

1) Family number: 57700464 (US2014328190A)

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Title: CLOUD-BASED MANAGEMENT PLATFORM FOR HETEROGENEOUS WIRELESS DEVICES

Abstract: A method of managing heterogeneous wireless devices in three or more different types of networks is disclosed. Each type of network uses a different type of radio access technology. The method includes receiving measurement data from a plurality of heterogeneous wireless devices via a control interface, wherein a heterogeneous wireless device provides connections to client devices via one or more of the three or more radio access technologies. The method includes searching, using a processor, for optimized adjustments to one or more parameters associated with one or more of the plurality of heterogeneous wireless devices based at least in part on a set of network optimization goals and the measurement data received from the plurality of heterogeneous wireless devices. The method includes transmitting at least some of the optimized adjustments of the one or more parameters to the one or more of the plurality of heterogeneous wireless devices.

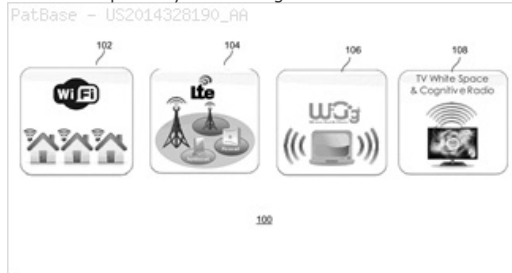
Classifications:

International (IPC 8-9): G01R31/08 H04W24/02 H04W24/08

H04W36/14 H04W48/16 H04W88/06 (Advanced/Invention)

CPC: H04W24/08 H04W88/06 H04W36/14 H04W24/02

US: 370/252



Family:

Publication number	Publication date	Application number	Application date
US2014328190 AA	20141106	US20140261317	20140424
US9661515 BB	20170523	US20140261317	20140424
WO14176503 A1	20141030	WO2014US35457	20140425

Priority:

US20130816011P 20130425 US20130830990P 20130604 US20140261317 20140424

Probable Assignee: PLUME DESIGN INC

Assignee(s): ACCELERA MOBILE BROADBAND INC ; PLUME DESIGN INC ; WILDFIRE EXCHANGE INC

Assignee(s): WILDFIREEXCHANGE INC ; ACCELERA INC

Inventor(s): (std): LORD MARTIN J ; LIKAR BOJAN ; GOLDSMITH ANDREA ; ABU HAKIMA IHAB

Agent(s): CLEMENTS BERNARD WALKER PLLC; LAWRENCE A; CHRISTOPHER L; TONG GRACE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 46173011 (US2010184435A)

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Title: METHODS AND APPARATUS FOR PROVIDING A WIRELESS EXPANSION NETWORK

Abstract: Methods and apparatus for providing a wireless expansion network. In an aspect, an apparatus includes an expansion circuit configured to identify at least one of a selected uplink (UL) channel and a selected downlink (DL) channel that are provided by one of a primary network and an expansion network, and a processing circuit configured to switch to the at least one of the selected UL and DL channels. An apparatus includes means for obtaining link parameters associated with a primary network and an expansion network, means for identifying clients that are assigned transmission channels on both the primary network and the expansion network based on the link parameters, and means for transmitting messages to the clients to indicate the assigned transmission channels.

Classifications:

International (IPC 8-9): H04B7/04 H04W16/02 H04W16/14

H04W36/00 H04W36/06 H04W72/04 H04W72/12

H04W88/10 (Advanced/Invention);

H04W72/04 (Advanced/Non-invention);

H04W36/00 H04W72/00 (Core/Invention);

H04W72/00 H04W72/12 (Core/Non-invention)

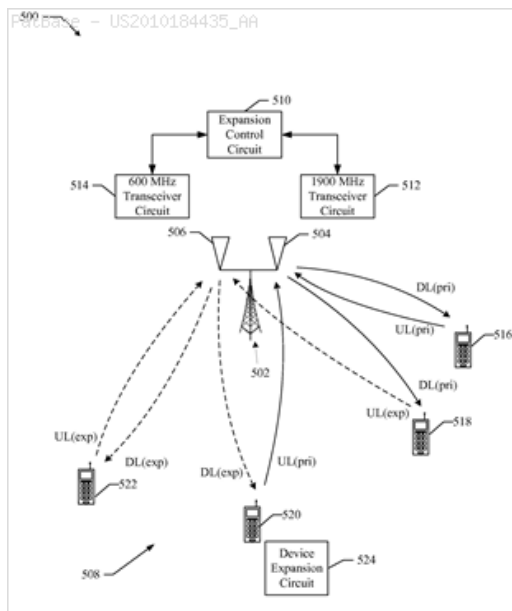
CPC: H04W36/385 H04B1/406 H04W72/08 H04W72/1205

