PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6115214

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:	16869763

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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ATTORNEY DOCKET NUMBER:	JRL-6103-1123C
NAME OF SUBMITTER:	JOHN R. LASTOVA
SIGNATURE:	/John R. Lastova/
DATE SIGNED:	05/20/2020

Total Attachments: 62
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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**").

W I T N E S S E T H:

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

[Signature Page to Patent Assignment Agreement – Panasonic to Optis Wireless Technology]

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

Panasonic Corporation

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
X		WiFi-001	GP017407	CN	GRANTED	Modulation method and radio communication system	99101868.0	2/1/1999	99101868	2/8/2006
X		WiFi-001	GP017407	KR	GRANTED	Modulation method and radio communication system	1999-2939	1/29/1999	10-331012	3/20/2002
X		WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	10/256202	9/27/2002	7233630	6/19/2007
X		WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	11/054960	2/11/2005	7289577	10/30/2007
X		WiFi-001	GP017407	US	GRANTED	Modulation method and radio communication system	12/764512	4/21/2010	RE43338	4/22/2008
X		WiFi-001	GP017407	US	FILED	Modulation method and radio communication system	13/916324	6/12/2013		
X		WiFi-001	GP017407	JP	GRANTED	Modulation method and radio communication system	H10044983	2/26/1998	3233092	9/21/2001
X		WiFi-001	GP017407	JP	GRANTED	Modulation method and radio communication system	2001139786	5/10/2001	3489570	11/7/2003
X		WiFi-002	GP020291	US	GRANTED	Pilot signal transmission technique and digital communication system using same	09/292398	4/15/1999	6608843	8/19/2003
X		WiFi-002	GP020291	CN	GRANTED	Pilot signal transmission technique and digital communication system using same	99105209.9	4/16/1999	99105210	5/7/2008
X		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
X		WiFi-002	GP020291	KR	GRANTED	Pilot signal	2002-0051032	8/28/2002	10-0452789	10/5/2004

Panasonic Specified Patent	Declared Standard Essential Patent	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				
X		WiFi-002	GP020291	CN	GRANTED	Pilot signal transmission technique and digital communication system using same	200810005857.7	2/4/2008	200810005858	3/28/2012
X		WiFi-002	GP020291	JP	GRANTED	Pilot signal transmission technique and digital communication system using same	H10105990	4/16/1998	3166705	3/9/2001
X		WiFi-015	GP020307	US	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	09/317961	5/25/1999	6618352	9/9/2003
X		WiFi-015	GP020307	US	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	10/614291	7/8/2003	6944122	9/13/2005
X		WiFi-015	GP020307	GB	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	99109244.6	5/25/1999	961448	1/7/2009
X		WiFi-015	GP020307	DE	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	69940235.2	5/25/1999	961448	1/7/2009
X		WiFi-015	GP020307	JP	GRANTED	Modulator, demodulator, and transmission system for use in OFDM transmission	H11142244	5/21/1999	4339959	7/10/2009
X		WiFi-016	GP021360	US	GRANTED	OFDM communication apparatus	09/520015	3/6/2000	6625111	9/23/2003
X		WiFi-016	GP021360	CN	GRANTED	OFDM communication apparatus	00104041.3	3/14/2000	104041	2/2/2005
X		WiFi-016	GP021360	KR	GRANTED	OFDM communication apparatus	2000-0013070	3/15/2000	10-383004	4/23/2003
X		WiFi-016	GP021360	GB	GRANTED	OFDM	00105467.5	3/15/2000	1037442	4/30/2008

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						communication apparatus				
X		WiFi-016	GP021360	FR	GRANTED	OFDM communication apparatus	00105467.5	3/15/2000	1037442	4/30/2008
X		WiFi-016	GP021360	DE	GRANTED	OFDM communication apparatus	60038710.0	3/15/2000	1037442	4/30/2008
X		WiFi-016	GP021360	SE	GRANTED	OFDM communication apparatus	00105467.5	3/15/2000	1037442	4/30/2008
X		H264-002	GP028493	US	GRANTED	Motion vector coding method and motion vector decoding method	12/691195	1/21/2010	8290048	10/16/2012
X		H264-002	GP028493	JP	GRANTED	Motion vector coding method and motion vector decoding method	2008124012	5/9/2008	4714236	4/1/2011
X		H264-002	GP028493	JP	GRANTED	Motion vector coding method and motion vector decoding method	2010042127	2/26/2010	5085671	9/14/2012
X	X	WiFi-004	GP028962	US	GRANTED	Communication method and radio communication apparatus	10/486896	2/17/2004	7974371	7/5/2011
X	X	WiFi-004	GP028962	CN	GRANTED	Communication method and radio communication apparatus	02811556.2	12/8/2003	2811556	7/30/2008
X	X	WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2003-7016182	12/10/2003	10-0681069	2/2/2007
X	X	WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2006-7018562	9/11/2006	10-0816173	3/17/2008
X	X	WiFi-004	GP028962	KR	GRANTED	Communication method and radio communication apparatus	2006-7018566	9/11/2006	10-0816174	3/17/2008
X	X	WiFi-004	GP028962	US	GRANTED	Communication method and radio communication apparatus	13/153731	6/6/2011	8428182	4/23/2013
X	X	WiFi-004	GP028962	US	FILED	Communication method and radio communication apparatus	13/839910	3/15/2013		
X		H264-003	GP029736	US	GRANTED	Variable length coding method and variable length decoding	11/976549	10/25/2007	8098736	1/17/2012

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						method				
X		H264-003	GP029736	US	GRANTED	Variable length coding method and variable length decoding method	12/710731	2/23/2010	7970059	6/28/2011
X	X	LTE-014	GP029990	US	GRANTED	Method and apparatus for intermittent communication	10/517521	1/9/2006	7916674	3/29/2011
X	X	LTE-014	GP029990	CN	GRANTED	Method and apparatus for intermittent communication	03818655.1	2/3/2005	3818655	4/15/2009
X	X	LTE-014	GP029990	CN	GRANTED	Method and apparatus for intermittent communication	200910008457.6	2/2/2009	200910008458	8/29/2012
X	X	LTE-014	GP029990	US	GRANTED	Method and apparatus for intermittent communication	13/030938	2/18/2011	8559347	10/15/2013
X	X	LTE-014	GP029990	EP	FILED	Method and apparatus for intermittent communication	03715471.3	12/17/2004		
X	X	LTE-014	GP029990	EP	FILED	Method and apparatus for intermittent communication	12167195.2	5/8/2012		
X		H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	11/976551	10/25/2007	8139878	3/20/2012
X		H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	11/976758	10/26/2007	7769238	8/3/2010
X		H264-001	GP030156	US	GRANTED	Picture coding method and picture decoding method	12/240379	9/29/2008	8290286	10/16/2012
X		H264-001	GP030156	JP	GRANTED	Picture coding method and picture decoding method	2008180637	7/10/2008	4191793	9/26/2008
X		H264-001	GP030156	JP	GRANTED	Picture coding method and picture decoding method	2011053602	3/10/2011	4741716	5/13/2011
X	X	LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	10/516937	12/14/2004	7570626	8/4/2009
X	X	LTE-013	GP030648	CN	GRANTED	Communication method,	03816913.4	1/17/2005	3816913	8/29/2012

