and digital communication system using same				
WiFi-002	GP020291	CN	GRANTED	Pilot signal transmission technique and digital communication system using same	200810005857.7	2/4/2008	200810005858	3/28/2012
WiFi-002	GP020391	JP	GRANTED	Pilot signal transmission technique and digital communication system using same	H10105999	4/16/1998	3166705	3/9/2001
WiFi-015	GP020307	US	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	09/317961	5/25/1999	6618352	9/9/2003
WiFi-015	GP020307	US	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	10/614291	7/8/2003	6944122	9/13/2005
WiFi-015	GP020307	GB	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	99109244.6	5/25/1999	961448	1/7/2009
WiFi-015	GP020307	DE	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	69940235.2	5/25/1999	961448	1/7/2009
WiFi-015	GP020307	JP	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	H11142244	5/21/1999	4339959	7/10/2009
WiFi-016	GP021360	US	GRANTED	OFDM communication apparatus	09/520015	3/6/2000	6625111	9/23/2003
WiFi-016	GP021360	CN	GRANTED	OFDM communication apparatus	00104041.3	3/14/2000	104041	2/2/2005
WiFi-016	GP021360	KR	GRANTED	OFDM communication apparatus	2000-0013070	3/15/2000	10-383004	4/23/2003
WiFi-016	GP021360	GB	GRANTED	OFDM	0005467.5	3/15/2000	1037443	4/30/2008

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication apparatus				
WiFi-016	GP021360	FR	GRANTED	OFDM communication apparatus	00105467.5	3/15/2000	1037442	4/30/2008
WiFi-016	GP021360	DE	GRANTED	OFDM communication apparatus	60038710.6	3/15/2000	1037442	4/30/2008
WiFi-016	GP021360	SE	GRANTED	OFDM communication apparatus	00105467.5	3/15/2000	1037442	4/30/2008
H264-002	GP028493	US	GRANTED	Motion vector coding method and motion vector decoding method	12/691195	1/21/2010	8290048	10/16/2012
H264-002	GP028493	JP	GRANTED	Motion vector coding method and motion vector decoding method	2008126012	5/9/2008	4714238	4/1/2011
H264-002	GP028493	JP	GRANTED	Motion vector coding method and motion vector decoding method	2010043127	2/26/2010	5085671	9/14/2012
WiFi-004	GP028962	US	GRANTED	Communication method and radio communication apparatus	10/486896	2/17/2004	7974371	7/5/2011
WiFi-004	GP028962	CN	GRANTED	Communication method and radio communication apparatus	02811596.2	12/5/2003	2811536	7/30/2008
WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2003-7016182	12/10/2003	10-0681069	2/2/2007
WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2006-7018562	9/11/2006	10-0816173	3/17/2008
WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2006-7018566	9/11/2006	10-0816174	3/17/2008
WiFi-004	GP028962	US	GRANTED	Communication method and radio communication apparatus	13/153731	6/6/2011	8428182	4/23/2013
WiFi-004	GP028962	US	FILED	Communication method and radio communication apparatus	13/839910	3/15/2013		
H264-003	GP029736	US	GRANTED	Variable length coding method and variable length decoding	11/976549	10/25/2007	8098736	1/17/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				method				
H264-003	GP029736	US	GRANTED	Variable length coding method and variable length decoding method	12/710731	2/23/2010	7970059	6/28/2011
LTE-014	GP029990	US	GRANTED	Method and apparatus for intermittent communication	10/517321	1/9/2006	7916674	3/29/2011
LTE-014	GP029990	CN	GRANTED	Method and apparatus for intermittent communication	03818665.1	2/3/2005	3818665	4/15/2009
LTE-014	GP029990	CN	GRANTED	Method and apparatus for intermittent communication	200910008457.6	2/2/2009	200910008457.6	8/29/2012
LTE-014	GP029990	US	GRANTED	Method and apparatus for intermittent communication	13/030938	2/18/2011	8559347	10/15/2013
LTE-014	GP029990	EP	FILED	Method and apparatus for intermittent communication	03715471.3	12/17/2004		
LTE-014	GP029990	EP	FILED	Method and apparatus for intermittent communication	12167195.2	5/8/2012		
H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	11/976551	10/25/2007	8139878	3/20/2012
H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	11/976758	10/26/2007	7769238	8/3/2010
H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	12/240379	9/29/2008	8290286	10/16/2012
H264-001	GP030156	JP	GRANTED	Picture coding method and picture decoding method	2008186637	7/18/2008	4191793	9/26/2008
H264-001	GP030156	JP	GRANTED	Picture coding method and picture decoding method	2011053602	3/10/2011	4741716	5/13/2011
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	10/516937	12/14/2004	7370626	8/4/2009
LTE-013	GP030648	CN	GRANTED	Communication method	038169134	1/17/2005	3816913	8/29/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				transmitting device using the same, and receiving device using the same				
LTE-013	GP030648	KR	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2004-7014540	9/15/2004	10-0915750	8/28/2009
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	12/417284	4/2/2009	7787432	8/31/2010
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	12/541403	8/14/2009	7907587	3/15/2011
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	12/842398	7/23/2010	8023488	9/20/2011
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	13/010146	1/20/2011	8089945	1/3/2012
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	13/010150	1/20/2011	8173070	5/8/2012
LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	13/433677	3/29/2012	8400996	3/19/2013
LTE-013	GP030648	CN	FILED	Communication method, transmitting	201210247631.4	7/17/2012		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				device using the same, and receiving device using the same				
LTE-013	GP030648	US	FILED	Communication method, transmitting device using the same, and receiving device using the same	13/730199	2/19/2013		
LTE-013	GP030648	EP	FILED	Communication method, transmitting device using the same, and receiving device using the same	03764205.3	1/10/2005		
LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2003275711	7/16/2003	4137843	5/16/2008
LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2008129735	5/16/2008	4491025	4/9/2010
LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2009138641	6/9/2009	4331735	7/31/2009
LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2009140261	6/11/2009	4413061	11/27/2009
LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2009191127	8/20/2009	5000690	5/25/2012
LTE-015	GP032416	US	GRANTED	Radio communication apparatus and radio	10/540401	6/23/2005	8254335	8/28/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication method				
LTE-015	GP032416	CN	GRANTED	Radio communication apparatus and radio communication method	200380107347.6	6/23/2005	200380107348	5/5/2010
LTE-015	GP032416	KR	GRANTED	Radio communication apparatus and radio communication method	2005-7009489	5/26/2005	10-0708291	4/10/2007
LTE-015	GP032416	IN	GRANTED	Radio communication apparatus and radio communication method	1360/CHENP/2005	6/22/2005	215404	2/26/2008
LTE-015	GP032416	US	GRANTED	Radio communication apparatus and radio communication method	12/341308	12/22/2008	8369285	2/5/2013
LTE-015	GP032416	CN	GRANTED	Radio communication apparatus and radio communication method	201010126252.0	2/26/2010	201010126252	3/23/2012
LTE-015	GP032416	US	FILED	Radio communication apparatus and radio communication method	13/733744	1/3/2013		
LTE-015	GP032416	GB	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2003	1578043	4/24/2013
LTE-015	GP032416	DE	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2003	1578043	4/24/2013
LTE-015	GP032416	FR	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2003	1578043	4/24/2013
LTE-015	GP032416	EP	FILED	Radio communication apparatus and radio communication method	12183169.7	9/3/2012		
LTE-015	GP032416	EP	FILED	Radio communication apparatus and	12183168.9	9/3/2012		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				radio communication method				
LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2002378036	12/26/2002	4256158	2/6/2009
LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2007318449	12/10/2007	4734314	4/28/2011
LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2008233711	9/11/2008	4738389	4/28/2011
LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2010237813	10/22/2010	4785982	7/22/2011
LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2011123416	6/1/2011	5306416	7/5/2013
LTE-018	GP034251	US	GRANTED	Method and apparatus for controlling a transport format of a retransmission	10/593496	9/28/2006	7783949	8/24/2010
LTE-018	GP034251	JP	GRANTED	Method and apparatus for controlling a transport format of a retransmission	2007505414	9/29/2006	4700049	3/11/2011
LTE-018	GP034251	JP	GRANTED	Method and apparatus for controlling a transport format of a retransmission	2010147761	6/29/2010	Not Issued yet	
LTE-018	GP034251	US	GRANTED	Method and apparatus for controlling a transport format of a retransmission	12/835696	7/13/2010	7979770	7/12/2011
LTE-018	GP034251	US	GRANTED	Method and apparatus for controlling a transport format of a retransmission	13/154163	6/6/2011		
LTE-018	GP034251	JP	GRANTED	Method and apparatus for	2011258783	11/28/2011	Not Issued yet	

