PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4157547

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BLACKBERRY LIMITED	05/27/2016

RECEIVING PARTY DATA

Name:	HILCO PATENT ACQUISITION 55 LLC
Street Address:	5 REVERE DRIVE, SUITE 206
City:	NORTHBROOK
State/Country:	ILLINOIS
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PROPERTY NUMBERS Total: 48

Property Type	Number
Patent Number:	8103318
Patent Number:	8447369
Patent Number:	8072963
PCT Number:	CA0800261
Patent Number:	8391272
Patent Number:	8385320
Application Number:	61015401
PCT Number:	US0887414
Application Number:	12341948
Application Number:	61016920
PCT Number:	US0888054
Patent Number:	8594035
Patent Number:	8902846
Patent Number:	9155045
Patent Number:	9247498
Application Number:	14926240
Patent Number:	8634361
Application Number:	61025485
Patent Number:	8918122
Application Number:	61027279

Property Type	Number
Patent Number:	8359039
Application Number:	61258525
PCT Number:	US1038684
Application Number:	14463388
Application Number:	14833927
Patent Number:	9119195
Application Number:	61330157
Application Number:	12816104
Application Number:	61187070
PCT Number:	US1038674
Application Number:	12811315
Application Number:	61220886
Application Number:	12811301
Application Number:	61187095
Patent Number:	8369253
Application Number:	61234216
PCT Number:	US1045452
Patent Number:	8208926
Patent Number:	8594676
Patent Number:	8594677
Patent Number:	7953413
Patent Number:	7623487
Patent Number:	6603962
Patent Number:	6330432
Patent Number:	8526356
Patent Number:	9203756
Patent Number:	7864777
Patent Number:	6799046

CORRESPONDENCE DATA

Fax Number: (602)364-7070

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ATTORNEY DOCKET NUMBER:	0399153
NAME OF SUBMITTER:	JULIE A. ESLICK
SIGNATURE:	/Julie A. Eslick/
DATE SIGNED:	11/26/2016

Total Attachments: 16
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Patent Assignment

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to the Confidential Patent Purchase Agreement (the "**Patent Purchase Agreement**") Effective as of May 27, 2016 ("**Effective Date**"), between BlackBerry Limited, a company organized under the laws of the Province of Ontario, with its principal place of business at 2200 University Avenue East, Waterloo, ON N2K 0A7 ("**ASSIGNOR**") and Hilco Patent Acquisition 55, LLC, a Delaware limited liability company with an office at 5 Revere Drive, Suite 206, Northbrook, Illinois 60062 ("**ASSIGNEE**"), ASSIGNOR hereby grants and assigns to ASSIGNEE all of ASSIGNOR's right, title and interest in and to the patents and patent applications identified in Exhibit A (attached hereto), including without limitation any and all letters patent issuing from any patent or application listed on Exhibit A and any continuation, continuation-in-part, divisional, reissue, conversion, reexamination (or foreign equivalent of any of the foregoing), or foreign counterpart of any patent or application listed on Exhibit A, and any application or patent that directly claims priority to any patent or application listed on Exhibit A, or from which any patent or application listed on Exhibit A claims priority directly, anywhere in the world (hereinafter, collectively, "**ASSIGNED PATENTS**"), to have and to hold the same, unto ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors and assigns, including all past, current and future damages for infringement of any of the Assigned Patents and the sole right to sue therefore under such ASSIGNED PATENTS, for the full term or terms of all such ASSIGNED PATENTS.

ASSIGNOR has full right to convey its entire interest to the ASSIGNEE, both legal and equitable, in and to the inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever (subject to the exceptions set forth in the Patent Purchase Agreement). ASSIGNOR hereby authorizes and requests the issuing authority to issue any and all patents issuing from any of the forgoing to the ASSIGNEE or its successors and assigns. ASSIGNOR agrees that the attorney or agent of record in the ASSIGNED PATENTS shall cooperate on behalf of the ASSIGNEE for the sole purpose of changing representation and perfecting this Patent Assignment.

ASSIGNOR agrees, without any further payment or compensation by the ASSIGNEE or its successors and assigns, that it will upon request execute and deliver to ASSIGNEE any additional documents and materials that are reasonably necessary for ASSIGNEE to perfect its title, or otherwise enforce its rights, in the ASSIGNED PATENTS.

IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment to be duly signed on its behalf.

