

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2581856

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INTERDIGITAL PATENT HOLDINGS, INC.	10/11/2013
RECEIVING PARTY DATA	
Name:	INTERDIGITAL HOLDINGS, INC.
Street Address:	200 BELLEVUE PARKWAY, SUITE 300
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19809
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	12238910
Application Number:	12256964
Patent Number:	8325684
Application Number:	13665734
CORRESPONDENCE DATA	
Fax Number:	(215)568-6499
Phone:	215-568-6400
Email:	kmiddleton@vklaw.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
Correspondent Name:	VOLPE AND KOENIG, P.C.
Address Line 1:	30 SOUTH 17TH STREET
Address Line 4:	PHILADELPHIA, PENNSYLVANIA 19103
ATTORNEY DOCKET NUMBER:	I-3B.1
NAME OF SUBMITTER:	ROBERT D. LEONARD
Signature:	/Robert D. Leonard/

CH \$160.00 12238910

Date:

10/17/2013

Total Attachments: 12

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PATENT ASSIGNMENT

In order to effectuate the transfer of certain assets to DST Holdings, Inc., InterDigital Patent Holdings, Inc., InterDigital Holdings, Inc. (f/k/a InterDigital IP Holdings, Inc.), InterDigital, Inc., and DST Holdings, Inc., (collectively the "Parties") agree that, as of October 11, 2013 (the "Effective Date"):

- 1.1 InterDigital Patent Holdings, Inc. ("IPH"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809, a Delaware corporation, does hereby assign and transfer unto InterDigital Holdings, Inc. (f/k/a InterDigital IP Holdings, Inc.) ("IHI"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809, a Delaware corporation, and its successors, assigns and legal representatives, IPH's entire right, title and interest in the patents and patent applications identified on "Schedule A", together with the entire right, title and interest, including all rights under any and all international conventions and treaties, including the right to claim priority under the Paris Convention or other treaty, in and to said applications, and/or in and to Letters Patent which may be issued upon said applications, and any divisions, extensions, continuations or reissues thereof, throughout the world, including, in each such case, all rights to sue for infringement of any of the patents, whether arising prior to, on or subsequent to the Effective Date and including the right to seek injunctive relief and to collect past damages for any such infringement (collectively, the "Transferred Asset(s)"), subject to the limitations of paragraphs 1.2, 1.3, and 1.4.
- 1.2 IPH hereby expressly excludes from this Patent Assignment, any and all right, title, and interest to any and all patent applications, patents, utility model applications, utility model patents, recordations, and registrations in People's Republic of China and Hong Kong.
- 1.3 IHI agrees that the Transferred Assets shall remain subject to all rights that, prior to or as of the Effective Date have been or are required to be granted to any third party, including but not limited to, obligations and commitments made to standards setting or development organizations or industry consortia, and any and all releases, licenses, waivers of any rights of enforcement (including, but not limited to covenants not to sue, covenants not to assert, standstill agreements, disincentives to sue), rights to sell or otherwise divest some or all of the Transferred Assets, or any other similar rights, whether express or implied, under any of the Transferred Assets

(collectively, "Existing Third Party Rights") based on any obligation or agreement existing prior to or as of the Effective Date. IHI further agrees that when an Existing Third Party Right requires IPH or its affiliates to obtain agreement of, or assurances from, an assignee of a Transferred Asset that the Transferred Asset is subject to the Existing Third Party Rights, IHI hereby so agrees and assures and agrees to provide such written assurances or undertakings with respect to the Transferred Assets.

- 1.4 IPH retains the sole right to receive and retain any and all royalties, payments and other consideration under such Existing Third Party Rights set forth in paragraph 1.3.
- 1.5 IPH agrees that, when requested, IPH will reasonably cooperate to sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining the Transferred Assets and for vesting title thereto in IHI, its successors, and assigns and legal representatives or nominees.
- 2.1 InterDigital Holdings, Inc. (f/k/a InterDigital IP Holdings, Inc.) ("IHI"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 a Delaware corporation, does hereby assign and transfer unto InterDigital, Inc. ("InterDigital"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809 a Delaware corporation, and its successors, assigns and legal representatives, IHI's entire right, title and interest in the Transferred Assets, subject to the limitations of paragraph 2.2, 2.3, and 2.4.
- 2.2 IHI hereby expressly excludes from this Patent Assignment, any and all right, title, and interest to any and all patent applications, patents, utility model applications, utility model patents, recordations, and registrations in People's Republic of China and Hong Kong.
- 2.3 InterDigital agrees that the Transferred Assets shall remain subject to all Existing Third Party Rights based on any obligation or agreement existing prior to or as of the Effective Date. InterDigital further agrees that when an Existing Third Party Right requires IHI or its affiliates to obtain agreement of, or assurances from, an assignee of a Transferred Asset that the Transferred Asset is subject to the Existing Third Party Rights, InterDigital hereby so agrees and assures and agrees to provide such written assurances or undertakings with respect to the Transferred Assets.