Panasonic Specified Patent	Declared Standard Essential Patent	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				
X	X	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
X	X	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
X	X	LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	12/541400	8/14/2009	7907587	3/15/2011
X	X	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
X	X	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
X	X	LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	13/010150	1/20/2011	8175070	5/8/2012
X	X	LTE-013	GP030648	US	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	13/433577	3/29/2012	8400996	3/19/2013
X	X	LTE-013	GP030648	CN	FILED	Communication method, transmitting	201210247631.4	7/17/2012		

Panasonic Specified Patent	Declared Standard Essential Patent	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				
X	X	LTE-013	GP030648	US	FILED	Communication method, transmitting device using the same, and receiving device using the same	13/770199	2/19/2013		
X	X	LTE-013	GP030648	EP	FILED	Communication method, transmitting device using the same, and receiving device using the same	03764205.5	1/10/2005		
X	X	LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2003275711	7/16/2003	4157443	7/18/2008
X	X	LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2008129725	5/16/2008	4491025	4/9/2010
X	X	LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2009138641	6/9/2009	4351735	7/31/2009
X	X	LTE-013	GP030648	JP	GRANTED	Communication method, transmitting device using the same, and receiving device using the same	2009140261	6/11/2009	4415061	11/27/2009
X	X	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
X	X	LTE-015	GP032416	US	GRANTED	Radio communication apparatus and radio	10/540401	6/23/2005	8254335	8/28/2012

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						communication method				
X	X	LTE-015	GP032416	CN	GRANTED	Radio communication apparatus and radio communication method	200380107347.6	6/23/2005	200380107348	5/5/2010
X	X	LTE-015	GP032416	KR	GRANTED	Radio communication apparatus and radio communication method	2005-7009489	5/26/2005	10-0708291	4/10/2007
X	X	LTE-015	GP032416	IN	GRANTED	Radio communication apparatus and radio communication method	1360/CHENP/2005	6/22/2005	215404	2/26/2008
X	X	LTE-015	GP032416	US	GRANTED	Radio communication apparatus and radio communication method	12/341306	12/22/2008	8369285	2/5/2013
X	X	LTE-015	GP032416	CN	GRANTED	Radio communication apparatus and radio communication method	201010126252.0	2/26/2010	201010126252	5/23/2012
X	X	LTE-015	GP032416	US	FILED	Radio communication apparatus and radio communication method	13/733744	1/3/2013		
X	X	LTE-015	GP032416	GB	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2005	1578043	4/24/2013
X	X	LTE-015	GP032416	DE	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2005	1578043	4/24/2013
X	X	LTE-015	GP032416	FR	GRANTED	Radio communication apparatus and radio communication method	03774072.7	6/16/2005	1578043	4/24/2013
X	X	LTE-015	GP032416	EP	FILED	Radio communication apparatus and radio communication method	12183169.7	9/5/2012		
X	X	LTE-015	GP032416	EP	FILED	Radio communication apparatus and	12183168.9	9/5/2012		

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						radio communication method				
X	X	LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2002378076	12/26/2002	4256158	2/6/2009
X	X	LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2007318449	12/10/2007	4734314	4/28/2011
X	X	LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2008233711	9/11/2008	4734389	4/28/2011
X	X	LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2010237813	10/22/2010	4785982	7/22/2011
X	X	LTE-015	GP032416	JP	GRANTED	Radio communication apparatus and radio communication method	2011123416	6/1/2011	5306416	7/5/2013
X	X	LTE-018	GP034251	US	GRANTED	Method and apparatus for controlling a transport format of a retransmission	10/594496	9/28/2006	7783949	8/24/2010
X	X	LTE-018	GP034251	JP	GRANTED	Method and apparatus for controlling a transport format of a retransmission	2007505414	9/29/2006	4700049	3/11/2011
X	X	LTE-018	GP034251	JP	GRANTED	Method and apparatus for controlling a transport format of a retransmission	2010147761	6/29/2010	Not Issued yet	
X	X	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
X	X	LTE-018	GP034251	US	GRANTED	Method and apparatus for controlling a transport format of a retransmission	13/154163	6/6/2011		
X	X	LTE-018	GP034251	JP	GRANTED	Method and apparatus for	2011258783	11/28/2011	Not Issued yet	

Panasonic Specified Patent	Declared Standard Essential Patent	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				
X	X	LTE-018	GP034251	US	FILED	Method and apparatus for controlling a transport format of a retransmission	13/849082	3/22/2013		
X	X	LTE-018	GP034251	EP	FILED	Method and apparatus for controlling a transport format of a retransmission	10168155.9	7/1/2010		
X	X	LTE-020	GP034494	US	GRANTED	Method and apparatus for multicarrier communication	10/559472	1/31/2006	7817729	10/19/2010
X	X	LTE-020	GP034494	CN	GRANTED	Method and apparatus for multicarrier communication	200480016398.2	12/12/2005	200480016398	7/27/2011
X	X	LTE-020	GP034494	KR	GRANTED	Method and apparatus for multicarrier communication	2005-7023743	12/9/2005	10-0698881	3/16/2007
X	X	LTE-020	GP034494	US	GRANTED	Method and apparatus for multicarrier communication	12/901220	10/8/2010	8208569	6/26/2012
X	X	LTE-020	GP034494	CN	FILED	Method and apparatus for multicarrier communication	201110186215.3	7/5/2011		
X	X	LTE-020	GP034494	JP	GRANTED	Method and apparatus for multicarrier communication	2003168287	6/12/2003	3847733	9/1/2006
X	X	LTE-005	GP037015	JP	GRANTED	Random access method and radio communication terminal device	2006510667	7/10/2006	4734233	4/28/2011
X	X	LTE-005	GP037015	US	GRANTED	Random access method and radio communication terminal device	10/591712	9/6/2006	7873000	1/18/2011
X	X	LTE-005	GP037015	CN	GRANTED	Random access method and radio communication terminal device	200580006844.6	9/4/2006	200580006845	7/15/2009
X	X	LTE-005	GP037015	BR	FILED	Random access method and radio communication terminal device	PI0508580-2	9/8/2006		
X	X	LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2006-7018471	9/8/2006	10-1100979	12/23/2011