BLACKBERRY LIMITED

Signature: _____ Date: May 27, 2016

Name: Steve Rai

Title: Authorized Signing Officer

EXHIBIT A

Assigned Patents

BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
32012-CA-PCT	2677834			Canada	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-CN-PCD	201210563005.6	103036659		China	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-CN-PCT	200880011556.3	101653032	200880011556.3	China	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-DE-EPA	07102421.0	1959615	602007004434.0	Germany	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-EP-EPA	07102421.0	1959615	1959615	European Procedure (Patents)	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE-ACTIVE
32012-EP-EPD	09177680.7	2161887		European Procedure (Patents)	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-FR-EPA	07102421.0	1959615	1959615	France	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-GB-EPA	07102421.0	1959615	1959615	United Kingdom	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-HK-FPR	08111218.5	1116958	1116958	Hong Kong	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE-ACTIVE
32012-IN-PCT	4935/CHENP/2009	4935/CHENP/2009		India	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-JP-PCD	2012-89466	2012-135058	5417479	Japan	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-JP-PCT	2009-549345	2010-518765	5243453	Japan	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-US-CNT	13/272439	2012/0026927	8103318	United States Of America	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-US-CNT[2]	13/345225	2012/0106420	8447369	United States Of America	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-US-PAT	11/674689	2008/0192703	8072963	United States Of America	METHOD AND SYSTEM FOR RECOVERING FROM DRX TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32012-WO-PCT	PCT/CA2008/000261	2008/098352		International	METHOD AND SYSTEM FOR RECOVERING FROM DRX

BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
				Procedure	TIMING DE-SYNCHRONIZATION IN LTE_ACTIVE
32962-BR-PCT	PI0821764-5	PI0821764-5		Brazil	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-CA-PCT	2710305		2710305	Canada	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-CN-PCD	201410474949.5	104284412	201410474949.5	China	EQUIPMENTS AND METHODs FOR UPLINK TIMING SYNCHRONIZATION
32962-CN-PCT	200880127127.2	101953093	200880127127.2	China	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-DE-EPT	08865743.2	2235851	602008018631.8	Germany	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-DE-ETD[2]	12182895.8	2549664	602008033526.7	Germany	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-DE-ETD[3]				Germany	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-EP-EPT	08865743.2	2235851	2235851	European Procedure (Patents)	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-EP-ETD	11194297.5	2434815		European Procedure (Patents)	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-EP-ETD[2]	12182895.8	2549664	2549664	European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-FI-EPT	08865743.2	2235851	2235851	Finland	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-FI-ETD[2]	12182895.8	2549664	2549664	Finland	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-FI-ETD[3]				Finland	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-FR-EPT	08865743.2	2235851	2235851	France	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-FR-ETD[2]	12182895.8	2549664	2549664	France	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-FR-ETD[3]				France	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-GB-EPT	08865743.2	2235851	2235851	United Kingdom	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-GB-ETD[2]	12182895.8	2549664	2549664	United Kingdom	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
32962-GB-ETD[3]				United Kingdom	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-HK-FPR	11103375.6	1149383	1149383	Hong Kong	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-HK-FPR[2]	13107577.1	1180471	1180471	Hong Kong	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-IT-EPT	08865743.2	2235851	2235851	Italy	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-JP-PCD	2012-129354	2012-186854	5448113	Japan	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-JP-PCT	2010-539798	2011-508531	5015327	Japan	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-MX-PCT	MX/A/2010/006989	MX/A/2010/006989	307849	Mexico	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-NL-EPT	08865743.2	2235851	2235851	Netherlands	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-NL-ETD[2]	12182895.8	2549664	2549664	Netherlands	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-NL-ETD[3]				Netherlands	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-SE-EPT	08865743.2	2235851	2235851	Sweden	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-SE-ETD[2]	12182895.8	2549664	2549664	Sweden	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-SE-ETD[3]				Sweden	EQUIPMENTS AND METHODS FOR UPLINK TIMING SYNCHRONIZATION
32962-US-DIV	13/300118	2012/0063448	8391272	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-US-PAT	12/338299	2009/0161654	8385320	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-US-PRV	61/015401			United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
32962-WO-PCT	PCT/US08/087414	2009/082668		International Procedure	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION
33136-AT-EPT	08866962.7	2232935	528949	Austria	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-BE-EPT	08866962.7	2232935	2232935	Belgium	SYSTEM AND METHOD FOR UPLINK RESOURCE