H04W72/0453

European: H04W36/38N

US: 370/331 370/335 370/338 370/341 370/441 455/420 455/436

455/438 455/443 455/444 455/448 455/450 455/453 455/454



Family:

Publication number	Publication date	Application number	Application date
BRPI0924151 A2	20180327	BR2009PI24151	20090323
CN102293040 A	20111221	CN200980155359	20090323
CN107071910 A	20170818	CN201710073362	20090323
EP2389778 A1	20111130	EP20090789534	20090323
IN01339MN2011 A	20120106	IN2011MN01339	20110628
JP2012516108 T2	20120712	JP20110547906T	20090323
JP5462282 B2	20140402	JP20110547906T	20090323
KR101359226 B1	20140205	KR20117019402	20090323
KR101426189 B1	20140731	KR20127033532	20090323
KR20110119721 A	20111102	KR20117019402	20090323
KR20130004941 A	20130114	KR20127033532	20090323
TW201029503 A	20100801	TW20090109418	20090323
US2010184435 AA	20100722	US20090357797	20090122
US8577377 BB	20131105	US20090357797	20090122
WO10085264 A1	20100729	WO2009US37990	20090323

Priority:

US20090357797 20090122 CN200980155359 20090323 WO2009US37990 20090323

Probable Assignee: QUALCOMM INC

Assignee(s): (std): NGUYEN CONG T ; QUALCOMM INC ; SADEK AHMED K ; SHELLHAMMER STEPHEN ; SHELLHAMMER STEPHEN J

Assignee(s): QUALCOMM INCORPORATEDUS

Inventor(s): (std): AHMED K SADEK ; CONG T NGUYEN ; STEPHEN SHELLHAMMER ; SHELLHAMMER STEPHEN J ; SHELLHAMMER STEPHEN ; SADEK AHMED K ; NGUYEN CONG T

Agent(s): CARSTENS DIRK WILHELM; QUALCOMM INC; MARY A; KAM T; TAM KAM T

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 41631728 (US2008075033A)

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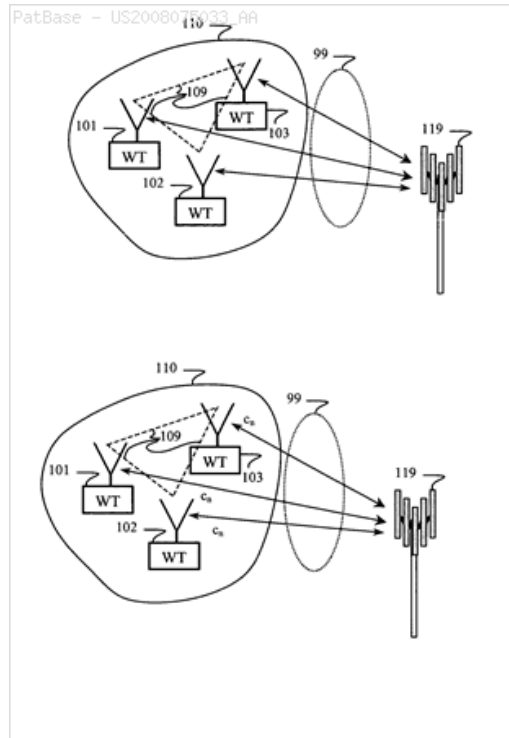
Title: COOPERATIVE BEAM-FORMING IN WIRELESS NETWORKS

Abstract: A beam-forming system comprises a cooperative array of wireless terminals coupled to at least one wireless wide area network (WWAN) and communicatively coupled to a wireless local area network (WLAN) configured to provide information exchanges between the wireless terminals. A cooperative beam-forming system employing the WLAN provides antenna-array processing benefits (such as frequency reuse, interference rejection, array-processing gain, antenna-switching diversity) to the individual wireless terminals. A network access operator facilitates network control functionality between the WWAN and the cooperative array of wireless terminals.