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				controlling a transport format of a retransmission				
LTE-018	GP034231	US	FILED	Method and apparatus for controlling a transport format of a retransmission	13/849082	3/22/2013		
LTE-018	GP034231	EP	FILED	Method and apparatus for controlling a transport format of a retransmission	10168135.9	7/1/2010		
LTE-020	GP034494	US	GRANTED	Method and apparatus for multicarrier communication	10/559472	1/31/2006	7817729	10/19/2010
LTE-020	GP034494	CN	GRANTED	Method and apparatus for multicarrier communication	200480016398.2	12/12/2003	200480016398	7/27/2011
LTE-020	GP034494	KR	GRANTED	Method and apparatus for multicarrier communication	2005-7023743	12/8/2005	10-0698881	3/16/2007
LTE-020	GP034494	US	GRANTED	Method and apparatus for multicarrier communication	12/901220	10/8/2010	8208569	6/26/2012
LTE-020	GP034494	CN	FILED	Method and apparatus for multicarrier communication	201110186215.3	7/5/2011		
LTE-020	GP034494	JP	GRANTED	Method and apparatus for multicarrier communication	2003168287	6/12/2003	3847733	9/1/2006
LTE-005	GP037015	JP	GRANTED	Random access method and radio communication terminal device	2006510667	7/10/2006	4734233	4/28/2011
LTE-005	GP037015	US	GRANTED	Random access method and radio communication terminal device	10/591712	9/6/2006	7873000	1/18/2011
LTE-005	GP037015	CN	GRANTED	Random access method and radio communication terminal device	200580006844.6	9/4/2005	200580006845	7/15/2009
LTE-005	GP037015	BR	FILED	Random access method and radio communication terminal device	PI0508580-2	9/8/2005		
LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2006-7018471	9/8/2006	10-1100979	12/23/2011

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
LTE-005	GP037015	RU	GRANTED	Random access method and radio communication terminal device	2006132728	9/12/2006	2389158	5/10/2010
LTE-005	GP037015	RU	GRANTED	Random access method and radio communication terminal device	2010102421	1/25/2010	Not Issued yet	
LTE-005	GP037015	JP	GRANTED	Random access method and radio communication terminal device	2010212120	9/22/2010	4776738	7/8/2011
LTE-005	GP037015	US	GRANTED	Random access method and radio communication terminal device	12/965641	12/10/2010	8000295	8/16/2011
LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2011-7005838	2/18/2011	10-1103230	12/29/2011
LTE-005	GP037015	JP	FILED	Random access method and radio communication terminal device	2011189322	8/16/2011		
LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2011-7012079	5/27/2011	10-1100996	12/23/2011
LTE-005	GP037015	US	FILED	Random access method and radio communication terminal device	13/158014	6/10/2011		
LTE-005	GP037015	EP	FILED	Random access method and radio communication terminal device	06719546.1	8/31/2006		
LTE-005	GP037015	EP	FILED	Random access method and radio communication terminal device	13162780.4	4/8/2013		
LTE-006	GP037202	US	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	11/632208	1/11/2007	7809371	10/5/2010
LTE-006	GP037202	CN	GRANTED	Wireless transmission method, and communication terminal apparatus, for	200580023778.3	1/15/2007	200580023778	9/26/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				accessing a random access channel				
LTE-006	GP037202	BR	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	PI0511838-1	1/15/2007		
LTE-006	GP037202	KR	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2007-7000638	1/10/2007	10-1085773	12/12/2011
LTE-006	GP037202	RU	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2007105499	2/14/2007	2405284	11/27/2010
LTE-006	GP037202	IN	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	1569/MUMNP/2006	12/19/2006		
LTE-006	GP037202	CA	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2572744	1/8/2007		
LTE-006	GP037202	US	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	12/847791	7/30/2010	7974623	7/5/2011
LTE-006	GP037202	US	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access	13/116741	5/26/2011	8351936	1/8/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				channel				
LTE-006	GP037202	GB	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	05760149.4	12/21/2006	1758415	4/3/2013
LTE-006	GP037202	DE	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	05760149.4	12/21/2006	1758415	4/3/2013
LTE-006	GP037202	FR	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	05760149.4	12/21/2006	1758415	4/3/2013
LTE-006	GP037202	IN	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	1033/MUMNP/2013	6/3/2013		
LTE-006	GP037202	JP	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2005200276	7/8/2005	4762819	6/17/2011
LTE-009	GP040011	US	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	12/060,115	9/4/2008	8102880	1/24/2012
LTE-009	GP040011	CN	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	200880034713.3	3/20/2008	200880034713	7/4/2012
LTE-009	GP040011	KR	GRANTED	Method and	2008-7007047	4/18/2008	10-1286415	7/9/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				apparatus for packet segmentation and concatenation signaling in a communication system				
LTE-009	GP040011	JP	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2008531558	3/19/2008	4866908	11/18/2011
LTE-009	GP040011	BR	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	PI0617569-4	3/19/2008		
LTE-009	GP040011	RU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2008115463	4/18/2008	2430481	9/27/2011
LTE-009	GP040011	IN	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	1124/KOLNP/2008	3/17/2008		
LTE-009	GP040011	CA	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2622193	3/14/2008		
LTE-009	GP040011	AU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2006299273	3/11/2008	2006299273	9/19/2011
LTE-009	GP040011	ZA	GRANTED	Method and apparatus for packet	2008/03354	4/16/2008	2008/03354	2/25/2009

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				segmentation and concatenation signaling in a communication system				
LTE-009	GP040011	VN	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	1-2008-00929	4/18/2008	8757	9/27/2010
LTE-009	GP040011	DE	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	602005018252.3	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	FR	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	GB	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	SE	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	NL	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	CH	GRANTED	Method and apparatus for packet segmentation and	05020513.7	9/20/2005	1764980	10/8/2008

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				concatenation signaling in a communication system				
LTE-009	GP040011	US	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	IT	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	FI	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
LTE-009	GP040011	AU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2011201586	4/7/2011	2011201586	8/23/2012
LTE-009	GP040011	KR	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2011-7018998	8/16/2011	Not issued yet	
LTE-009	GP040011	JP	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2011118983	5/27/2011	4981015	5/11/2012
LTE-009	GP040011	RU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a	2011122892	6/6/2011	2470479	12/20/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication system				
LTE-009	GP040011	US	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	13/322890	12/16/2011	8494003	7/23/2013
LTE-009	GP040011	JP	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2012060607	3/16/2012	5261587	5/2/2013
LTE-009	GP040011	CN	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	201210126412.0	4/26/2012		
LTE-009	GP040011	JP	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2013033122	3/18/2013		
LTE-009	GP040011	US	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	13/924399	6/21/2013		
LTE-009	GP040011	EP	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	06777073.3	3/14/2008		
LTE-017	GP040107	JP	GRANTED	Mobile station device	2007529160	12/26/2007	4703651	3/18/2011
LTE-017	GP040107	US	GRANTED	Mobile station device	11/997710	2/5/2009	8139662	3/20/2012
LTE-017	GP040107	CN	GRANTED	Mobile station device	200580051083.6	1/15/2008	200580051084	10/13/2010
LTE-017	GP040107	CN	GRANTED	Mobile station device	201010269078.5	9/1/2010	201010269079	1/2/2013
LTE-017	GP040107	US	GRANTED	Mobile station	13/160872	6/15/2011	8155227	4/10/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				device				
LTE-017	GP040107	EP	FILED	Mobile station device	05768859.0	1/25/2008		
LTE-017	GP040107	JP	GRANTED	Mobile station device	2009257284	11/10/2009	4903251	1/13/2012
LTE-016	GP041536	US	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	12/094267	5/19/2008	8412211	4/2/2013
LTE-016	GP041536	CA	FILED	Transmission and reception of broadcast system information in a mobile communication system	2627748	4/29/2008		
LTE-016	GP041536	KR	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2008-7016988	7/11/2008	10-1242996	3/6/2013
LTE-016	GP041536	CN	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	200680047090.3	6/13/2008	Not issued yet	
LTE-016	GP041536	IN	FILED	Transmission and reception of broadcast system information in a mobile communication system	1714/KOLNP/2008	4/29/2008		
LTE-016	GP041536	RU	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2008128443	7/11/2008	2418390	5/10/2011
LTE-016	GP041536	BR	FILED	Transmission and reception of broadcast system information in a mobile communication system	PI0620576-3	6/4/2008		
LTE-016	GP041536	VN	GRANTED	Transmission and reception of broadcast system	1-2008-01733	7/11/2008	8909	12/13/2010