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X	X	LTE-005	GP037015	RU	GRANTED	Random access method and radio communication terminal device	2006132728	9/12/2006	2389158	5/10/2010
X	X	LTE-005	GP037015	RU	GRANTED	Random access method and radio communication terminal device	2010102421	1/25/2010	Not Issued yet	
X	X	LTE-005	GP037015	JP	GRANTED	Random access method and radio communication terminal device	2010212120	9/22/2010	4776738	7/8/2011
X	X	LTE-005	GP037015	US	GRANTED	Random access method and radio communication terminal device	12/965641	12/10/2010	8000295	8/16/2011
X	X	LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2011-7003838	2/18/2011	10-1103230	12/29/2011
X	X	LTE-005	GP037015	JP	FILED	Random access method and radio communication terminal device	2011109322	5/16/2011		
X	X	LTE-005	GP037015	KR	GRANTED	Random access method and radio communication terminal device	2011-7012079	5/27/2011	10-1100996	12/23/2011
X	X	LTE-005	GP037015	US	FILED	Random access method and radio communication terminal device	13/158014	6/10/2011		
X	X	LTE-005	GP037015	EP	FILED	Random access method and radio communication terminal device	05719646.1	8/31/2006		
X	X	LTE-005	GP037015	EP	FILED	Random access method and radio communication terminal device	13162780.4	4/8/2013		
X	X	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
X	X	LTE-006	GP037202	CN	GRANTED	Wireless transmission method, and communication terminal apparatus, for	200580023778.3	1/15/2007	200580023778	9/26/2012

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						accessing a random access channel				
X	X	LTE-006	GP037202	BR	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	PI0511830-1	1/15/2007		
X	X	LTE-006	GP037202	KR	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2007-7000638	1/10/2007	10-1095773	12/12/2011
X	X	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
X	X	LTE-006	GP037202	IN	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	1569/MUMNP/2006	12/19/2006		
X	X	LTE-006	GP037202	CA	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2572744	1/3/2007		
X	X	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
X	X	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

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						channel				
X	X	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
X	X	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
X	X	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
X	X	LTE-006	GP037202	IN	FILED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	1032/MUMNP/2013	6/3/2013		
X	X	LTE-006	GP037202	JP	GRANTED	Wireless transmission method, and communication terminal apparatus, for accessing a random access channel	2005200276	7/8/2005	4762619	6/17/2011
X	X	LTE-009	GP040011	US	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	12/067115	9/4/2008	8102880	1/24/2012
X	X	LTE-009	GP040011	CN	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	200680034713.3	3/20/2008	200680034713	7/4/2012
X	X	LTE-009	GP040011	KR	GRANTED	Method and	2008-7009347	4/18/2008	10-1286415	7/9/2013

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						apparatus for packet segmentation and concatenation signaling in a communication system				
X	X	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
X	X	LTE-009	GP040011	BR	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	PI0617569-4	3/19/2008		
X	X	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
X	X	LTE-009	GP040011	IN	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	1124/KOLNP/2008	3/17/2008		
X	X	LTE-009	GP040011	CA	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2622195	3/14/2008		
X	X	LTE-009	GP040011	AU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2006299273	3/11/2008	2006299273	5/19/2011
X	X	LTE-009	GP040011	ZA	GRANTED	Method and apparatus for packet	2008/03354	4/16/2008	2008/03354	2/25/2009

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						segmentation and concatenation signaling in a communication system				
X	X	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
X	X	LTE-009	GP040011	DE	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	602005010252.3	9/20/2005	1764980	10/8/2008
X	X	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
X	X	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
X	X	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
X	X	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
X	X	LTE-009	GP040011	CH	GRANTED	Method and apparatus for packet segmentation and	05020513.7	9/20/2005	1764980	10/8/2008

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						concatenation signaling in a communication system				
X	X	LTE-009	GP040011	ES	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	05020513.7	9/20/2005	1764980	10/8/2008
X	X	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
X	X	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
X	X	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
X	X	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	
X	X	LTE-009	GP040011	JP	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2011118983	5/27/2011	4991015	5/11/2012
X	X	LTE-009	GP040011	RU	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a	2011122892	6/6/2011	2470479	12/20/2012

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						communication system				
X	X	LTE-009	GP040011	US	GRANTED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	13/328890	12/16/2011	8494003	7/23/2013
X	X	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
X	X	LTE-009	GP040011	CN	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	201210126412.0	4/26/2012		
X	X	LTE-009	GP040011	JP	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	2013055122	3/18/2013		
X	X	LTE-009	GP040011	US	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	13/924399	6/21/2013		
X	X	LTE-009	GP040011	EP	FILED	Method and apparatus for packet segmentation and concatenation signaling in a communication system	06777073.5	3/14/2008		
X	X	LTE-017	GP040107	JP	GRANTED	Mobile station device	2007529160	12/26/2007	4703651	3/18/2011
X	X	LTE-017	GP040107	US	GRANTED	Mobile station device	11/997710	2/5/2009	8139662	3/20/2012
X	X	LTE-017	GP040107	CN	GRANTED	Mobile station device	200580051083.6	1/15/2008	200580051084	10/13/2010
X	X	LTE-017	GP040107	CN	GRANTED	Mobile station device	201010269078.5	9/1/2010	201010269079	1/2/2013
X	X	LTE-017	GP040107	US	GRANTED	Mobile station	13/160872	6/15/2011	8155227	4/10/2012

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						device				
X	X	LTE-017	GP040107	EP	FILED	Mobile station device	05768859.0	1/25/2008		
X	X	LTE-017	GP040107	JP	GRANTED	Mobile station device	2009257284	11/10/2009	4903251	1/13/2012
X	X	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
X	X	LTE-016	GP041536	CA	FILED	Transmission and reception of broadcast system information in a mobile communication system	2627748	4/29/2008		
X	X	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
X	X	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	
X	X	LTE-016	GP041536	IN	FILED	Transmission and reception of broadcast system information in a mobile communication system	1714/KOLNP/2008	4/29/2008		
X	X	LTE-016	GP041536	RU	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2008128445	7/11/2008	2418390	5/10/2011
X	X	LTE-016	GP041536	BR	FILED	Transmission and reception of broadcast system information in a mobile communication system	PI0620576-3	6/4/2008		
X	X	LTE-016	GP041536	VN	GRANTED	Transmission and reception of broadcast system	1-2008-01733	7/11/2008	8909	12/13/2010