Classifications:

International (IPC 8-9): H04B1/00 H04B7/02 H04B7/024 H04B7/026 H04B7/04 H04B7/0452 H04B7/0456 H04B7/06 H04B7/216 H04J11/00 H04J13/00 H04J13/12 H04L1/00 H04L1/06 H04L12/24 H04L12/28 H04L12/707 H04L12/801 H04L12/803 H04L27/01 H04L27/148 H04L27/26 H04L5/00 H04Q7/00 H04W4/00 H04W52/26 H04W52/34 H04W52/42 H04W72/04 H04W84/12 H04W84/18 H04W88/02 (Advanced/Invention); H04B7/024 H04B7/0456 H04J13/12 H04L27/26 H04L5/00 H04W52/34 H04W72/04 H04W84/18 (Advanced/Non-invention); H04B7/204 (Core/Invention) **CPC:** H04W72/0453 H04W52/267 H04B7/0617 H04W72/082 H04L41/0226 H04L12/2854 H04W72/0413 H04L27/2633 H04W88/02 H04B1/0003 H04L5/0023 H04B7/0626 H04L5/0037 H04L5/0073 H04L47/10 H04W52/42 H04W84/18 H04J13/12 H04L27/2636

H04L5/0007 H04B7/0697 H04L27/01 H04L27/148 H04L27/2647
H04L27/265 H04B7/0452 H04L27/2646 H04L27/2628 H04L27/2615
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H04L27/2602 H04L27/2614 H04L45/24 H04W72/046 H04L1/0681
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H04L5/0035 H04B7/0456
European: H04B7/02M2 H04J13/00A H04J13/00B7 H04L27/26M1
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T04L5/00A3A5 T04W72/04H6 T04W84/18
US: 1/1 370/208 370/208 370/209 370/210 370/252 370/310
370/315 370/328 370/328P 370/329 370/334 370/335 370/335P
370/338 370/338P 370/341 370/342 370/431 375/146 375/260
375/267 375/295 375/340 455/13.1 455/422.1 455/447 455/450
455/451 455/452.1 455/452.2 455/561 455/562.1 455/7



Family:

Publication number	Publication date	Application number	Application date
US2008075033 AA	20080327	US20050187107	20050722
US2008095121 AA	20080424	US20020145854	20020514
US2009310586 AA	20091217	US20090545572	20090821
US2014140188 AA	20140522	US20140164253	20140126
US2014140189 AA	20140522	US20140164254	20140127
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US2014146924 AA	20140529	US20140168466	20140130
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US2015263835 AA	20150917	US20150727769	20150601
US2016254889 AA	20160901	US20160149382	20160509
US2017126458 AA	20170504	US20160396567	20161231
US2017279506 AA	20170928	US20170618888	20170609
US8670390 BB	20140311	US20050187107	20050722
US8750264 BB	20140610	US20090545572	20090821
US8942082 BB	20150127	US20140168442	20140130
US9042333 BB	20150526	US20140275161	20140512
US9048897 BB	20150602	US20140276309	20140513
US9136931 BB	20150915	US20140511585	20141010
US9225471 BB	20151229	US20140164253	20140126
US9270421 BB	20160223	US20140164254	20140127
US9628231 BB	20170418	US20160149382	20160509
US9800448 BA	20171024	US20170489664	20170417
US9819449 BB	20171114	US20140168466	20140130
US9967007 BB	20180508	US20170618888	20170609

Priority:

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US20050187107	20050722	US20090545572	20090821	US20090245572	20090821
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US20140168466	20140130	US20140275161	20140512	US20140276309	20140513
US20140511585	20141010	US20150727769	20150601	US20160149382	20160509
US20160396567	20161231	US20170489664	20170417	US20170618888	20170609

Probable Assignee: GENGHISCOMM HOLDINGS LLC

Assignee(s): (std): GENGHISCOMM HOLDINGS LLC ; SHATTI STEVE ; SHATTIL STEVE J

Assignee(s): GENGHISCOMM

Inventor(s): (std): SHATTI STEVE ; SHATTIL STEVE J ; SHATTIL STEVE

Agent(s): STEVEN J SHATTIL ; STEVEN J

4) Family number: 46803945 (US2010227622A)

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Title: RESOURCE ALLOCATION IN CO-EXISTENCE MODE

Abstract: Techniques are disclosed that allow for resource allocation during situations requiring co-existence in cognitive radios. Even under situations of bandwidth scarcity, the techniques allow various users to be guaranteed quality of service (QoS) by proper distribution and allocation of resources. The techniques allow wireless communication systems to operate in a normal mode and a co-existence mode. In the co-existence mode of operation, sub-frame creation, sharing and zone

formation schemes are implemented that enable the existing underlying frame structure to remain intact and inter-operable with the legacy systems and at the same time, provide a guaranteed QoS. The zones effectively create partitions in space, time and frequency, which result in interference avoidance and allow various users in neighboring cells to communicate on the same frequencies.