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				information in a mobile communication system				
LTE-016	GP041536	JP	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2008544778	6/12/2008	4977713	4/20/2012
LTE-016	GP041536	VN	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	1-2010-03415	9/10/2010	10845	11/26/2012
LTE-016	GP041536	RU	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2010150919	12/13/2010	2461991	9/20/2012
LTE-016	GP041536	JP	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2011118166	5/26/2011	5080638	8/10/2012
LTE-016	GP041536	KR	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2011-7012478	5/31/2011	10-1242781	3/6/2013
LTE-016	GP041536	JP	FILED	Transmission and reception of broadcast system information in a mobile communication system	2012138830	6/20/2012		
LTE-016	GP041536	US	FILED	Transmission and reception of broadcast system information in a mobile communication system	13/786098	3/5/2013		
LTE-016	GP041536	CN	FILED	Transmission and reception of broadcast system information in a	201310375510.2	8/26/2013		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				mobile communication system				
LTE-016	GP041536	EP	FILED	Transmission and reception of broadcast system information in a mobile communication system	11173827.4	10/20/2006		
LTE-016	GP041536	EP	FILED	Transmission and reception of broadcast system information in a mobile communication system	11173828.2	7/13/2011		
LTE-001	GP042833	JP	GRANTED	Radio communication apparatus and radio communication method	2008511925	8/6/2008	4575492	8/27/2010
LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	12/297617	10/17/2008	7940851	5/10/2011
LTE-001	GP042833	CN	GRANTED	Radio communication apparatus and radio communication method	200680054270.4	10/20/2006	200680054270	1/5/2013
LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	13/075042	3/29/2011	8130861	3/6/2012
LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	13/336806	12/23/2011	8526527	9/3/2013
LTE-001	GP042833	GB	GRANTED	Radio communication apparatus and radio communication method	06732219.8	10/20/2006	2007050	12/12/2012
LTE-001	GP042833	FR	GRANTED	Radio communication apparatus and radio communication method	06732219.8	10/20/2006	2007050	12/12/2012
LTE-001	GP042833	DE	GRANTED	Radio communication apparatus and radio	06732219.8	10/20/2006	2007050	12/12/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication method				
LTE-001	GP042833	GB	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
LTE-001	GP042833	FR	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
LTE-001	GP042833	DE	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
LTE-001	GP042833	CN	FILED	Radio communication apparatus and radio communication method	201210488199.8	11/26/2012		
LTE-001	GP042833	JP	GRANTED	Radio communication apparatus and radio communication method	2009257283	11/10/2009	5025712	6/29/2012
WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	11/577791	4/23/2007	7826553	11/2/2010
WiFi-009	GP043345	CN	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	200680030825.1	2/22/2008	200680030825	3/14/2012
WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	12/840024	7/20/2010	8005165	8/23/2011
WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	13/171121	6/28/2011	8284866	10/9/2012
WiFi-009	GP043345	CN	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	201210014945.X	1/17/2012		
WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and	13/604531	9/5/2012		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				MIMO- OFDM transmission method				
WiFi-009	GP043345	US	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	14/067737	10/30/2013		
WiFi-009	GP043345	EP	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	06783087.5	2/15/2008		
WiFi-009	GP043345	JP	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	2006228537	8/24/2006	5002215	5/25/2012
LTE-011	GP044766	US	GRANTED	Radio communication mobile station apparatus and radio communication method	12/293530	9/18/2008	8139473	3/20/2012
LTE-011	GP044766	CN	GRANTED	Radio communication mobile station apparatus and radio communication method	200780010212.6	3/22/2008	200780010213	3/27/2013
LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2008506313	6/25/2008	4887387	12/16/2011
LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2010265294	11/29/2010	4722223	4/13/2011
LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2011091089	4/15/2011	5323119	7/26/2013
LTE-011	GP044766	US	GRANTED	Radio communication mobile station apparatus and radio communication method	13/333805	12/21/2011	8411557	4/2/2013
LTE-011	GP044766	CN	FILED	Radio communication	201310022866.8	1/22/2013		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				mobile station apparatus and radio communication method				
LTE-011	GP044766	US	FILED	Radio communication mobile station apparatus and radio communication method	13/781142	2/28/2013		
LTE-011	GP044766	EP	FILED	Radio communication mobile station apparatus and radio communication method	07739138.1	9/17/2008		
LTE-019	GP048526	US	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	12/809423	8/16/2010	8385284	2/26/2013
LTE-019	GP048526	CN	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	200880125167.3	7/30/2010	200880125167	6/5/2013
LTE-019	GP048526	BR	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	PI0819508-0	6/18/2010		
LTE-019	GP048526	JP	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2010538465	6/18/2010	5342563	8/16/2013
LTE-019	GP048526	KR	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	2010-7016300	7/20/2010		
LTE-019	GP048526	IN	FILED	Control channel signaling using a common signaling field for transport format and	2119/KOLNP/2010	6/8/2010		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				redundancy version				
LTE-019	GP048526	RU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2010130185	7/19/2010	2473175	1/20/2013
LTE-019	GP048526	VN	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	1-2010-01868	7/20/2010		
LTE-019	GP048526	SG	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	201004260-4	6/16/2010	162356	10/14/2011
LTE-019	GP048526	MY	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	PI20100026O8	6/9/2010		
LTE-019	GP048526	AU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2008340731	6/8/2010	2008340731	1/31/2013
LTE-019	GP048526	DE	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	FR	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	GB	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy	07024829.9	12/20/2007	2073419	10/26/2011

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				version				
LTE-019	GP048526	IT	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	ES	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	TR	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	HU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	CZ	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	07024829.9	12/20/2007	2073419	10/26/2011
LTE-019	GP048526	SG	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	201106612-3	9/22/2011		
LTE-019	GP048526	JP	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2011175726	8/11/2011	4897105	1/6/2012
LTE-019	GP048526	DE	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
LTE-019	GP048526	GB	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	FR	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	IT	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2013	2223453	8/1/2012
LTE-019	GP048526	ES	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	TR	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	HU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	CZ	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
LTE-019	GP048526	RU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2012142306	10/4/2012	2495529	10/10/2013
LTE-019	GP048526	AU	FILED	Control channel	2013200180	1/14/2013		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				signaling using a common signaling field for transport format and redundancy version				
LTE-019	GP048526	US	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	13/744244	1/17/2013		
LTE-019	GP048526	CN	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	201310132703.5	4/17/2013		
LTE-019	GP048526	JP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	2013129847	6/20/2013		
LTE-019	GP048526	EP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	11175779.3	7/28/2011		
LTE-019	GP048526	EP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	13172756.6	6/15/2012		
LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement method	12/512352	9/21/2009	7941153	5/10/2011
LTE-010	GP048894	CA	FILED	Radio communication base station device and control channel arrangement method	2650403	9/8/2009		
LTE-010	GP048894	CN	GRANTED	Radio communication base station device and	200880007766.3	9/9/2009	200880007767	1/2/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				control channel arrangement method				
LTE-010	GP048894	KR	FILED	Radio communication base station device and control channel arrangement method	2009-7019814	9/23/2009		
LTE-010	GP048894	IN	FILED	Radio communication base station device and control channel arrangement method	1721/MUMNP/2009	9/10/2009		
LTE-010	GP048894	VN	GRANTED	Radio communication base station device and control channel arrangement method	1-2009-01919	9/11/2009	Not issued yet	
LTE-010	GP048894	RU	GRANTED	Radio communication base station device and control channel arrangement method	2009135398	9/22/2009	2458483	8/10/2012
LTE-010	GP048894	BR	FILED	Radio communication base station device and control channel arrangement method	PI0909234-0	9/23/2009		
LTE-010	GP048894	ZA	GRANTED	Radio communication base station device and control channel arrangement method	2009/06603	9/22/2009	2009/06603	5/25/2011
LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2009510767	6/25/2009	4621291	11/5/2010
LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2010241985	10/28/2010	4659922	1/7/2011
LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement	12/883770	9/3/2011	8064919	11/22/2011

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				method				
LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2010284023	12/21/2010	5079075	9/7/2012
LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement method	13/271942	10/12/2011	8200237	6/12/2012
LTE-010	GP048894	US	FILED	Radio communication base station device and control channel arrangement method	13/470106	5/11/2012		
LTE-010	GP048894	RU	GRANTED	Radio communication base station device and control channel arrangement method	2012117102	4/26/2012	Not Issued yet	
LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2012184061	8/23/2012	Not Issued yet	
LTE-010	GP048894	CN	FILED	Radio communication base station device and control channel arrangement method	201310427338.3	10/31/2012		
LTE-010	GP048894	GB	FILED	Radio communication base station device and control channel arrangement method	08720555.3	9/11/2009		
LTE-010	GP048894	FR	FILED	Radio communication base station device and control channel arrangement method	08720555.3	9/11/2009		
LTE-010	GP048894	DE	FILED	Radio communication base station device and control channel arrangement method	08720555.3	9/11/2009		
LTE-010	GP048894	IT	FILED	Radio	08720555.3	9/11/2009		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication base station device and control channel arrangement method				
LTE-010	GP048894	ES	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
LTE-010	GP048894	NL	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
LTE-010	GP048894	TR	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
LTE-010	GP048894	IE	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
LTE-010	GP048894	SE	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
LTE-010	GP048894	GB	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	FR	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	DE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	IT	FILED	Radio communication base station	12159433.7	3/14/2012		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				device and control channel arrangement method				
LTE-010	GP048894	ES	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	NL	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	TR	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	IE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	SE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
LTE-010	GP048894	EP	GRANTED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009	Not issued yet	
LTE-010	GP048894	EP	GRANTED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012	Not issued yet	
LTE-010	GP048894	EP	FILED	Radio communication base station device and control channel arrangement method				
LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading	12/593804	9/29/2009	8009721	8/30/2011