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
					REUSE
33136-DE-EPT	08866962.7	2232935	602008010507.5	Germany	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-DK-EPT	08866962.7	2232935	2232935	Denmark	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-EP-EPT	08866962.7	2232935	2232935	European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-EP-ETD	11175293.7	2385737		European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-ES-EPT	08866962.7	2232935	2232935	Spain	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-FI-EPT	08866962.7	2232935	2232935	Finland	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-FR-EPT	08866962.7	2232935	2232935	France	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-GB-EPT	08866962.7	2232935	2232935	United Kingdom	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-GR-EPT	08866962.7	2232935	2232935	Greece	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-HK-FPR	12102990.2	1162821		Hong Kong	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-IE-EPT	08866962.7	2232935	2232935	Ireland	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-IT-EPT	08866962.7	2232935	2232935	Italy	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-LU-EPT	08866962.7	2232935	2232935	Luxembourg	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-NL-EPT	08866962.7	2232935	2232935	Netherlands	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-NO-EPT	08866962.7	2232935	2232935	Norway	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-PT-EPT	08866962.7	2232935	2232935	Portugal	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-SE-EPT	08866962.7	2232935	2374763T3	Sweden	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-US-PAT	12/341948	2009/0168715		United States Of America	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
33136-US-PRV	61/016920			United States Of America	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33136-WO-PCT	PCT/US2008/088054	2009/086321		International Procedure	SYSTEM AND METHOD FOR UPLINK RESOURCE REUSE
33220-AU-PCT	2009212717	2009212717	2009212717	Australia	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-BR-PCT	PI0907367-1	PI0907367-1		Brazil	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-CA-PCT	2713870		2713870	Canada	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-CN-PCT	200980108418.1	101971509	200980108418.1	China	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-DE-EPT	09708667.2	2248270	602009029925.5	Germany	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-DE-ETD	14167577.7	2806568	2806568	Germany	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-EP-EPD	15194137.4	3002881		European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-EP-EPT	09708667.2	2248270	2248270	European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-EP-ETD	14167577.7	2806568	2806568	European Procedure (Patents)	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-ES-EPT	09708667.2	2248270	2248270	Spain	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-ES-ETD	14167577.7	2806568	2806568	Spain	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
33220-FI-EPT	09708667.2	2248270	2248270	Finland	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-FI-ETD	14167577.7	2806568	2806568	Finland	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-FR-EPT	09708667.2	2248270	2248270	France	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-FR-ETD	14167577.7	2806568	2806568	France	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-GB-EPT	09708667.2	2248270	2248270	United Kingdom	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-GB-ETD	14167577.7	2806568	2806568	United Kingdom	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-HK-FPR	11103621.8	1149648		Hong Kong	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-HK-FPR[2]	15104778.3	1204165		Hong Kong	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-IE-EPT	09708667.2	2248270	2248270	Ireland	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-IE-ETD	14167577.7	2806568	2806568	Ireland	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-IN-PCT	4963/CHENP/2010	4963/CHENP/2010		India	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-JP-PCD	2012-191838	2013-9414	5547251	Japan	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-JP-PCT	2010-545193	2011-514723		Japan	SYSTEM AND METHOD FOR UPLINK TIMING

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
					SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-KR-PCD	2012-7008432	2012-0043144	1232971	South Korea / Republic of Korea	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-KR-PCT	2010-7019553	2010-0117102	1184535	South Korea / Republic of Korea	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-MX-PCT	MX/a/2010/008477	MX/a/2010/008477	315495	Mexico	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-NL-EPT	09708667.2	2248270	2248270	Netherlands	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-NL-ETD	14167577.7	2806568	2806568	Netherlands	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-SE-EPT	09708667.2	2248270	2248270	Sweden	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-SE-ETD	14167577.7	2806568	2806568	Sweden	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-SG-PCD	201300826.3	188107	188107	Singapore	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-SG-PCT	201005573.9			Singapore	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-CNT	13/244805	2012/0044848	8594035	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-CNT[2]	14/086302	2014/0079017	8902846	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-CNT[3]	14/522277	2015/0043412	9155045	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
					DISCONTINUOUS RECEPTION
33220-US-CNT[4]	14/795441	2015/0312856	9247498	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-CNT[5]	14/926240	2016/0066292		United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-PCT	12/865652	2011/0158188	8634361	United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-US-PRV	61/025485			United States Of America	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33220-WO-PCT	PCT/US2009/032591	2009/099931		International Procedure	SYSTEM AND METHOD FOR UPLINK TIMING SYNCHRONIZATION IN CONJUNCTION WITH DISCONTINUOUS RECEPTION
33233-CA-PCT	2714407		2714407	Canada	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-EP-EPT	09709291.0	2250847		European Procedure (Patents)	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-EP-ETD	13152742.6			European Procedure (Patents)	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-EP-ETD[2]	14174095.1	2840846		European Procedure (Patents)	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-HK-FPR	11104745.7	1150922		Hong Kong	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-US-PCT	12/866692	2011/0039553	8918122	United States Of America	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-US-PRV	61/027279			United States Of America	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
33233-WO-PCT	PCT/US2009/033254	2009/100244		International Procedure	SYSTEM AND METHOD FOR UNIFORM PAGING DISTRIBUTION
35671-1-US-PAT	12/816120	2010/0317360	8359039	United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-1-US-PRV	61/258525			United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-1-WO-	PCT/US2010/038684	2010/147995		International	SYSTEM AND METHOD FOR SHARING A CONTROL