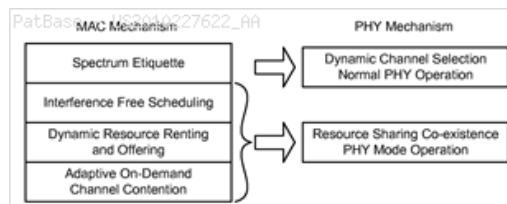
Classifications:

International (IPC 8-9): H04W72/00 (Advanced/Invention); H04W72/00 (Core/Invention)

CPC: H04W16/10 H04W72/04 H04W74/0808 H04W88/10

European: H04W16/10 T04W28/04 T04W72/04 T04W74/08B T04W88/10

US: 370/310 455/450 455/452.1 455/452.100P 455/552.1



Family:

Publication number	Publication date	Application number	Application date
US2010227622 AA	20100909	US20090399730	20090306
US8326309 BB	20121204	US20090399730	20090306

Priority:

US20090399730 20090306

Probable Assignee: BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC

Assignee(s): (std): BAE SYS INF AND ELECT SYS INTEG ; BAE SYSTEMS INFORMATION ; MODY APURVA N ; REDDY RANGA

Assignee(s): BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INT ; BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC ; SECRETARY OF ARMY AS US GOV ; BAE SYSTEMS INFORMATION AND ELECTRONICS SYSTEMS INTEGRATION INC

Inventor(s): (std): MODY APURVA N ; REDDY RANGA

Agent(s): BAE SYSTEMS; FINCH AND MALONEY PLLC; NEIL F

5) Family number: 64685174 (IN201631042984A)

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Title: METHOD AND APPARATUS FOR OPTIMAL TARGET CHANNEL SEQUENCE FOR A WIRELESS COMMUNICATION SYSTEM

Abstract: The present invention develops a method and apparatus incorporating Target Channel Sequence (TCS) generation and allocation operations that support cost-effective Voice over IP (VoIP) communication with Quality of Service (QoS) guarantees among higher number of opportunistic users in wireless communication system using Cognitive Radio (CR) technology that further increases spectrum utilization. Challenges of this invention include development of apparatus with robust CR based methods to avoid QoS degradation and channel access collisions during spectrum handoff operations by CR users. This invention incorporates TCS Generator apparatus that executes time-bound low-complexity optimal TCS method integrated with fair channel allocation and consensus operations and sustains VoIP calls for CR users with reduced spectrum handoff delays. P_TCS and R_TCS further ensure channel availability for all users. This invention is applicable to next-generation networks like 5G networks for incorporating VoIP services in social-networking, multimedia and Internet-of-Things centric applications with reduced spectrum congestion using CR networks.

Classifications:

International (IPC 8-9): G01R15/04 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201631042984 A	20170113	IN201631042984	20161216

Priority:

IN201631042984 20161216

Probable Assignee: CHAKRABORTY TAMAL

Assignee(s): CHAKRABORTY TAMAL ; SAHA MISRA ITI

Inventor(s): CHAKRABORTY TAMAL ; SAHA MISRA ITI

6) Family number: 48320766 (US2011039554A)

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Title: METHODS AND APPARATUS FOR PERFORMANCE OPTIMIZATION OF HETEROGENOUS WIRELESS SYSTEM COMMUNITIES

Abstract: Methods and apparatus for enhancing the operation and capacity of a wireless coexistence community having devices with multiple differing air interfaces that share physical or spectral access resources such as time, frequency, code, etc. These methods and apparatus allow the multiple devices to manage interference among one another fairly or according to one or more policy objectives, despite having different physical layer operations and implementations. In one embodiment, a mathematics-based model is utilized in accordance with device profiles to intelligently optimize the operation of one or more of the wireless devices according to a "good neighbor" paradigm.

Classifications:

International (IPC 8-9): H04L1/00 H04W4/00 H04W48/20 H04W72/08 (Advanced/Invention);

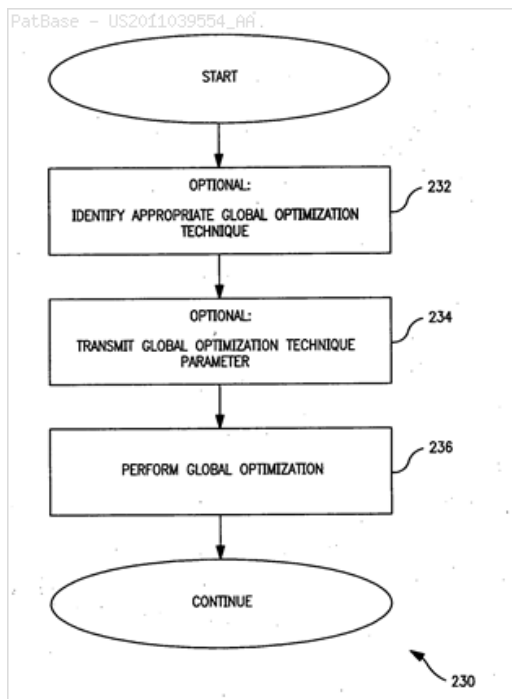
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H04W72/00 H04W8/24 H04W92/18 (Advanced/Non-invention)