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				method				
LTE-003	GP049091	CN	GRANTED	Wireless communication apparatus and response signal spreading method	200880020332.9	12/15/2009	Not issued yet	
LTE-003	GP049091	KR	FILED	Wireless communication apparatus and response signal spreading method	2009-7024918	11/18/2009		
LTE-003	GP049091	IN	FILED	Wireless communication apparatus and response signal spreading method	2132/MUMNP/2009	11/16/2009		
LTE-003	GP049091	ID	GRANTED	Wireless communication apparatus and response signal spreading method	W00200903449	12/8/2009	ID0030356	3/6/2012
LTE-003	GP049091	VN	GRANTED	Wireless communication apparatus and response signal spreading method	1-2009-02360	10/23/2009	Not issued yet	
LTE-003	GP049091	BR	FILED	Wireless communication apparatus and response signal spreading method	PI0812534-1	12/14/2009		
LTE-003	GP049091	MX	GRANTED	Wireless communication apparatus and response signal spreading method	2009/011333	10/20/2009	286976	3/27/2011
LTE-003	GP049091	RU	GRANTED	Wireless communication apparatus and response signal spreading method	2009146294	12/14/2009	2480908	4/27/2013
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2008519168	7/27/2009	4505043	4/30/2010
LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	12/845361	7/28/2010	7848299	12/7/2010
LTE-003	GP049091	MX	GRANTED	Wireless communication apparatus and response signal	2011005439	5/23/2011	300968	7/5/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				spreading method				
LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/165538	6/21/2011	8179947	5/15/2012
LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/280190	10/24/2011	8199792	6/12/2012
LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/301643	11/21/2011	8311079	11/13/2012
LTE-003	GP049091	DK	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	GB	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	FR	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	DE	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	IT	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	ES	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	TR	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
LTE-003	GP049091	FI	GRANTED	Wireless communication apparatus and	08764121.3	12/10/2009	2159925	12/5/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				response signal spreading method				
LTE-003	GP049091	US	FILED	Wireless communication apparatus and response signal spreading method	13/648976	10/10/2012		
LTE-003	GP049091	RU	FILED	Wireless communication apparatus and response signal spreading method	2012158156	12/28/2012		
LTE-003	GP049091	KR	FILED	Wireless communication apparatus and response signal spreading method	2013-7002029	1/25/2013		
LTE-003	GP049091	DK	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	GB	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	FR	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	DE	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	IT	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	ES	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	TR	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
LTE-003	GP049091	FI	GRANTED	Wireless communication	12153993.6	2/6/2012	2458759	8/7/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				apparatus and response signal spreading method				
LTE-003	GP049091	CN	FILED	Wireless communication apparatus and response signal spreading method	201310492316.X	10/18/2013		
LTE-003	GP049091	CN	FILED	Wireless communication apparatus and response signal spreading method	201310492202.8	10/18/2013		
LTE-003	GP049091	EP	FILED	Wireless communication apparatus and response signal spreading method	13163350.3	4/25/2013		
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2010044158	3/1/2010	4546580	7/9/2010
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2010044159	3/1/2010	4768862	8/24/2011
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011133224	6/15/2011	4943682	3/16/2012
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011139547	6/23/2011	4846060	10/21/2011
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011175572	8/11/2011	4872029	11/25/2011
LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2012039742	2/27/2012	5350505	8/30/2013
LTE-003	GP049091	JP	FILED	Wireless communication apparatus and response signal spreading method	2013170296	8/20/2013		
LTE-002	GP049514	US	GRANTED	Radio	12/600835	11/18/2009	7965760	6/21/2011

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				communication device and response signal diffusion method				
LTE-012	GP049514	KR	FILED	Radio communication device and response signal diffusion method	2010-7003036	2/10/2010		
LTE-012	GP049514	IN	FILED	Radio communication device and response signal diffusion method	2300/MUMNP/2009	12/10/2009		
LTE-012	GP049514	ID	GRANTED	Radio communication device and response signal diffusion method	W00201000433	2/9/2010	ID0032030	10/17/2012
LTE-013	GP049514	VN	GRANTED	Radio communication device and response signal diffusion method	1-2010-00061	1/11/2010	10842	11/12/2012
LTE-012	GP049514	RU	GRANTED	Radio communication device and response signal diffusion method	2010105059	2/12/2010	2481711	5/10/2013
LTE-012	GP049514	BR	FILED	Radio communication device and response signal diffusion method	PI0823202-4	1/29/2010		
LTE-012	GP049514	MX	GRANTED	Radio communication device and response signal diffusion method	2010/001406	2/4/2010	289719	8/26/2011
LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2009528033	9/10/2009	4933169	3/14/2010
LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	12/850988	8/5/2010	8121175	2/21/2012
LTE-012	GP049514	MX	GRANTED	Radio communication device and response signal diffusion method	2011/008385	8/5/2011	303845	9/28/2012

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	13/349435	1/12/2012	8275021	9/25/2012
LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	13/571207	8/9/2012	8467432	6/18/2013
LTE-012	GP049514	FR	GRANTED	Radio communication device and response signal diffusion method	1215365?.?	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	DE	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	GB	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	IT	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	ES	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	DK	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	TR	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	FI	GRANTED	Radio communication device and response signal diffusion method	121536S7.7	2/2/2012	2451103	2/20/2013
LTE-012	GP049514	FR	GRANTED	Radio communication device and response signal diffusion	087904470	3/8/2010	2187549	3/20/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				method				
LTE-012	GP049514	DE	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	GB	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	IT	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	ES	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	DK	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	TR	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	FI	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
LTE-012	GP049514	RU	FILED	Radio communication device and response signal diffusion method	2012155872	12/21/2012		
LTE-012	GP049514	CN	FILED	Radio communication device and response signal diffusion method	201310059319.7	2/26/2013		
LTE-012	GP049514	CN	FILED	Radio communication device and response signal diffusion method	201310059318.2	2/26/2013		
LTE-012	GP049514	KR	FILED	Radio communication device and response signal	2013-7006025	3/8/2013		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				diffusion method				
LTE-012	GP049514	US	FILED	Radio communication device and response signal diffusion method	13/860398	4/10/2013		
LTE-012	GP049514	EP	GRANTED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013	Not Issued yet	
LTE-012	GP049514	EP	FILED	Radio communication device and response signal diffusion method				
LTE-012	GP049514	EP	FILED	Radio communication device and response signal diffusion method				
LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2010044173	3/1/2010	5489339	12/7/2012
LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2012259980	11/28/2012	Not Issued yet	
LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	12/740909	4/29/2010	8259781	9/4/2012
LTE-004	GP050452	CN	GRANTED	Radio communication device and constellation control method	200880111628.1	4/14/2010	200880111628	7/31/2013
LTE-004	GP050452	KR	FILED	Radio communication device and constellation control method	2010-7008252	4/15/2010		
LTE-004	GP050452	IN	FILED	Radio communication device and constellation control method	879/MUMNP/2010	4/28/2010		
LTE-004	GP050452	VN	GRANTED	Radio communication device and constellation control method	1-2010-01048	4/26/2010	11343	4/23/2013
LTE-004	GP050452	MY	FILED	Radio communication	PI2010001932	4/29/2010		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				device and constellation control method				
LTE-004	GP050452	RU	GRANTED	Radio communication device and constellation control method	2010116896	4/28/2010	2475172	1/20/2013
LTE-004	GP050452	CA	FILED	Radio communication device and constellation control method	2703864	4/27/2010		
LTE-004	GP050452	BR	FILED	Radio communication device and constellation control method	PI0818271-0	4/29/2010		
LTE-004	GP050452	ZA	GRANTED	Radio communication device and constellation control method	2010/02938	4/28/2010	2010/02938	7/27/2011
LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2009538925	1/27/2010	4991875	5/11/2012
LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2011273382	12/14/2011	4991964	5/11/2012
LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2011273383	12/14/2011	5377619	10/4/2013
LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	13/525103	6/15/2012	8363698	1/29/2013
LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	13/525109	6/15/2012	8369382	2/5/2013
LTE-004	GP050452	RU	FILED	Radio communication device and constellation control method	2012139972	9/18/2012		
LTE-004	GP050452	US	FILED	Radio communication device and constellation control method	13/732913	1/2/2013		
LTE-004	GP050452	JP	FILED	Radio communication device and constellation control method	2013114053	5/30/2013		
LTE-004	GP050452	EP	FILED	Radio communication	08845779.1	4/28/2010		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				device and constellation control method				
LTE-004	GP050452	EP	FILED	Radio communication device and constellation control method	12150342.1	1/5/2012		
LTE-004	GP050452	EP	FILED	Radio communication device and constellation control method	12150294.2	1/5/2012		
LTE-007	GP051123	JP	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2009531439	7/30/2010	4723034	4/15/2011
LTE-007	GP051123	US	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	12/865674	7/30/2010	8396081	3/12/2013
LTE-007	GP051123	CN	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	200980103901.0	8/2/2010		
LTE-007	GP051123	KR	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2010-7016343	7/21/2010		
LTE-007	GP051123	BR	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	PI0907033-0	7/20/2010		
LTE-007	GP051123	RU	GRANTED	Communication terminal and base station communication method using MAC control information	2010136716	9/1/2010	2491773	8/27/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				priorities and SRB priorities				
LTE-007	GP051123	VN	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	1-2010-01968	7/29/2010		
LTE-007	GP051123	AU	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2009208525	3/30/2010	2009208525	8/8/2013
LTE-007	GP051123	SG	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	201005524-2	7/29/2010	163748	8/15/2011
LTE-007	GP051123	MY	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	PI2010003464	7/21/2010		
LTE-007	GP051123	IN	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	4675/CHENP/2010	7/26/2010		
LTE-007	GP051123	JP	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2011028742	2/14/2011	5030316	7/6/2012
LTE-007	GP051123	SG	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	201105463-2	7/28/2011		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
LTE-007	GP051123	JP	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2012027571	2/10/2012	5246975	4/19/2013
LTE-007	GP051123	US	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	13/722742	12/20/2012		
LTE-007	GP051123	EP	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	09705415.9	7/30/2010		
LTE-014	GP470793	JP	GRANTED	Method and apparatus for intermittent communication	2001305740	10/1/2001	4003783	8/31/2007
LTE-014	GP470793	JP	GRANTED	Method and apparatus for intermittent communication	2007134819	5/21/2007	4312115	5/14/2010
LTE-012	GP049514	FR	FILED	Radio communication device and response signal diffusion method	13151929	1/18/2013		
LTE-012	GP049514	DE	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	GB	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	IT	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	ES	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
LTE-012	GP049514	DK	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	TR	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	FI	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
LTE-012	GP049514	JP	FILED	Radio communication device and response signal diffusion method	2013-241911			
WiFi-017	GP033344	CN	GRANTED	Service in wlan inter-working, address management system, and method	200480006956.7	3/14/2005	200480006957	7/23/2008
WiFi-017	GP033344	KR	GRANTED	Service in wlan inter-working, address management system, and method	2005-7012955	7/13/2005	10-0999761	12/2/2010
WiFi-017	GP033344	IN	FILED	Service in wlan inter-working, address management system, and method	3234/DELNP/2005	7/21/2005		
WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	10/541447	4/7/2006	7610038	10/27/2009
WiFi-017	GP033344	CA	GRANTED	Service in wlan inter-working, address management system, and method	2512939	7/8/2005	2512939	3/26/2013
WiFi-017	GP033344	SG	GRANTED	Service in wlan inter-working, address management system, and method	200504814-5	7/6/2005	114084	7/31/2006
WiFi-017	GP033344	CN	GRANTED	Service in wlan inter-working, address management system, and	200810099826.2	5/29/2008	200810099826	1/3/2013

Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
				method				
WiFi-017	GP033344	KR	GRANTED	Service in wlan inter-working, address management system, and method	2009-7008313	4/23/2009	10-0967749	6/25/2010
WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	12/553468	9/14/2009	8081971	12/20/2011
WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	13/292874	11/9/2011	8374580	2/12/2013
WiFi-017	GP033344	US	FILED	Service in wlan inter-working, address management system, and method	13/737366	1/9/2013		
WiFi-017	GP033344	EP	FILED	Service in wlan inter-working, address management system, and method	04702063.1	7/6/2005		
WiFi-017	GP033344	EP	FILED	Service in wlan inter-working, address management system, and method	12170887.9	6/5/2012		
WiFi-017	GP033344	JP	GRANTED	Service in wlan inter-working, address management system, and method	2003006175	1/14/2003	4270888	3/6/2009
WiFi-017	GP033344	JP	GRANTED	Service in wlan inter-working, address management system, and method	2008312519	12/8/2008	4802238	8/12/2011

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP022454	US	GRANTED	Radio communication system, communication terminal apparatus, base station apparatus, and radio communication equalizing method	09/856872	5/29/2001	6609011	8/19/2003

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP022454	CN	GRANTED	Radio communication system, communication terminal apparatus, base station apparatus, and radio communication equalizing method	00801889.8	5/8/2001	801890	6/2/2004
GP022454	KR	GRANTED	Radio communication system, communication terminal apparatus, base station apparatus, and radio communication equalizing method	2001-7006846	5/28/2001	10-0435611	5/22/2004
GP025237	US	GRANTED	Radio base station apparatus and radio communication method	10/069396	2/26/2002	7133698	11/7/2006
GP025237	CN	GRANTED	Radio base station apparatus and radio communication method	01801760.6	2/21/2002	1801761	7/14/2004
GP025237	GB	GRANTED	Radio base station apparatus and radio communication method	01941237.8	2/27/2002	1206050	11/2/2011
GP025237	FR	GRANTED	Radio base station apparatus and radio communication method	01941237.8	2/27/2002	1206050	11/2/2011
GP025237	DE	GRANTED	Radio base station apparatus and radio communication method	01941237.8	2/27/2002	1206050	11/2/2011
GP027526	US	GRANTED	Diversity receiver	10/140889	5/9/2002	6922433	7/26/2005
GP028732	US	GRANTED	Radio communication apparatus and radio communication method	10/450566	6/16/2003	7839739	11/23/2010
GP028732	CN	GRANTED	Radio communication apparatus and radio communication method	02804205.0	3/28/2003	2804205	12/3/2008
GP028732	DE	GRANTED	Radio communication apparatus and radio communication method	02741424.2	7/3/2003	1347588	3/20/2013
GP032204	US	GRANTED	Method for encoding sound source of probabilistic code book	10/533417	6/2/2005	7577566	8/18/2009
GP032204	CN	GRANTED	Method for encoding sound source of probabilistic code book	200380102898.6	5/11/2005	200380102899	9/3/2010
GP032204	KR	GRANTED	Method for encoding sound source of probabilistic code book	2005-7006362	4/15/2005	10-0736504	6/29/2007
GP032204	IN	GRANTED	Method for encoding sound source of probabilistic code book	983/KOLNP/2005	5/16/2005	246634	3/8/2011
GP033434	US	GRANTED	OFDM signal collision position detection apparatus and OFDM reception device	10/542772	7/20/2005	7626919	12/1/2009
GP033434	CN	GRANTED	OFDM signal collision position detection apparatus and OFDM reception device	200480002913.1	7/27/2005	300480002913	4/28/2010
GP033434	US	GRANTED	OFDM signal collision position detection apparatus and OFDM reception device	12/573812	10/5/2009	8000226	8/16/2011

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP034437	US	GRANTED	Method and scheduler for performing a scheduling algorithm with minimum resource parameter	10/594366	10/1/2007	8028287	9/27/2011
GP034437	CN	GRANTED	Method and scheduler for performing a scheduling algorithm with minimum resource parameter	200480042663.4	9/30/2008	200480042663	3/3/2010
GP034437	DE	GRANTED	Method and scheduler for performing a scheduling algorithm with minimum resource parameter	04724583.2	9/28/2006	1738534	11/7/2012
GP035218	US	GRANTED	Transmitting/receiving apparatus and transmitting/receiving method	10/587166	7/26/2006	7668510	2/23/2010
GP035218	CN	GRANTED	Transmitting/receiving apparatus and transmitting/receiving method	200580003698.2	7/31/2006	200580003698	7/14/2010
GP035218	DE	GRANTED	Transmitting/receiving apparatus and transmitting/receiving method	057009227.0	7/31/2006	1705820	10/31/2012
GP035218	EP	FILED	Transmitting/receiving apparatus and transmitting/receiving method	12184227.2	9/13/2012		
GP035476	US	GRANTED	Transmission apparatus and transmission method	10/573688	3/27/2006	7672394	3/2/2010
GP035476	CN	GRANTED	Transmission apparatus and transmission method	200480028472.3	3/30/2006	200480028472	4/21/2010
GP035476	DE	GRANTED	Transmission apparatus and transmission method	047883584.5	3/23/2006	1667391	3/22/2013
GP036483	JP	GRANTED	Inter-station transmission method, radio base station monitoring method, and device using the method	2005-516174	4/17/2006	4637107	1/7/2011
GP036483	US	GRANTED	Inter-station transmission method, radio base station monitoring method, and device using the method	10/575533	4/10/2006	7773568	8/10/2010
GP036483	KR	GRANTED	Inter-station transmission method, radio base station monitoring method, and device using the method	2006-7007963	4/25/2006	10-1085741	11/15/2011
GP037013	JP	GRANTED	Reception quality notifying method, wireless communication terminal apparatus, and base station apparatus	2006-510942	7/19/2006	4584248	9/10/2010
GP037013	US	GRANTED	Reception quality notifying method, wireless communication terminal apparatus, and base station apparatus	10/591709	9/6/2006	7881389	2/1/2011