- 2.4 InterDigital further agrees that InterDigital shall have no right under this Patent Assignment to receive or retain any royalties, payments and/or other consideration under such Existing Third Party Rights set forth in paragraph 2.3.
- 2.5 IHI agrees that, when requested, IHI will reasonably cooperate to sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining the Transferred Assets and for vesting title thereto in InterDigital, its successors, and assigns and legal representatives or nominees.
- 3.1 InterDigital, Inc. ("InterDigital"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809, a Delaware corporation does hereby assign and transfer unto DST Holdings, Inc. ("DST"), having its address at 200 Bellevue Parkway, Suite 300, Wilmington, DE 19809, a Delaware corporation, and its successors, assigns and legal representatives, InterDigital's entire right, title and interest in the Transferred Assets, subject to the limitations of paragraph 3.2, 3.3, and 3.4.
- 3.2 InterDigital hereby expressly excludes from this Patent Assignment, any and all right, title, and interest to any and all patent applications, patents, utility model applications, utility model patents, recordations, and registrations in People's Republic of China and Hong Kong.
- 3.3 DST agrees that the Transferred Assets shall remain subject to all Existing Third Party Rights based on any obligation or agreement existing prior to or as of the Effective Date. DST further agrees that when an Existing Third Party Right requires InterDigital or its affiliates to obtain agreement of, or assurances from, an assignee of a Transferred Asset that the Transferred Asset is subject to the Existing Third Party Rights, DST hereby so agrees and assures and agrees to provide such written assurances or undertakings with respect to the Transferred Assets.
- 3.4 DST further agrees that DST shall have no right under this Patent Assignment to receive or retain any royalties, payments and/or other consideration under such Existing Third Party Rights set forth in paragraph 3.3.
- 3.5 InterDigital agrees that, when requested, InterDigital will reasonably cooperate to sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining the

Transferred Assets and for vesting title thereto in DST, its successors, and assigns and legal representatives or nominees.

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IN WITNESS WHEREOF, the Parties have executed this Patent Assignment as of the dates below.

EXECUTED under seal on this 11th day of October, 2013 at Wilmington, Delaware.

ASSIGNOR:

ASSIGNEE:

InterDigital Patent Holdings, Inc.

InterDigital Holdings, Inc.

By: [Signature]
Lawrence F. Shay

By: [Signature]
Lawrence F. Shay

Title: President and CEO

Title: President and CEO

Date: October 11, 2013

Date: October 11, 2013

State of Delaware

ss.

County of New Castle

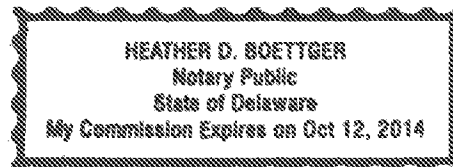
On this 11th day of October, 2013 before me personally appeared Lawrence F. Shay, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

[Signature]

Notary Public

My Commission Expires: Oct. 12, 2014



IN WITNESS WHEREOF, the Parties have executed this Patent Assignment as of the dates below.

EXECUTED under seal on this 11th day of October, 2013 at Wilmington, Delaware.

ASSIGNOR:

ASSIGNEE:

InterDigital Holdings, Inc.

InterDigital, Inc.

By: [Signature]
Lawrence F. Shay

By: [Signature]
Lawrence F. Shay

Title: President and CEO

Title: Executive V.P., IP, and Chief IP Counsel

Date: October 11, 2013

Date: October 11, 2013

State of Delaware

ss.

County of New Castle

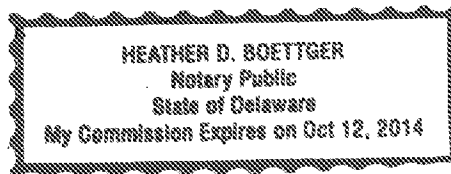
On this 11th day of October, 2013 before me personally appeared Lawrence F. Shay, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

[Signature]

Notary Public

My Commission Expires: Oct. 12, 2014



IN WITNESS WHEREOF, the Parties have executed this Patent Assignment as of the dates below.

EXECUTED under seal on this 11th day of October, 2013 at Wilmington, Delaware.

ASSIGNOR:

ASSIGNEE:

InterDigital, Inc.