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						information in a mobile communication system				
X	X	LTE-016	GP041536	JP	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2008544776	6/12/2008	4977713	4/20/2012
X	X	LTE-016	GP041536	VN	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	1-2010-02415	9/10/2019	10845	11/20/2012
X	X	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
X	X	LTE-016	GP041536	JP	GRANTED	Transmission and reception of broadcast system information in a mobile communication system	2011118166	5/26/2011	5060638	8/10/2012
X	X	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
X	X	LTE-016	GP041536	JP	FILED	Transmission and reception of broadcast system information in a mobile communication system	2012138830	6/20/2012		
X	X	LTE-016	GP041536	US	FILED	Transmission and reception of broadcast system information in a mobile communication system	13/786098	3/5/2013		
X	X	LTE-016	GP041536	CN	FILED	Transmission and reception of broadcast system information in a	201310375510.2	8/26/2013		

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						mobile communication system				
X	X	LTE-016	GP041536	EP	FILED	Transmission and reception of broadcast system information in a mobile communication system	11173827.4	10/20/2006		
X	X	LTE-016	GP041536	EP	FILED	Transmission and reception of broadcast system information in a mobile communication system	11173828.2	7/13/2011		
X	X	LTE-001	GP042833	JP	GRANTED	Radio communication apparatus and radio communication method	2008511925	8/6/2008	4575492	8/27/2010
X	X	LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	12/297617	10/17/2008	7940851	5/10/2011
X	X	LTE-001	GP042833	CN	GRANTED	Radio communication apparatus and radio communication method	200680054270.4	10/20/2008	200680054270	1/2/2013
X	X	LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	13/075042	3/29/2011	8130861	3/6/2012
X	X	LTE-001	GP042833	US	GRANTED	Radio communication apparatus and radio communication method	13/356306	1/23/2012	8526527	9/3/2013
X	X	LTE-001	GP042833	GB	GRANTED	Radio communication apparatus and radio communication method	06732219.8	10/20/2008	2007050	12/12/2012
X	X	LTE-001	GP042833	FR	GRANTED	Radio communication apparatus and radio communication method	06732219.8	10/20/2008	2007050	12/12/2012
X	X	LTE-001	GP042833	DE	GRANTED	Radio communication apparatus and radio	06732219.8	10/20/2008	2007050	12/12/2012

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						communication method				
X	X	LTE-001	GP042833	GB	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
X	X	LTE-001	GP042833	FR	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
X	X	LTE-001	GP042833	DE	GRANTED	Radio communication apparatus and radio communication method	11174726.7	7/20/2011	2381607	1/16/2013
X	X	LTE-001	GP042833	CN	FILED	Radio communication apparatus and radio communication method	201210488199.8	11/26/2012		
X	X	LTE-001	GP042833	JP	GRANTED	Radio communication apparatus and radio communication method	2009257283	11/10/2009	5025712	6/29/2012
X		WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	11/577791	4/23/2007	7826555	11/2/2010
X		WiFi-009	GP043345	CN	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	200680030825.1	2/22/2008	200680030825	3/14/2012
X		WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	12/840024	7/20/2010	8005165	8/23/2011
X		WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	13/171121	6/28/2011	8284866	10/9/2012
X		WiFi-009	GP043345	CN	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	201210014945.X	1/17/2012		
X		WiFi-009	GP043345	US	GRANTED	MIMO-OFDM transmission device and	13/604531	9/5/2012		

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						MIMO- OFDM transmission method				
X		WiFi-009	GP043345	US	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	14/067737	10/30/2013		
X		WiFi-009	GP043345	EP	FILED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	06783007.5	2/15/2008		
X		WiFi-009	GP043345	JP	GRANTED	MIMO-OFDM transmission device and MIMO- OFDM transmission method	2006228337	8/24/2006	5002215	5/25/2012
X	X	LTE-011	GP044766	US	GRANTED	Radio communication mobile station apparatus and radio communication method	12/293530	9/18/2008	8139473	3/20/2012
X	X	LTE-011	GP044766	CN	GRANTED	Radio communication mobile station apparatus and radio communication method	200780010212.6	9/22/2008	200780010213	3/27/2013
X	X	LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2008506313	6/25/2008	4887357	12/16/2011
X	X	LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2010265294	11/29/2010	4722223	4/15/2011
X	X	LTE-011	GP044766	JP	GRANTED	Radio communication mobile station apparatus and radio communication method	2011091089	4/15/2011	5323119	7/26/2013
X	X	LTE-011	GP044766	US	GRANTED	Radio communication mobile station apparatus and radio communication method	13/333805	12/21/2011	8411557	4/2/2013
X	X	LTE-011	GP044766	CN	FILED	Radio communication	201310022866.8	1/22/2013		

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						mobile station apparatus and radio communication method				
X	X	LTE-011	GP044766	US	FILED	Radio communication mobile station apparatus and radio communication method	13/781142	2/28/2013		
X	X	LTE-011	GP044766	EP	FILED	Radio communication mobile station apparatus and radio communication method	07739138.1	9/17/2008		
X	X	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
X	X	LTE-019	GP048526	CN	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	200880125167.3	7/20/2010	200880125167	6/5/2013
X	X	LTE-019	GP048526	BR	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	PI0819508-0	6/18/2010		
X	X	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
X	X	LTE-019	GP048526	KR	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	2010-7016300	7/20/2010		
X	X	LTE-019	GP048526	IN	FILED	Control channel signaling using a common signaling field for transport format and	2119/KOLNP/2010	6/9/2010		

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						redundancy version				
X	X	LTE-019	GP048526	RU	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	2010130186	7/19/2010	2473175	1/20/2013
X	X	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		
X	X	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
X	X	LTE-019	GP048526	MY	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	PI2010002668	6/9/2010		
X	X	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
X	X	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
X	X	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
X	X	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

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						version				
X	X	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
X	X	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
X	X	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
X	X	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
X	X	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
X	X	LTE-019	GP048526	SG	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	201106612-3	9/22/2011		
X	X	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
X	X	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

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X	X	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
X	X	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
X	X	LTE-019	GP048526	IT	GRANTED	Control channel signaling using a common signaling field for transport format and redundancy version	08865132.8	6/21/2010	2223453	8/1/2012
X	X	LTE-019	GP048536	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
X	X	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
X	X	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
X	X	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
X	X	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
X	X	LTE-019	GP048526	AU	FILED	Control channel	2013200180	1/14/2013		