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP037013	KR	GRANTED	Reception quality notifying method, wireless communication terminal apparatus, and base station apparatus	2006-7018729	9/13/2006	10-1088959	11/23/2011
GP037044	JP	GRANTED	Radio transmitter apparatus, radio receiver apparatus, and wireless communication system	2006-512982	9/11/2006	4785738	7/22/2011
GP037044	US	GRANTED	Radio transmitter apparatus, radio receiver apparatus, and wireless communication system	11/579850	11/8/2006	7715497	5/11/2010
GP037044	US	GRANTED	Radio transmitter apparatus, radio receiver apparatus, and wireless communication system	12/551126	8/31/2009	8149949	4/3/2012
GP037112	JP	GRANTED	Wireless transmission device, wireless reception device, and symbol arranging method	2006-528406	11/8/2006	4384867	10/2/2009
GP037112	US	GRANTED	Wireless transmission device, wireless reception device, and symbol arranging method	11/630142	12/20/2006	7852903	12/14/2010
GP037112	US	GRANTED	Wireless transmission device, wireless reception device, and symbol arranging method	12/941894	11/8/2010	8223894	7/17/2012
GP037114	JP	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	2006-528411	11/10/2006	4578474	9/3/2010
GP037114	US	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	11/631583	1/4/2007	7778369	8/17/2010
GP037114	KR	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	2007-7000236	1/4/2007	10-1093994	12/7/2011
GP037114	US	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	12/831926	7/7/2010	8249181	8/21/2012
GP037152	JP	GRANTED	Data reception device	2005-518870	5/23/2006	4694969	3/4/2011
GP037152	US	GRANTED	Data reception device	10/580467	5/23/2006	7561583	7/14/2009
GP037152	CN	GRANTED	Data reception device	200580001828.8	6/29/2006	200580001828.8	6/2/2010
GP037209	JP	GRANTED	Radio transmission device and radio transmission method in multi-carrier communication	2006-528893	11/10/2006	4719154	4/8/2011
GP037209	US	GRANTED	Radio transmission device and radio transmission method in multi-carrier communication	11/632224	1/11/2007	7782965	8/24/2010

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP037209	KR	GRANTED	Radio transmission device and radio transmission method in multi-carrier communication	2007-7000899	1/12/2007	10-1099906	12/21/2011
GP037517	JP	GRANTED	Radio communication apparatus and radio communication method	2006-537823	3/9/2007	4647613	12/17/2010
GP037517	US	GRANTED	Radio communication apparatus and radio communication method	11/576133	3/27/2007	8073061	12/6/2011
GP038466	US	GRANTED	Signal space expansion for a 16 QAM scheme	11/913275	10/31/2007	7920636	4/5/2011
GP038466	CN	GRANTED	Signal space expansion for a 16 QAM scheme	200580050980.5	1/4/2008	200580050981	8/29/2012
GP038466	JP	GRANTED	Signal space expansion for a 16 QAM scheme	2008-509307	11/2/2007	4575983	8/27/2010
GP038466	FR	GRANTED	Signal space expansion for a 16 QAM scheme	05744588.4	10/26/2007	1878150	9/9/2009
GP038466	DE	GRANTED	Signal space expansion for a 16 QAM scheme	602005016608.4	10/26/2007	1878150	9/9/2009
GP038466	GB	GRANTED	Signal space expansion for a 16 QAM scheme	05744588.4	10/26/2007	1878150	9/9/2009
GP038466	US	GRANTED	Signal space expansion for a 16 QAM scheme	13/038924	3/28/2011	8160170	4/17/2012
GP038507	JP	GRANTED	Wireless communication apparatus and data multiplexing method	2006-548001	5/22/2007	4571132	8/20/2010
GP038507	US	GRANTED	Wireless communication apparatus and data multiplexing method	11/720732	6/1/2007	7817744	10/19/2010
GP038508	US	GRANTED	Quasi-pilot symbol substitution	11/817398	8/29/2007	8160175	4/17/2012
GP038508	CN	GRANTED	Quasi-pilot symbol substitution	200580049353.X	9/29/2007	200580049353.X	11/9/2011
GP038508	JP	GRANTED	Quasi-pilot symbol substitution	2008-503773	9/28/2007	4806446	8/19/2011
GP038508	DE	GRANTED	Quasi-pilot symbol substitution	05716422.9	7/23/2007	1864457	7/31/2013
GP038641	US	GRANTED	Inter-domain context transfer using context transfer managers	11/817490	11/15/2007	7890577	2/15/2011
GP038641	JP	GRANTED	Inter-domain context transfer using context transfer managers	2008-503596	9/28/2007	4719791	4/8/2011
GP038641	US	FILED	Inter-domain context transfer using context transfer managers	13/008818	1/18/2011		
GP038641	JP	GRANTED	Inter-domain context transfer using context transfer managers	2011-030870	2/16/2011	4977787	4/20/2012
GP038768	JP	GRANTED	Radio transmitting apparatus, radio receiving apparatus, radio transmitting method and radio receiving method	2006-550763	6/1/2007	4903058	1/13/2012
GP038768	US	GRANTED	Radio transmitting apparatus, radio receiving apparatus, radio transmitting method and radio receiving method	11/722848	6/26/2007	7764712	7/27/2010

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP038769	JP	GRANTED	OFDM communication apparatus and OFDM communication method	2006-550766	6/6/2007	4415020	11/27/2009
GP038769	US	GRANTED	OFDM communication apparatus and OFDM communication method	11/732827	6/26/2007	7856064	12/21/2010
GP040139	JP	GRANTED	Sound encoding device and sound encoding method	2006-543162	3/19/2007	5100324	10/5/2012
GP040139	US	GRANTED	Sound encoding device and sound encoding method	11/577638	4/20/2007	8326606	12/4/2012
GP040139	CN	GRANTED	Sound encoding device and sound encoding method	200580035271.X	4/16/2007	200580035271.X	5/18/2011
GP040139	FR	GRANTED	Sound encoding device and sound encoding method	05799362.8	4/16/2007	1793372	12/14/2011
GP040139	GB	GRANTED	Sound encoding device and sound encoding method	05799362.8	4/16/2007	1793372	12/14/2011
GP040139	DE	GRANTED	Sound encoding device and sound encoding method	05799362.8	4/16/2007	1793372	12/14/2011
GP042208	JP	GRANTED	Radio transmission device, radio reception device, radio transmission method, and radio reception method	2007-535564	2/22/2008	4903150	1/13/2012
GP042208	US	GRANTED	Radio transmission device, radio reception device, radio transmission method, and radio reception method	12/066781	3/13/2008	7859963	11/23/2010
GP044352	US	GRANTED	Fixed code book search device and fixed code book search method	12/096424	6/6/2008	8352254	1/8/2013
GP044352	JP	GRANTED	Fixed code book search device and fixed code book search method	2007-549196	4/22/2008	5159318	12/21/2012
GP046262	US	GRANTED	Radio communication device and CQI generation method	12/306485	12/23/2008	7864698	1/4/2011
GP046262	JP	GRANTED	Radio communication device and CQI generation method	2008-522369	10/15/2008	4907657	1/20/2012
GP047933	US	GRANTED	Radio communication base station device and control channel MCS control method	12/521296	6/25/2009	8416737	4/9/2013
GP047933	JP	GRANTED	Radio communication base station device and control channel MCS control method	2008-551111	4/2/2009	5303923	7/5/2013
GP050644	US	GRANTED	Encoding device, decoding device, and method thereof	12/740727	4/30/2010	8352249	1/8/2013
GP050644	JP	FILED	Encoding device, decoding device, and method thereof	2009-538955	3/12/2010		

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP051009	JP	GRANTED	Stereo sound decoding apparatus, stereo sound encoding apparatus and lost-frame compensating method	2009-547908	5/20/2010	5153791	12/14/2012
GP051009	US	GRANTED	Stereo sound decoding apparatus, stereo sound encoding apparatus and lost-frame compensating method	12/810332	6/24/2010	8359196	1/22/2013
GP051130	US	FILED	RADIO COMMUNICATION BASE STATION DEVICE, RADIO COMMUNICATION MOBILE STATION DEVICE, AND CONTROL CHANNEL ALLOCATION METHOD	12/811080	6/28/2010		
GP051150	JP	GRANTED	RADIO COMMUNICATION BASE STATION DEVICE, RADIO COMMUNICATION MOBILE STATION DEVICE, AND CONTROL CHANNEL ALLOCATION METHOD	2009-548816	4/21/2010	5340175	8/16/2013
GP048986	JP	FILED	INFORMATION EXCHANGE BETWEEN GATEWAYS FOR ROUTE OPTIMIZATION WITH NETWORK-BASED MOBILITY MANAGEMENT	2010-549048	9/3/2010		
GP048986	US	FILED	INFORMATION EXCHANGE BETWEEN GATEWAYS FOR ROUTE OPTIMIZATION WITH NETWORK-BASED MOBILITY MANAGEMENT	12/919993	11/1/2010		
GP052917	US	FILED	ROUTE OPTIMIZATION OF A DATA PATH BETWEEN COMMUNICATING NODES USING A ROUTE OPTIMIZATION AGENT	13/262907	10/3/2011		