DST Holdings, Inc.

By: [Signature]
Lawrence F. Shay

By: [Signature]
Lawrence F. Shay

Title: Executive V.P., IP, and Chief IP Counsel

Title: President and Chief Executive Officer

Date: October 11, 2013

Date: October 11, 2013

State of Delaware

ss.

County of New Castle

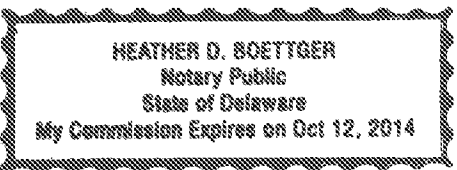
On this 11th day of October, 2013 before me personally appeared Lawrence F. Shay, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

[Signature]

Notary Public

My Commission Expires: Oct. 12, 2014



Schedule A

Application Title	Country	Filed Date	Application No.	Publication Date	Publication Number	Grant Date	Patent #
METHOD AND APPARATUS TO CEASE AN E-RACH MESSAGE PART IN AN ENHANCED RACH	United States of America	21 Mar 2008	61/038,578				
METHOD AND APPARATUS TO CEASE AN E-RACH MESSAGE PART IN AN ENHANCED RACH	United States of America	20 Jun 2008	61/074,288				
METHOD AND APPARATUS TO CEASE AN E-RACH MESSAGE PART IN AN ENHANCED RACH	United States of America	24 Jul 2008	61/083,409				
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	United States of America	26 Sep 2008	12/238,910	02 Apr 2009	20090086671A1		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Venezuela	28 Sep 2008	2008-001892	28 Mar 2011	2008-001892		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Patent Cooperation Treaty	28 Sep 2008	PCT/US08/77904	09 Apr 2009	WO2009/045809		
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Argentina	27 Oct 2008	P080104888	23 Dec 2009	AR088058A1	30 Apr 2013	AR088058B1
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Taiwan	24 Oct 2008	97141088	01 May 2009	200920060		
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Taiwan	27 Oct 2008	97218186	21 Apr 2009		21 Apr 2009	M355522
METHOD TO MANAGE AND SETUP MAC-e/es RESOURCES IN CELL-FACH STATE	United States of America	25 Oct 2007	60/982,528				
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	United States of America	23 Oct 2008	12/258,984	28 May 2009	US 2009-0135771 A1		
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Venezuela	24 Oct 2008	2008-002204	21 Oct 2011	2008-002204		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Argentina	29 Sep 2008	P080104245	11 Nov 2009	AR088296A1		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Taiwan	26 Sep 2008	097137308	01 Apr 2009	200915801		
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Taiwan	26 Sep 2008	097217487	11 Feb 2009		11 Feb 2009	M350926
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	United States of America	28 Sep 2007	60/975,985				

Schedule A

Application Title	Country	Filed Date	Application No.	Publication Date	Publication Number	Grant Date	Patent #
METHOD AND APPARATUS TO CEASE AN E-RACH MESSAGE PART IN AN ENHANCED RACH	United States of America	04 Jan 2008	61/018,999				
METHOD AND APPARATUS TO CEASE AN E-RACH MESSAGE PART IN AN ENHANCED RACH	United States of America	01 Feb 2008	61/025,441				
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Patent Cooperation Treaty	23 Oct 2008	PCT/US08/80896	30 Apr 2009	WO2009/055538		
METHODS AND APPARATUS FOR CELL RESELECTION	Argentina	05 Jan 2009	P090100007	17 Mar 2010	AR 070092A1		
METHODS AND APPARATUS FOR CELL RESELECTION	Taiwan	31 Dec 2008	097151860	16 Jul 2009	200932015		
METHODS AND APPARATUS FOR CELL RESELECTION	United States of America	02 Jan 2008	61/018,887				
METHOD AND APPARATUS FOR CELL RESELECTION	United States of America	30 Dec 2008	12/346,631	02 Jul 2009	US-2009-0166726-A1	04 Dec 2012	6,325,884
METHODS AND APPARATUS FOR CELL RESELECTION	Patent Cooperation Treaty	30 Dec 2008	PCT/US08/88565	16 Jul 2009	WO2009/088877		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Australia	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Brazil	26 Sep 2008	PI0818549-1				
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Canada	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	India	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Indonesia	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Israel	26 Sep 2008	204742				
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Japan	26 Sep 2008	2010-527194	24 Dec 2010	2010-541422	05 Oct 2012	5100841
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Korea, Republic of (KR)	26 Sep 2008	10-2010-7009403			18 Oct 2012	1193478