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						signaling using a common signaling field for transport format and redundancy version				
X	X	LTE-019	GP048526	US	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	13/744244	1/17/2013		
X	X	LTE-019	GP048526	CN	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	201310132703.5	4/17/2013		
X	X	LTE-019	GP048526	JP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	2013129847	6/20/2013		
X	X	LTE-019	GP048526	EP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	11175779.5	7/28/2011		
X	X	LTE-019	GP048526	EP	FILED	Control channel signaling using a common signaling field for transport format and redundancy version	12172265.6	6/15/2012		
X	X	LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement method	12/532352	9/21/2009	7941153	5/10/2011
X	X	LTE-010	GP048894	CA	FILED	Radio communication base station device and control channel arrangement method	2680403	9/8/2009		
X	X	LTE-010	GP048894	CN	GRANTED	Radio communication base station device and	200880007766.5	9/9/2009	200880007767	1/2/2013

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						control channel arrangement method				
X	X	LTE-010	GP048894	KR	FILED	Radio communication base station device and control channel arrangement method	2009-7019814	9/22/2009		
X	X	LTE-010	GP048894	IN	FILED	Radio communication base station device and control channel arrangement method	1721/MUMNP/2009	9/10/2009		
X	X	LTE-010	GP048894	VN	GRANTED	Radio communication base station device and control channel arrangement method	1-2009-01919	9/11/2009	Not Issued yet	
X	X	LTE-010	GP048894	RU	GRANTED	Radio communication base station device and control channel arrangement method	2009135398	9/22/2009	2458483	8/10/2012
X	X	LTE-010	GP048894	BR	FILED	Radio communication base station device and control channel arrangement method	PI0809254-0	9/23/2009		
X	X	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
X	X	LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2009510767	6/25/2009	4621291	11/5/2010
X	X	LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2010241985	10/28/2010	4659922	1/7/2011
X	X	LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement	12/983770	1/3/2011	8064919	11/22/2011

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						method				
X	X	LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2010284623	12/21/2010	5079075	9/7/2012
X	X	LTE-010	GP048894	US	GRANTED	Radio communication base station device and control channel arrangement method	13/271942	10/12/2011	8200237	6/12/2012
X	X	LTE-010	GP048894	US	FILED	Radio communication base station device and control channel arrangement method	13/470106	5/11/2012		
X	X	LTE-010	GP048894	RU	GRANTED	Radio communication base station device and control channel arrangement method	2012117102	4/26/2012	Not Issued yet	
X	X	LTE-010	GP048894	JP	GRANTED	Radio communication base station device and control channel arrangement method	2012184051	8/23/2012	Not Issued yet	
X	X	LTE-010	GP048894	CN	FILED	Radio communication base station device and control channel arrangement method	201210427358.3	10/31/2012		
X	X	LTE-010	GP048894	GB	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	FR	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	DE	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	IT	FILED	Radio	08720555.5	9/11/2009		

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						communication base station device and control channel arrangement method				
X	X	LTE-010	GP048894	ES	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	NL	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	TR	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	IE	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	SE	FILED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009		
X	X	LTE-010	GP048894	GB	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	FR	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	DE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	IT	FILED	Radio communication base station	12159433.7	3/14/2012		

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						device and control channel arrangement method				
X	X	LTE-010	GP048894	ES	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	NL	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	TR	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	IE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	SE	FILED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012		
X	X	LTE-010	GP048894	EP	GRANTED	Radio communication base station device and control channel arrangement method	08720555.5	9/11/2009	Not Issued yet	
X	X	LTE-010	GP048894	EP	GRANTED	Radio communication base station device and control channel arrangement method	12159433.7	3/14/2012	Not Issued yet	
X	X	LTE-010	GP048894	EP	FILED	Radio communication base station device and control channel arrangement method				
X	X	LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading	12/593904	9/29/2009	8009721	8/30/2011

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						method				
X	X	LTE-003	GP049091	CN	GRANTED	Wireless communication apparatus and response signal spreading method	200880020332.9	12/15/2009	Not Issued yet	
X	X	LTE-003	GP049091	KR	FILED	Wireless communication apparatus and response signal spreading method	2009-7024018	11/18/2009		
X	X	LTE-003	GP049091	IN	FILED	Wireless communication apparatus and response signal spreading method	2132/MUMNP/2009	11/16/2009		
X	X	LTE-003	GP049091	ID	GRANTED	Wireless communication apparatus and response signal spreading method	W00200903449	12/8/2009	ID0030356	3/6/2012
X	X	LTE-003	GP049091	VN	GRANTED	Wireless communication apparatus and response signal spreading method	1-2009-02260	10/23/2009	Not Issued yet	
X	X	LTE-003	GP049091	BR	FILED	Wireless communication apparatus and response signal spreading method	PI0812534-1	12/14/2009		
X	X	LTE-003	GP049091	MX	GRANTED	Wireless communication apparatus and response signal spreading method	2009/011333	10/20/2009	286976	5/27/2011
X	X	LTE-003	GP049091	RU	GRANTED	Wireless communication apparatus and response signal spreading method	2009146294	12/14/2009	2480908	4/27/2013
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2009519168	7/27/2009	4505043	4/30/2010
X	X	LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	12/845361	7/28/2010	7848299	12/7/2010
X	X	LTE-003	GP049091	MX	GRANTED	Wireless communication apparatus and response signal	2011/005439	5/23/2011	300968	7/5/2012

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						spreading method				
X	X	LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/165538	6/21/2011	8179947	5/15/2012
X	X	LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/280190	10/24/2011	8199792	6/12/2012
X	X	LTE-003	GP049091	US	GRANTED	Wireless communication apparatus and response signal spreading method	13/301643	11/21/2011	8311079	11/13/2012
X	X	LTE-003	GP049091	DK	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	GB	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	FR	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	DE	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	IT	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	ES	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	TR	GRANTED	Wireless communication apparatus and response signal spreading method	08764121.3	12/10/2009	2159925	12/5/2012
X	X	LTE-003	GP049091	FI	GRANTED	Wireless communication apparatus and	08764121.3	12/10/2009	2159925	12/5/2012

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						response signal spreading method				
X	X	LTE-003	GP049091	US	FILED	Wireless communication apparatus and response signal spreading method	13/648976	10/10/2012		
X	X	LTE-003	GP049091	RU	FILED	Wireless communication apparatus and response signal spreading method	2012158156	12/28/2012		
X	X	LTE-003	GP049091	KR	FILED	Wireless communication apparatus and response signal spreading method	2013-7002029	1/25/2013		
X	X	LTE-003	GP049091	DK	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	GB	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	FR	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	DE	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	IT	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	ES	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	TR	GRANTED	Wireless communication apparatus and response signal spreading method	12153993.6	2/6/2012	2458759	8/7/2013
X	X	LTE-003	GP049091	FI	GRANTED	Wireless communication	12153993.6	2/6/2012	2458759	8/7/2013