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP052917	JP	FILED	ROUTE OPTIMIZATION OF A DATA PATH BETWEEN COMMUNICATING NODES USING A ROUTE OPTIMIZATION AGENT	2012-505095	10/6/2011		
GP052917	DE	GRANTED	ROUTE OPTIMIZATION OF A DATA PATH BETWEEN COMMUNICATING NODES USING A ROUTE OPTIMIZATION AGENT	090055294	4/20/2009	2244495	9/19/2012
GP052917	EP	FILED	ROUTE OPTIMIZATION OF A DATA PATH BETWEEN COMMUNICATING NODES USING A ROUTE OPTIMIZATION AGENT	10717340.8	11/10/2011		
GP054775	US	FILED	WIRELESS COMMUNICATION BASE STATION DEVICE AND TOTAL TRANSMISSION POWER REGULATING METHOD	13/128852	5/11/2011		
GP054775	JP	GRANTED	WIRELESS COMMUNICATION BASE STATION DEVICE AND TOTAL TRANSMISSION POWER REGULATING METHOD	2010-540388	1/28/2011	5366975	9/20/2013
GP054775	EP	FILED	WIRELESS COMMUNICATION BASE STATION DEVICE AND TOTAL TRANSMISSION POWER REGULATING METHOD	09828878.0	5/17/2011		
GP055375	CN	FILED	TERMINAL APPARATUS AND RETRANSMISSION CONTROL METHOD	201080017652.6	10/21/2011		
GP055375	US	FILED	TERMINAL APPARATUS AND RETRANSMISSION CONTROL METHOD	13/258095	9/21/2011		
GP055375	EP	FILED	TERMINAL APPARATUS AND RETRANSMISSION CONTROL METHOD	10766844.4	10/5/2011		

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP025257	JP	GRANTED	Radio base station apparatus and radio communication method	2000-197133	6/29/2000	3699883	7/15/2005
GP028732	JP	GRANTED	Radio communication apparatus and radio communication method	2001-204943	7/5/2001	3676981	5/13/2005
GP027526	JP	GRANTED	Diversity receiver	2002-130628	5/2/2002	3856219	9/22/2006
GP032204	JP	GRANTED	Method for encoding sound source of probabilistic code book	2002-330768	11/14/2002	3887598	12/1/2006
GP033434	JP	GRANTED	OFDM signal collision position detection apparatus and OFDM reception device	2003-023747	1/31/2003	4109556	4/11/2008
GP035476	JP	GRANTED	Transmission apparatus and transmission method	2003-341718	9/30/2003	4291659	4/10/2009
GP035218	JP	GRANTED	Transmitting/receiving apparatus and transmitting/receiving method	2004-024321	1/30/2004	3923050	3/2/2007
GP014733	US	GRANTED	Receiving apparatus for spectrum spread system	08/824833	3/26/1997	5822364	10/13/1998
GP014733	CN	GRANTED	Receiving apparatus for spectrum spread system	97109692.9	3/29/1997	97109692.9	7/16/2003
GP014733	KR	GRANTED	Receiving apparatus for spectrum spread system	1997-11224	3/28/1997	10-370590	1/17/2003
GP014733	GB	GRANTED	Receiving apparatus for spectrum spread system	97105113.1	3/26/1997	0798870	12/17/2003
GP014733	DE	GRANTED	Receiving apparatus for spectrum spread system	69726786.5	3/26/1997	0798870	12/17/2003
GP014733	FR	GRANTED	Receiving apparatus for spectrum spread system	97105113.1	3/26/1997	0798870	12/17/2003
GP014733	SE	GRANTED	Receiving apparatus for spectrum spread system	97105113.1	3/26/1997	0798870	12/17/2003
GP014733	FI	GRANTED	Receiving apparatus for spectrum spread system	97105113.1	3/26/1997	0798870	12/17/2003
GP014733	JP	GRANTED	Receiving apparatus for spectrum spread system	H08076428	3/29/1996	03318160	5/24/2002
GP015193	US	GRANTED	Arithmetic apparatus for use in Viterbi decoding	08/949866	10/14/1997	5970097	10/19/1999
GP015193	KR	GRANTED	Arithmetic apparatus for use in Viterbi decoding	1997-0052945	10/15/1997	10-0439211	6/25/2004
GP016066	US	GRANTED	Transmission/reception apparatus and transmission/reception method	09/264855	3/9/1999	6704345	3/9/2004
GP016066	KR	GRANTED	Transmission/reception apparatus and transmission/reception method	1999-0007877	3/8/1999	10-0327743	2/23/2002
GP016622	US	GRANTED	Processor and processing method	09/147663	6/29/1998	6330684	12/11/2001
GP016622	CN	GRANTED	Processor and processing method	98800905.6	3/1/1999	98800905.6	8/13/2003
GP016622	US	GRANTED	Processor and processing method	09/974807	10/12/2001	6477661	11/5/2002
GP016622	US	GRANTED	Processor and processing method	10/252394	9/24/2002	6735714	5/11/2004
GP016622	CN	GRANTED	Processor and processing method	03145161.6	6/20/2003	03145161.6	7/8/2009
GP016622	US	GRANTED	Processor and processing method	10/748242	12/31/2003	7139968	11/21/2006

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP016622	GB	GRANTED	Processor and processing method	98929741.1	2/21/1999	0923197	12/1/2004
GP016622	DE	GRANTED	Processor and processing method	69827915.8	2/21/1999	0923197	12/1/2004
GP016622	FR	GRANTED	Processor and processing method	98929741.1	2/21/1999	0923197	12/1/2004
GP016622	US	GRANTED	Processor and processing method	11/022811	12/28/2004	7335184	1/29/2008
GP016622	CN	GRANTED	Processor and processing method	200610100346.4	6/30/2006	200610100346.4	2/27/2013
GP016622	JP	GRANTED	Processor and processing method	H10168567	6/16/1998	03338374	8/9/2002
GP016622	JP	GRANTED	Processor and processing method	2002152929	5/27/2002	03383661	12/20/2002
GP016622	JP	GRANTED	Processor and processing method	2002327896	11/11/2002	03634333	1/7/2005
GP016622	JP	GRANTED	Processor and processing method	2003009709	1/17/2003	03996858	8/10/2007
GP020483	US	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	09/674283	10/30/2000	6697634	2/24/2004
GP020483	CA	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	2330444	10/27/2000	2330444	1/4/2005
GP020483	CN	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	00800243.6	10/30/2000	00800243.6	8/20/2003
GP020483	KR	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	2000-7012340	11/6/2000	10-378970	3/24/2003
GP020483	IN	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	00436/KOL/2000	10/30/2000	201961	2/23/2007
GP020483	GB	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	0006710.9	11/6/2000	1077531	11/29/2006
GP020483	DE	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	600132071.5	11/6/2000	1077531	11/29/2006
GP020483	FR	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	0006710.9	11/6/2000	1077531	11/29/2006
GP020483	FI	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	0006710.9	11/6/2000	1077531	11/29/2006

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP020483	SE	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	00906710.9	11/6/2000	1077531	11/29/2006
GP020483	JP	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	H11103044	3/6/1999	03968190	6/8/2007
GP020622	US	GRANTED	Operation processing apparatus and operation processing method	09/449831	11/28/1999	6523146	2/18/2003
GP020622	US	GRANTED	Operation processing apparatus and operation processing method	10/305946	11/29/2002	6697994	2/24/2004
GP020622	JP	GRANTED	Operation processing apparatus and operation processing method	H11294816	10/18/1999	03274668	2/1/2002
GP020871	CN	GRANTED	Communication device and communication method	00117644.7	5/25/2000	00117644.7	11/29/2005
GP020871	US	GRANTED	Communication device and communication method	09/573335	5/18/2000	6564040	5/13/2003
GP020871	EP	GRANTED	Communication device and communication method	360/MAS/2000	4/5/2000	293132	9/7/2006
GP020916	US	GRANTED	CDMA base station apparatus and code assignment method	09/391092	9/16/1999	6580703	6/17/2003
GP020916	KR	GRANTED	CDMA base station apparatus and code assignment method	1999-0040915	9/22/1999	10-0316839	11/26/2001
GP020916	JP	GRANTED	CDMA base station apparatus and code assignment method	H10269502	9/24/1998	03149399	1/19/2001
GP021113	US	GRANTED	Mobile station apparatus and base station apparatus	09/384190	8/27/1999	6614770	9/2/2003
GP021113	JP	GRANTED	Mobile station apparatus and base station apparatus	H10252993	9/7/1998	03403950	2/28/2003
GP021490	US	GRANTED	Radio selective paging system and display method therefor	09/543069	4/5/2000	6778069	8/17/2004
GP021490	CN	GRANTED	Radio selective-paging system and display method therefor	00104763.9	3/27/2000	00104763.9	3/31/2004
GP021542	US	GRANTED	Transmission/reception apparatus and modulation system estimation method	09/566984	5/9/2000	6879636	4/12/2005
GP021542	CN	GRANTED	Transmission/reception apparatus and modulation system estimation method	00108165.9	5/9/2000	00108165.9	3/31/2004
GP021542	KR	GRANTED	Transmission/reception apparatus and modulation system estimation method	2000-24944	5/10/2000	10-341169	6/5/2002
GP021542	GB	GRANTED	Transmission/reception apparatus and modulation system estimation method	0010998.6	5/11/2000	1052821	3/2/2005