Schedule A

Application Title	Country	Filed Date	Application No.	Publication Date	Publication Number	Grant Date	Patent #
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Malaysia	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Mexico	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Russian Federation	26 Sep 2008	2010116763			20 Jul 2012	2456778
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Singapore	26 Sep 2008					
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	European Patent	26 Sep 2008	08834882.6			24 Oct 2012	2201796
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	Korea, Republic of (KR)	26 Sep 2008	10-2010-7012122				
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Brazil	23 Oct 2008	PI0816595-5				
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Israel	23 Oct 2008	205269				
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Japan	23 Oct 2008	2010-531230	20 Jan 2011	2011-502402		
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Korea, Republic of (KR)	23 Oct 2008	10-2010-7011268	28 Jul 2010	10-2010-0085126	08 Jun 2012	1156811
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	Russian Federation	23 Oct 2008	2010120914			10 Apr 2012	2447623
MANAGEMENT AND SETUP OF ENHANCED MAC-E/ES RESOURCES IN CELL-FACH STATE	European Patent	23 Oct 2008	08842707.5				
METHOD TO MANAGE AND SETUP MAC-e/es RESOURCES IN CELL-FACH STATE	Korea, Republic of (KR)	23 Oct 2008	10-2010-7013643	12 Aug 2010	10-2010-0089883		
METHODS AND APPARATUS FOR CELL RESELECTION	Brazil	30 Dec 2008	PI0819956-6				
METHODS AND APPARATUS FOR CELL RESELECTION	Japan	30 Dec 2008	2010-541528	17 Mar 2011	2011-509050	09 Nov 2012	5127933
METHODS AND APPARATUS FOR CELL RESELECTION	Korea, Republic of (KR)	30 Dec 2008	10-2010-7016809	18 Oct 2010	10-2010-0112147	29 Oct 2012	1187380
METHODS AND APPARATUS FOR CELL RESELECTION	Russian Federation	30 Dec 2008	2010132239			27 Jan 2013	2474079

Schedule A

Application Title	Country	Filed Date	Application No.	Publication Date	Publication Number	Grant Date	Patent #
METHODS AND APPARATUS FOR CELL RESELECTION	European Patent	30 Dec 2008	08870286.5				
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	European Patent	26 Sep 2008	10171985.4	19 Jan 2011	EP2276315A1		
METHOD TO MANAGE AND SETUP MAC-efes RESOURCES IN CELL-FACH STATE	Taiwan	24 Oct 2008	100107814	16 May 2012	201220799		
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Finland	26 Sep 2008	08834882.6			24 Oct 2012	2201796
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	France	26 Sep 2008	08834882.6			24 Oct 2012	2201796
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Germany (Federal Republic of)	26 Sep 2008	08834882.6			24 Oct 2012	2201796
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Ireland (Republic of)	26 Sep 2008	08834882.6			24 Oct 2012	2201796
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Netherlands	26 Sep 2008	08834882.6			24 Oct 2012	2201798
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	United Kingdom	26 Sep 2008	08834882.6			24 Oct 2012	2201796
METHODS AND APPARATUS FOR CELL RESELECTION	Korea, Republic of (KR)	30 Dec 2008	10-2011-7017133	16 Aug 2011	10-2011-0091910		
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	Taiwan	26 Sep 2008	101107756	01 Dec 2012	201249150		
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	Russian Federation	26 Sep 2008	2012113213				
METHOD AND APPARATUS FOR CELL RESELECTION	United States of America	31 Oct 2012	13/665,734	07 Mar 2013	US-2013-005824-A1		
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	Japan	26 Sep 2008	2012-211121	20 Dec 2012	2012-253827		
METHODS AND APPARATUS FOR CELL RESELECTION	Japan	30 Dec 2008	2012-236946	31 Jan 2013	2013-021795		
APPARATUS AND METHOD FOR TERMINATING TRANSMISSION OF A RANDOM ACCESS CHANNEL MESSAGE PART	European Patent	26 Sep 2008	EP13162013.0	10 Jul 2013	2613604		

Schedule A

Application Title	Country	Filed Date	Application No.	Publication Date	Publication Number	Grant Date	Patent #
METHODS AND APPARATUSES FOR MANAGEMENT AND SETUP OF ENHANCED MACE/ES RESOURCES IN CELL-FACH STATE	Japan	23 Oct 2008	2013-191794				
METHOD AND APPARATUS FOR TERMINATING TRANSMISSION OF A MESSAGE IN AN ENHANCED RANDOM ACCESS CHANNEL	Korea, Republic of (KR)	26 Sep 2008	10-2013-7025469				