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
PCT				Procedure	CHANNEL FOR CARRIER AGGREGATION
35671-2-CA-PCT	2797400		2797400	Canada	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-CN-PCD	201510969191.7			China	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-CN-PCT	201180031944.X	102948110	201180031944.X	China	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-EP-EPT	11726245.1	2564547		European Procedure (Patents)	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-JP-PCT	2013-508093	2013-529010	5527913	Japan	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-KR-PCT	10-2012-7031262	10-2013-0021393	1485878	South Korea / Republic of Korea	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-US-PCD	14/463388	2014/0376490		United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-US-PCD[2]	14/833927	2016/0037496		United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-US-PCT	13/695378	2013/0142142	9119195	United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-US-PRV	61/330157			United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-2-WO-PCT	PCT/US2011/034855	2011/137455		International Procedure	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL FOR CARRIER AGGREGATION
35671-CA-PCT	2760431	2760431	2760431	Canada	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-CN-PCT	201080036242.6	102804672		China	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-EP-EPT	10731645.7	2443783		European Procedure (Patents)	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-HK-FPR	12110618.7	1170083		Hong Kong	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-JP-PCT	2012-515228	2012-530407		Japan	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-KR-PCT	10-2012-7000944	2012-0031062		South Korea / Republic of Korea	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-US-PAT	12/816104	2010/0316146		United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
35671-US-PRV	61/187070			United States Of America	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35671-WO-PCT	PCT/US2010/038674	2010/147988		International Procedure	SYSTEM AND METHOD FOR SHARING A CONTROL CHANNEL CARRIER AGGREGATION
35720-1-AU-PCT	2010260197		2010260197	Australia	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-BR-PCT	PI1013144.2			Brazil	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-CA-PCT	2764394			Canada	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-CN-PCT	201080036240.7	102804904	ZL201080036240.7	China	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-DE-EPT	10735361.7	2443899	602010028404.2	Germany	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-DE-ETD	12151175.2	2451239	602010023890.3	Germany	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-EP-EPT	10735361.7	2443899	2443899	European Procedure (Patents)	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-EP-ETD	12151175.2	2451239	2451239	European Procedure (Patents)	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-EP-ETD[2]	15190497.6	2991259		European Procedure (Patents)	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-ES-ETD	12151175.2	2451239	2540202	Spain	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-FI-ETD	12151175.2	2451239	2451239	Finland	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
35720-1-FR-EPT	10735361.7	2443899	2443899	France	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-FR-ETD	12151175.2	2451239	2451239	France	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-GB-EPT	10735361.7	2443899	2443899	United Kingdom	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-GB-ETD	12151175.2	2451239	2451239	United Kingdom	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-HK-FPR	13100191.2	1173026	1173026	Hong Kong	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-IE-ETD	12151175.2	2451239	2451239	Ireland	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-IN-PCT	9071/CHENP/2011	9071/CHENP/2011		India	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-JP-PCT	2012-515227	2012-530406		Japan	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-KR-PCT	10-2011-7031636	10-2012-0025563	1358608	South Korea / Republic of Korea	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-MX-DIV	MX/a/2015/006267			Mexico	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-MX-PCT	MX/a/2011/013042	MX/a/2011/013042	330173	Mexico	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-NL-ETD	12151175.2	2451239	2451239	Netherlands	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-SE-	12151175.2	2451239	2451239	Sweden	METHOD AND SYSTEM FOR DISCONTINUOUS