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP021542	FR	GRANTED	Transmission/reception apparatus and modulation system estimation method	00109988.6	5/11/2000	1052821	3/2/2005
GP021542	DE	GRANTED	Transmission/reception apparatus and modulation system estimation method	600183254	5/11/2000	1052821	3/2/2005
GP021542	JP	GRANTED	Transmission/reception apparatus and modulation system estimation method	H11131346	5/12/1999	03779092	3/10/2006
GP021761	US	GRANTED	Mobile communication system and repeater used in the mobile communication system	09/701337	11/28/2000	6804491	10/12/2004
GP021761	CA	GRANTED	Mobile communication system and repeater used in the mobile communication system	2333574	11/28/2000	2333574	1/4/2005
GP021761	CN	GRANTED	Mobile communication system and repeater used in the mobile communication system	00800380.7	11/22/2000	00800380.7	7/14/2004
GP021761	JP	GRANTED	Mobile communication system and repeater used in the mobile communication system	H11094288	3/31/1999	03544890	4/16/2004
GP022013	US	GRANTED	Electronic appliance and operation control method thereof	09/535301	3/24/2000	6654602	11/25/2003
GP022013	CN	GRANTED	Electronic appliance and operation control method thereof	00104376.5	3/23/2000	00104376.5	4/21/2004
GP023058	US	GRANTED	Display and video producing apparatus, and displaying method and video producing method	09/869279	6/27/2001	6906756	6/14/2005
GP023058	JP	GRANTED	Display and video producing apparatus, and displaying method and video producing method	H11310111	10/29/1999	03501989	12/12/2003
GP022279	US	GRANTED	Communication terminal apparatus, base station, and method of radio communication	09/701309	3/26/2001	6938193	8/30/2005
GP022279	CN	GRANTED	Communication terminal apparatus, base station, and method of radio communication	00800338.6	11/15/2000	00800338.6	4/30/2008
GP022381	US	GRANTED	Apparatus and method for interference suppression transmission	09/913602	8/16/2001	7133642	11/7/2006
GP022601	US	GRANTED	Supervisory system and method	09/563838	5/4/2000	6580898	6/17/2003
GP022601	CN	GRANTED	Supervisory system and method	00108310.4	5/11/2000	00108310.4	8/4/2004
GP022601	JP	GRANTED	Supervisory system and method	H11135391	5/17/1999	03345642	4/16/2004

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP023011	US	GRANTED	Environmental noise level estimation apparatus, a communication apparatus, a data terminal apparatus, and a method of estimating an environmental noise level	09/599983	6/23/2000	7139393	11/21/2006
GP023011	CN	GRANTED	Environmental noise level estimation apparatus, a communication apparatus, a data terminal apparatus, and a method of estimating an environmental noise level	00120079.8	7/3/2000	00120079.8	10/4/2006
GP023011	SG	GRANTED	Environmental noise level estimation apparatus, a communication apparatus, a data terminal apparatus, and a method of estimating an environmental noise level	200003585-7	6/27/2000	87895	11/30/2004
GP023011	KR	GRANTED	Environmental noise level estimation apparatus, a communication apparatus, a data terminal apparatus, and a method of estimating an environmental noise level	2000-0036973	6/30/2000	10-378648	3/20/2003
GP023483	US	GRANTED	Analog multiplying circuit and variable gain amplifying circuit	09/867354	5/29/2001	6437631	8/20/2002
GP023483	CN	GRANTED	Analog multiplying circuit and variable gain amplifying circuit	01119541.X	5/29/2001	01119541.X	5/4/2005
GP023598	US	GRANTED	Folding portable telephone apparatus	09/788080	11/9/2000	6782281	8/24/2004
GP023598	US	GRANTED	Folding portable telephone apparatus	10/683308	10/10/2003	7013168	3/14/2006
GP025233	US	GRANTED	Printed circuit board holding structure	09/980339	1/28/2003	6809933	10/26/2004
GP025958	US	GRANTED	Method of modulating a data signal with modulation switching between direct and differential modulation and apparatus for modulation	10/214455	8/8/2002	7095797	8/22/2006
GP026060	US	GRANTED	Communication terminal apparatus, base station apparatus and communication method	10/283103	8/6/2002	7072682	7/4/2006
GP026060	GB	GRANTED	Communication terminal apparatus, base station apparatus and communication method	0127234S.8	8/21/2002	1347663	9/13/2006

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP026050	DE	GRANTED	Communication terminal apparatus, base station apparatus and communication method	60123123.6	8/21/2002	1347663	9/13/2006
GP026050	FR	GRANTED	Communication terminal apparatus, base station apparatus and communication method	01272345.8	8/21/2002	1347663	9/13/2006
GP026719	US	GRANTED	Backup gateway apparatus and home network system	10/062445	2/5/2002	6928576	8/9/2005
GP028062	US	GRANTED	Camera-equipped cellular telephone	10/399597	4/17/2003	7271843	9/18/2007
GP028062	CN	GRANTED	Camera-equipped cellular telephone	02802686.1	4/18/2003	02802686.1	11/26/2008
GP028062	GB	GRANTED	Camera-equipped cellular telephone	03730810.5	4/10/2003	141-4218	9/15/2010
GP028062	DE	GRANTED	Camera-equipped cellular telephone	03730810.5	4/10/2003	1414218	9/15/2010
GP028062	FR	GRANTED	Camera-equipped cellular telephone	03730810.5	4/10/2003	1414218	9/15/2010
GP028062	JP	GRANTED	Camera-equipped cellular telephone	2001232287	7/31/2001	03787760	4/7/2006
GP028806	US	GRANTED	Data transmission apparatus and data transmission method	10/380508	3/14/2003	7415080	8/19/2008
GP029210	JP	GRANTED	Radio transmission apparatus and radio communication method	2003318319	10/31/2002	04243330	1/16/2009
GP029210	US	GRANTED	Radio transmission apparatus and radio communication method	10/451658	6/23/2003	7130592	10/31/2006
GP029888	JP	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	2003052840	2/28/2002	04024452	8/24/2007
GP029888	IN	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	1362/KOLNP/2003	10/13/2003	198570	3/3/2006
GP029888	KR	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	2003-7014115	10/28/2003	10-0596272	6/26/2006
GP029888	CN	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	038003503	11/28/2003	038003503	12/13/2006
GP029888	US	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	10/476012	10/27/2003	7117317	10/3/2006
GP030306	JP	GRANTED	Reception apparatus and reception method	2002070866	3/14/2002	03980425	11/7/2003
GP030306	DE	GRANTED	Reception apparatus and reception method	60328168.0	11/12/2003	1484853	7/1/2009
GP030306	FR	GRANTED	Reception apparatus and reception method	03708603.0	11/12/2003	1484853	7/1/2009
GP030306	GB	GRANTED	Reception apparatus and reception method	03708603.0	11/12/2003	1484853	7/1/2009

Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
GP030306	CN	GRANTED	Reception apparatus and reception method	03800466.6	12/18/2003	03800466.6	6/6/2007
GP030306	US	GRANTED	Reception apparatus and reception method	10/477142	11/7/2003	7174493	2/6/2007
GP030326	US	GRANTED	ADSL modem apparatus and ADSL modem communication method	10/423933	4/28/2003	7305001	12/4/2007
GP032244	JP	GRANTED	Multi-carrier transmitting apparatus and multi-carrier transmitting method	2003007616	1/15/2003	03732830	10/21/2005
GP032244	CN	GRANTED	Multi-carrier transmitting apparatus and multi-carrier transmitting method	200380101232.6	4/11/2005	200380101232.6	12/9/2009
GP032244	US	GRANTED	Multi-carrier transmitting apparatus and multi-carrier transmitting method	10/530368	4/6/2005	7529315	5/5/2009
GP034754	JP	GRANTED	Method of generating spreading codes, CDMA transmission apparatus, and CDMA reception apparatus	2003272882	7/10/2003	03643366	3/4/2005
GP034754	US	GRANTED	Method of generating spreading codes, CDMA transmission apparatus, and CDMA reception apparatus	10/563248	1/4/2006	7916770	3/29/2011
GP035492	JP	GRANTED	Decoding device and decoding method	2003273378	7/11/2003	04227481	12/5/2008
GP035492	DE	GRANTED	Decoding device and decoding method	602004012417.6	1/3/2006	1655846	3/12/2008
GP035492	GB	GRANTED	Decoding device and decoding method	04747314.5	1/3/2006	1655846	3/12/2008
GP035492	IN	GRANTED	Decoding device and decoding method	9036/MUMNP/2006	1/9/2006	223981	8/29/2008
GP035492	KR	GRANTED	Decoding device and decoding method	2006-7000682	1/11/2006	10-0871619	1/13/2007
GP035492	CN	GRANTED	Decoding device and decoding method	200480019988.0	1/11/2006	200480019988.0	10/7/2009
GP035492	US	GRANTED	Decoding device and decoding method	10/563559	2/3/2006	7539256	5/26/2009
GP036423	JP	GRANTED	Content distributing system and content distributing method	2004118283	4/13/2004	04160924	7/25/2008
GP036423	KR	GRANTED	Content distributing system and content distributing method	2006-7021078	10/11/2006	10-0751189	8/14/2007
GP036423	US	GRANTED	Content distributing system and content distributing method	11/578356	11/3/2006	7764636	7/27/2010
GP037047	KR	GRANTED	Programmable logic circuit	2006-7016161	8/10/2006	10-0840030	6/13/2008
GP037047	US	GRANTED	Programmable logic circuit	10/589078	8/18/2007	7365566	4/29/2008