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						apparatus and response signal spreading method				
X	X	LTE-003	GP049091	CN	FILED	Wireless communication apparatus and response signal spreading method	201310492216.X	10/18/2013		
X	X	LTE-003	GP049091	CN	FILED	Wireless communication apparatus and response signal spreading method	201310492202.8	10/18/2013		
X	X	LTE-003	GP049091	EP	FILED	Wireless communication apparatus and response signal spreading method	13165350.3	4/25/2013		
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2010044158	3/1/2010	4546580	7/9/2010
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2010044159	3/1/2010	4768862	6/24/2011
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011133224	6/15/2011	4948662	3/16/2012
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011139547	6/23/2011	4846060	10/21/2011
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2011175572	8/11/2011	4873029	11/25/2011
X	X	LTE-003	GP049091	JP	GRANTED	Wireless communication apparatus and response signal spreading method	2012039742	2/27/2012	5350505	8/30/2013
X	X	LTE-003	GP049091	JP	FILED	Wireless communication apparatus and response signal spreading method	2013170296	8/20/2013		
X	X	LTE-012	GP049514	US	GRANTED	Radio	12/600835	11/18/2009	7965760	6/21/2011

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						communication device and response signal diffusion method				
X	X	LTE-012	GP049514	KR	FILED	Radio communication device and response signal diffusion method	2010-7003056	2/10/2010		
X	X	LTE-012	GP049514	IN	FILED	Radio communication device and response signal diffusion method	2300/MUMNP/2009	12/10/2009		
X	X	LTE-012	GP049514	ID	GRANTED	Radio communication device and response signal diffusion method	W00201000433	2/9/2010	ID0032030	10/17/2012
X	X	LTE-012	GP049514	VN	GRANTED	Radio communication device and response signal diffusion method	1-2010-00061	1/11/2010	10842	11/12/2012
X	X	LTE-012	GP049514	RU	GRANTED	Radio communication device and response signal diffusion method	2010105059	2/12/2010	2481711	5/10/2013
X	X	LTE-012	GP049514	BR	FILED	Radio communication device and response signal diffusion method	PI0823202-4	1/29/2010		
X	X	LTE-012	GP049514	MX	GRANTED	Radio communication device and response signal diffusion method	2010/001406	2/4/2010	289719	8/26/2011
X	X	LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2009528033	9/10/2009	4512169	5/14/2010
X	X	LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	12/850988	8/5/2010	8121175	2/21/2012
X	X	LTE-012	GP049514	MX	GRANTED	Radio communication device and response signal diffusion method	2011/008285	8/5/2011	303845	9/28/2012

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X	X	LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	13/349435	1/12/2012	8275021	9/25/2012
X	X	LTE-012	GP049514	US	GRANTED	Radio communication device and response signal diffusion method	13/571207	8/9/2012	8467432	6/18/2013
X	X	LTE-012	GP049514	FR	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	DE	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	GB	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	IT	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	ES	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	DK	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	TR	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	FI	GRANTED	Radio communication device and response signal diffusion method	12153657.7	2/2/2012	2451103	2/20/2013
X	X	LTE-012	GP049514	FR	GRANTED	Radio communication device and response signal diffusion	08790447.0	2/8/2010	2187549	3/20/2013

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						method				
X	X	LTE-012	GP049514	DE	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	GB	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	IT	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	ES	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	DK	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	TR	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	FI	GRANTED	Radio communication device and response signal diffusion method	08790447.0	2/8/2010	2187549	3/20/2013
X	X	LTE-012	GP049514	RU	FILED	Radio communication device and response signal diffusion method	2012155872	12/21/2012		
X	X	LTE-012	GP049514	CN	FILED	Radio communication device and response signal diffusion method	2013100593197	2/26/2013		
X	X	LTE-012	GP049514	CN	FILED	Radio communication device and response signal diffusion method	201310059318.2	2/26/2013		
X	X	LTE-012	GP049514	KR	FILED	Radio communication device and response signal	2013-7006025	3/8/2013		

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						diffusion method				
X	X	LTE-012	GP049514	US	FILED	Radio communication device and response signal diffusion method	13/860398	4/10/2013		
X	X	LTE-012	GP049514	EP	GRANTED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013	Not issued yet	
X	X	LTE-012	GP049514	EP	FILED	Radio communication device and response signal diffusion method				
X	X	LTE-012	GP049514	EP	FILED	Radio communication device and response signal diffusion method				
X	X	LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2010044173	3/1/2010	5149319	12/7/2012
X	X	LTE-012	GP049514	JP	GRANTED	Radio communication device and response signal diffusion method	2012259980	11/28/2012	Not issued yet	
X	X	LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	12/740509	4/29/2010	8259781	9/4/2012
X	X	LTE-004	GP050452	CN	GRANTED	Radio communication device and constellation control method	200880111628.1	4/14/2010	200880111628	7/31/2013
X	X	LTE-004	GP050452	KR	FILED	Radio communication device and constellation control method	2010-7008252	4/15/2010		
X	X	LTE-004	GP050452	IN	FILED	Radio communication device and constellation control method	879/MUMNP/2010	4/28/2010		
X	X	LTE-004	GP050452	VN	GRANTED	Radio communication device and constellation control method	1-2010-01048	4/26/2010	11342	4/23/2013
X	X	LTE-004	GP050452	MY	FILED	Radio communication	PI2010001932	4/29/2010		

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						device and constellation control method				
X	X	LTE-004	GP050452	RU	GRANTED	Radio communication device and constellation control method	2010116896	4/28/2010	2473172	1/20/2013
X	X	LTE-004	GP050452	CA	FILED	Radio communication device and constellation control method	2703864	4/27/2010		
X	X	LTE-004	GP050452	BR	FILED	Radio communication device and constellation control method	PI0818271-0	4/29/2010		
X	X	LTE-004	GP050452	ZA	GRANTED	Radio communication device and constellation control method	2010/02938	4/28/2010	2010/02938	7/27/2011
X	X	LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2009538923	1/27/2010	4991875	5/11/2012
X	X	LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2011273382	12/14/2011	4991964	5/11/2012
X	X	LTE-004	GP050452	JP	GRANTED	Radio communication device and constellation control method	2011273385	12/14/2011	5377619	10/4/2013
X	X	LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	13/525103	6/15/2012	8363698	1/29/2013
X	X	LTE-004	GP050452	US	GRANTED	Radio communication device and constellation control method	13/525109	6/15/2012	8369382	2/5/2013
X	X	LTE-004	GP050452	RU	FILED	Radio communication device and constellation control method	2012139972	9/18/2012		
X	X	LTE-004	GP050452	US	FILED	Radio communication device and constellation control method	13/732915	1/2/2013		
X	X	LTE-004	GP050452	JP	FILED	Radio communication device and constellation control method	2013114053	5/30/2013		
X	X	LTE-004	GP050452	EP	FILED	Radio communication	08845779.1	4/28/2010		