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
ETD					RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-SG-PCT	201108711.1		176230	Singapore	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-US-PCT	12/811315	2011/0294491		United States Of America	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-US-PRV	61/220886			United States Of America	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-1-WO-PCT	PCT/US2010/038647	2010/147967		International Procedure	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-AU-PCT	2010260186		2010260186	Australia	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-BR-PCT	1120120002015			Brazil	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-CA-PCT	2764543		2764543	Canada	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-CN-PCT	201080026244.7	102461320	201080026244.7	China	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-DE-EPT	10731643.2	2443898	602010026608.7	Germany	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-EP-EPD	15169082.3	2930980		European Procedure (Patents)	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-EP-EPT	10731643.2	2443898	2443898	European Procedure (Patents)	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-FR-EPT	10731643.2	2443898	2443898	France	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
					EVOLUTION ADVANCED CARRIER AGGREGATION
35720-GB-EPT	10731643.2	2443898	2443898	United Kingdom	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-HK-FPR	12106791.4			Hong Kong	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-IN-PCT	8845/CHENP/2011	8845/CHENP/2011		India	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-JP-PCT	2012-515225	2012-530405		Japan	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-KR-PCD	10-2014-7002055	10-2014-0023444	1397724	South Korea / Republic of Korea	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-KR-PCT	10-2012-7000500	10-2012-0028367		South Korea / Republic of Korea	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-MX-PCT	MX/a/2011/012801		320443	Mexico	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-NL-EPT	10731643.2	2443898	2443898	Netherlands	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-SG-PCT	201108639.4		176594	Singapore	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-US-PCT	12/811301	2011/0292851		United States Of America	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-US-PRV	61/187095			United States Of America	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION
35720-WO-PCT	PCT/US2010/038628	2010/147956		International Procedure	METHOD AND SYSTEM FOR DISCONTINUOUS RECEPTION OPERATION FOR LONG TERM EVOLUTION ADVANCED CARRIER AGGREGATION

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
36339-CA-PCT	2771151		2771151	Canada	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
36339-CN-PCT	201080036056.2	102860090	201080036056.2	China	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
36339-EP-EPT	10751736.9			European Procedure (Patents)	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
36339-US-PAT	12/856270	2011/0194505	8369253	United States Of America	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
36339-US-PRV	61/234216			United States Of America	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
36339-WO-PCT	PCT/US2010/45452	2011/020002		International Procedure	METHODS AND APPARATUS TO SUPPORT VOICE SOLUTIONS FOR DATA CENTRIC TERMINALS
44583-GB-PAT	0724904.8			United Kingdom	IMPROVED HANDOVER FOR CELLULAR RADIO SYSTEMS
44583-US-CNT	13/115388	2011/0223906	8208926	United States Of America	HANDOVER FOR CELLULAR RADIO SYSTEMS
44583-US-CNT[2]	13/461654	2012/0276902	8594676	United States Of America	HANDOVER FOR CELLULAR RADIO SYSTEMS
44583-US-CNT[3]	13/617234	2013/0012209	8594677	United States Of America	HANDOVER FOR CELLULAR RADIO SYSTEMS
44583-US-PAT	12/238141	2009/0163212	7953413	United States Of America	HANDOVER FOR CELLULAR RADIO SYSTEMS
44609-US-PAT	11/488366	2007/0274252	7623487	United States Of America	OFDM SYSTEM AND METHOD FOR SUPPORTING A WIDE RANGE OF MOBILITY SPEEDS
44616-CA-PAT	2230589	2230589	2230589	Canada	DETERMINING DOPPLER BANDWIDTH OF A RECEIVED SIGNAL FROM A DETERMINED POWER OF A SIGNAL
44616-US-DIV	09/693870		6603962	United States Of America	DETERMINING SIR IN A COMMUNICATIONS SYSTEM
44616-US-PAT	09/116479		6330432	United States Of America	DETERMINING SIR IN A COMMUNICATIONS SYSTEM
44637-US-CNT	12/983692	2011/0103362	8526356	United States Of America	TRANSMISSION FORMAT SELECTION FOR OPTIMIZING TRANSMISSION OF DELAY SENSITIVE TRAFFIC
44637-US-CNT[2]	13/619970	2013/0010771	9203756	United States Of America	TRANSMISSION FORMAT SELECTION FOR OPTIMIZING TRANSMISSION OF DELAY SENSITIVE TRAFFIC

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BlackBerry Reference	Filing Num.	Pub. Num.	Granted Num.	Country	Title
44637-US-PAT	11/239864		7864777	United States Of America	TRANSMISSION FORMAT SELECTION FOR OPTIMIZING TRANSMISSION OF DELAY SENSITIVE TRAFFIC
44722-US-PAT	09/095170		6799046	United States Of America	METHOD AND SYSTEM FOR LOCATING A MOBILE TELEPHONE WITHIN A MOBILE TELEPHONE COMMUNICATION NETWORK

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