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						device and constellation control method				
X	X	LTE-004	GP050452	EP	FILED	Radio communication device and constellation control method	12150242.1	1/5/2012		
X	X	LTE-004	GP050452	EP	FILED	Radio communication device and constellation control method	12150294.2	1/5/2012		
X	X	LTE-007	GP051123	JP	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2009551439	7/30/2010	4723034	4/15/2011
X	X	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
X	X	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		
X	X	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		
X	X	LTE-007	GP051123	BR	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	PI0907032-0	7/20/2010		
X	X	LTE-007	GP051123	RU	GRANTED	Communication terminal and base station communication method using MAC control information	2010136716	9/1/2010	2491773	8/27/2013

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						priorities and SRB priorities				
X	X	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		
X	X	LTE-007	GP051123	AU	GRANTED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2009208525	7/30/2010	2009208525	6/6/2013
X	X	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	163740	9/15/2011
X	X	LTE-007	GP051123	MY	FILED	Communication terminal and base station communication method using MAC control information priorities and SRB priorities	2010003464	7/21/2010		
X	X	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		
X	X	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
X	X	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		

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X	X	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
X	X	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		
X	X	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		
X	X	LTE-014	GP470793	JP	GRANTED	Method and apparatus for intermittent communication	2001305740	10/1/2001	4005783	8/31/2007
X	X	LTE-014	GP470793	JP	GRANTED	Method and apparatus for intermittent communication	2007134819	5/21/2007	4512115	5/14/2010
X	X	LTE-012	GP049514	FR	FILED	Radio communication device and response signal diffusion method	13151929	1/18/2013		
X	X	LTE-012	GP049514	DE	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	GB	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	IT	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	ES	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		

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X	X	LTE-012	GP049514	DK	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	TR	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	FI	FILED	Radio communication device and response signal diffusion method	13151929.0	1/18/2013		
X	X	LTE-012	GP049514	JP	FILED	Radio communication device and response signal diffusion method	2013-241911			
X	X	WiFi-017	GP033344	CN	GRANTED	Service in wlan inter-working, address management system, and method	200480006956.7	9/14/2005	200480006957	7/23/2008
X	X	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
X	X	WiFi-017	GP033344	IN	FILED	Service in wlan inter-working, address management system, and method	3234/DELNP/2005	7/21/2005		
X	X	WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	10/541447	4/7/2006	7610038	10/27/2009
X	X	WiFi-017	GP033344	CA	GRANTED	Service in wlan inter-working, address management system, and method	2512959	7/8/2005	2512959	3/26/2013
X	X	WiFi-017	GP033344	SG	GRANTED	Service in wlan inter-working, address management system, and method	200504814-5	7/6/2005	114084	7/31/2006
X	X	WiFi-017	GP033344	CN	GRANTED	Service in wlan inter-working, address management system, and	200810099826.2	5/29/2008	200810099826	1/2/2013

Panasonic Specified Patent	Declared Standard Essential Patent	Specified Patent Ref No.	Internal Ref. No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
						method				
X	X	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
X	X	WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	12/559468	9/14/2009	8081971	12/20/2011
X	X	WiFi-017	GP033344	US	GRANTED	Service in wlan inter-working, address management system, and method	13/292874	11/9/2011	8374580	2/12/2013
X	X	WiFi-017	GP033344	US	FILED	Service in wlan inter-working, address management system, and method	13/737366	1/9/2013		
X	X	WiFi-017	GP033344	EP	FILED	Service in wlan inter-working, address management system, and method	04702063.1	7/6/2005		
X	X	WiFi-017	GP033344	EP	FILED	Service in wlan inter-working, address management system, and method	12170887.9	6/8/2012		
X	X	WiFi-017	GP033344	JP	GRANTED	Service in wlan inter-working, address management system, and method	2003006175	1/14/2003	4270888	3/6/2009
X	X	WiFi-017	GP033344	JP	GRANTED	Service in wlan inter-working, address management system, and method	2008312519	12/8/2008	4802238	8/12/2011

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		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

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		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	2001-7006646	5/28/2001	10-0425611	3/22/2004
		GP025257	US	GRANTED	Radio base station apparatus and radio communication method	10/069396	2/26/2002	7133698	11/7/2006
		GP025257	CN	GRANTED	Radio base station apparatus and radio communication method	01801760.6	2/21/2002	1801761	7/14/2004
		GP025257	GB	GRANTED	Radio base station apparatus and radio communication method	01941237.8	2/27/2002	1206050	11/2/2011
		GP025257	FR	GRANTED	Radio base station apparatus and radio communication method	01941237.8	2/27/2002	1206050	11/2/2011
		GP025257	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	6922453	7/26/2005
		GP028732	US	GRANTED	Radio communication apparatus and radio communication method	10/450566	6/16/2003	7839759	11/23/2010
		GP028732	CN	GRANTED	Radio communication apparatus and radio communication method	02804205.0	7/28/2003	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	10/531417	6/2/2005	7577566	8/18/2009
		GP032204	CN	GRANTED	Method for encoding sound source of probabilistic code book	200380102998.6	5/11/2005	200380102999	3/3/2010
		GP032204	KR	GRANTED	Method for encoding sound source of probabilistic code book	2005-7006362	4/13/2005	10-0736504	6/29/2007
		GP032204	IN	GRANTED	Method for encoding sound source of probabilistic code book	903/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	200480002913	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

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		GP034437	US	GRANTED	Method and scheduler for performing a scheduling algorithm with minimum resource parameter	10/594566	10/1/2007	8028287	9/27/2011
		GP034437	CN	GRANTED	Method and scheduler for performing a scheduling algorithm with minimum resource parameter	200480042663.4	9/30/2006	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	200580003696.2	7/31/2006	200580003696	7/14/2010
		GP035218	DE	GRANTED	Transmitting/receiving apparatus and transmitting/receiving method	05709327.0	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	200480028472.2	3/30/2006	200480028472	4/21/2010
		GP035476	DE	GRANTED	Transmission apparatus and transmission method	04788154.5	3/23/2006	1667391	5/22/2013
		GP036483	JP	GRANTED	Inter-station transmission method, radio base station monitoring method, and device using the method	2005-516174	4/17/2006	4657107	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	7/10/2006	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

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		GP037013	KR	GRANTED	Reception quality notifying method, wireless communication terminal apparatus, and base station apparatus	2006-7018729	9/12/2006	10-1088959	11/25/2011
		GP037044	JP	GRANTED	Radio transmitter apparatus, radio receiver apparatus, and wireless communication system	2006-512982	9/11/2006	4785736	7/22/2011
		GP037044	US	GRANTED	Radio transmitter apparatus, radio receiver apparatus, and wireless communication system	11/579860	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	4384667	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	12/941804	11/8/2010	8223894	7/17/2012
		GP037114	JP	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	2006-528411	11/10/2006	4678474	9/3/2010
		GP037114	US	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	11/631503	1/4/2007	7778369	8/17/2010
		GP037114	KR	GRANTED	Multi-carrier transmission device and multi-carrier transmission method	2007-7000226	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	2005-516870	5/23/2006	4694969	3/4/2011
		GP037152	US	GRANTED	Data reception device	10/580467	5/23/2006	7561582	7/14/2009
		GP037152	CN	GRANTED	Data reception device	200580001828.8	6/29/2006	200580001829	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

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		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	200580050983	8/29/2012
		GP038466	JP	GRANTED	Signal space expansion for a 16 QAM scheme	2008-509307	11/2/2007	4575982	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	13/036924	2/28/2011	8160170	4/17/2012
		GP038507	JP	GRANTED	Wireless communication apparatus and data multiplexing method	2006-548001	5/22/2007	4571152	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	2008-503373	9/28/2007	4806446	8/19/2011
		GP038508	DE	GRANTED	Quasi-pilot symbol substitution	05716422.0	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	2008-503396	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	2011-030670	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

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		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	11/722827	6/26/2007	7856064	12/21/2010
		GP040139	JP	GRANTED	Sound encoding device and sound encoding method	2006-543162	3/19/2007	5100124	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	7839763	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	5139318	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	2008-522569	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	5305923	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		

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		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
		GP051150	US	FILED	RADIO COMMUNICATION BASE STATION DEVICE, RADIO COMMUNICATION MOBILE STATION DEVICE, AND CONTROL CHANNEL ALLOCATION METHOD	12/811050	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	10/4/2011		

Panasonic Specified Patent	Declared Standard Essential Patent	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	09005529.4	4/20/2009	2244495	9/19/2012
		GP052917	EP	FILED	ROUTE OPTIMIZATION OF A DATA PATH BETWEEN COMMUNICATING NODES USING A ROUTE OPTIMIZATION AGENT	10717540.8	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		

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		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	3676991	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	03316160	5/24/2002
		GP015493	US	GRANTED	Arithmetic apparatus for use in Viterbi decoding	08/949866	10/14/1997	5970097	10/19/1999
		GP015493	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	1999-0007477	3/8/1999	10-0327743	2/25/2002
		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

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		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	7325184	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	2002152959	5/27/2002	03383661	12/20/2002
		GP016622	JP	GRANTED	Processor and processing method	2002327296	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	09/674293	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	00456/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	00906710.9	11/6/2000	1077531	11/29/2006
		GP020483	DE	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	60032071.5	11/6/2000	1077531	11/29/2006
		GP020483	FR	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	00906710.9	11/6/2000	1077531	11/29/2006
		GP020483	FI	GRANTED	Apparatus and method for selecting a transmit power value from multiple calculated power levels	00906710.9	11/6/2000	1077531	11/29/2006

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		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	11/26/1999	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	11/29/2006
		GP020871	US	GRANTED	Communication device and communication method	09/573325	5/18/2000	6564040	5/13/2003
		GP020871	IN	GRANTED	Communication device and communication method	260/MAS/2000	4/5/2000	202152	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	H10269608	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	09/545069	4/7/2000	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	6879626	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	10-341189	6/5/2002
		GP021542	GB	GRANTED	Transmission/reception apparatus and modulation system estimation method	00109988.6	5/11/2000	1052821	3/2/2005

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		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	60018325.4	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	6654002	11/25/2003
		GP022013	CN	GRANTED	Electronic appliance and operation control method thereof	00104376.5	3/23/2000	00104376.5	4/21/2004
		GP022058	US	GRANTED	Display and video producing apparatus, and displaying method and video producing method	09/869279	6/27/2001	6906756	6/14/2005
		GP022058	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	6938195	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	09/913608	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	001083104	5/11/2000	001083104	8/4/2004
		GP022601	JP	GRANTED	Supervisory system and method	H11135391	5/17/1999	03345642	4/16/2004

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		GP023011	US	GRANTED	Environmental noise level estimation apparatus, a communication apparatus, a data terminal apparatus, and a method of estimating an environmental noise level	09/599993	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	09/706080	11/3/2000	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	09/980239	1/28/2002	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	10/203103	8/6/2002	7072682	7/4/2006
		GP026060	GB	GRANTED	Communication terminal apparatus, base station apparatus and communication method	01272345.8	8/21/2002	1347663	9/13/2006

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		GP026060	DE	GRANTED	Communication terminal apparatus, base station apparatus and communication method	60123123.6	8/21/2002	1347663	9/13/2006
		GP026060	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	7271845	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	02730810.5	4/10/2003	1414218	9/15/2010
		GP028062	DE	GRANTED	Camera-equipped cellular telephone	02730810.5	4/10/2003	1414218	9/15/2010
		GP028062	FR	GRANTED	Camera-equipped cellular telephone	02730810.5	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	10/380506	3/14/2003	7415000	8/19/2008
		GP029210	JP	GRANTED	Radio transmission apparatus and radio communication method	2002318319	10/31/2002	04245330	1/16/2009
		GP029210	US	GRANTED	Radio transmission apparatus and radio communication method	10/451658	6/25/2003	7130592	10/31/2006
		GP029888	JP	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	2002052840	2/28/2002	04002452	8/24/2007
		GP029888	IN	GRANTED	Apparatus and method for efficient storage of data streams that each comprise separately transmitted data blocks	1302/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	03800350.3	11/28/2003	03800350.3	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	03490425	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

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		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	2/4/2005
		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	0036/MUMNP/2006	1/9/2006	222981	8/29/2008
		GP035492	KR	GRANTED	Decoding device and decoding method	2006-7000682	1/11/2006	10-0671619	1/12/2007
		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	2004118285	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	6/18/2007	7365568	4/29/2008