CPC: H04L1/0033 H04L1/0003 H04L1/0009 H04W8/24 H04W28/04 H04W92/18

European: H04L1/00A13 T04L1/00A1M T04L1/00A5 T04W28/04 T04W8/24 T04W92/18

US: 370/329 370/347 375/150 375/260 455/423 455/434 455/434P 455/450 455/450S 455/452.2 455/456.2



Family:

Publication number	Publication date	Application number	Application date
US2011039554 AA	20110217	US20090540314	20090812
US8995996 BB	20150331	US20090540314	20090812

Priority:

US20090540314 20090812

Probable Assignee: APPLE INC

Assignee(s): (std): BIMS HARRY V

Assignee(s): APPLE INC

Inventor(s): (std): BIMS HARRY V

Agent(s): GAZDZINSKI AND ASSOCIATES PC; WOMBLE CARLYLE SANDRIDGE AND RICE LLP

7) Family number: 64382128 (US2017272956A)

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Title: INTER-NETWORK SHARED FREQUENCY SPECTRUM OPTIMIZATION SYSTEM AND METHOD

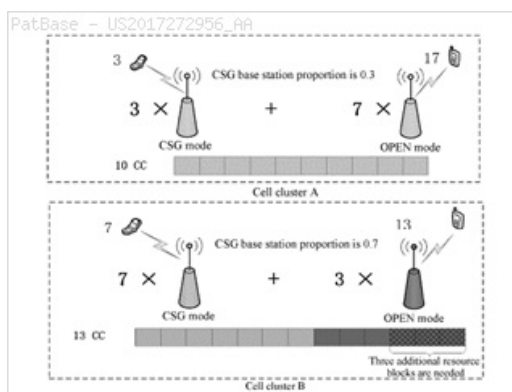
Abstract: Disclosed are an inter-network shared frequency spectrum optimization system and method. In the optimization method, a frequency spectrum resource allocated to a first network in a shared frequency spectrum pool comprises a frequency spectrum resource occupied by an OPEN mode base station in a first cell cluster, and a frequency spectrum resource allocated to a second network in the shared frequency spectrum pool comprises a frequency spectrum resource occupied by an OPEN mode base station in a second cell cluster, wherein the frequency spectrum resource occupied by each OPEN mode base station in the first cell cluster and the frequency spectrum resource occupied by each OPEN mode base station in the second cell cluster have the same size. The present invention improves the frequency spectrum efficiency and the base station service quality are improved.

Classifications:

International (IPC 8-9): H04L12/24 H04W16/10 H04W16/14

H04W24/02 H04W72/04 (Advanced/Invention)

CPC: H04W16/14 H04W24/02 H04L41/12 H04W72/0486 H04W88/08 H04W16/10 H04W84/045



Family:

Publication number	Publication date	Application number	Application date
CN106304093 A	20170104	CN201510323045	20150612
EP3310084 A1	20180418	EP20150894836	20151228
US2017272956 AA	20170921	US20150329802	20151228
WO16197583 A1	20161215	WO2015CN099266	20151228

Priority:

CN201510323045 20150612

WO2015CN099266 20151228

Probable Assignee: SHANGHAI RESEARCH CENTER FOR WIRELESS COMMUNICATIONS

Assignee(s): (std): SHANGHAI RES CENTER FOR WIRELESS COMMUNICATIONS ; SHANGHAI RES CENTRE FOR WIRELESS COMMUNICATION ; SHANGHAI RES CT WIRELESS COMM

Assignee(s): SHANGHAI RESEARCH CENTRE FOR WIRELESS COMMUNICATION ; SHANGHAI RESEARCH CENTER FOR WIRELESS COMMUNICATIONS

Inventor(s): (std): GU XUBO ; HORNEMAN KARI ; TENG YONG ; WANG JIANG ; XU JING ; CARRIE HORNEMAN

Agent(s): PATENTANWALTE OLBRIGHT BUCHHOLD KEULERTZ

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 54629994 (US2013273881A)

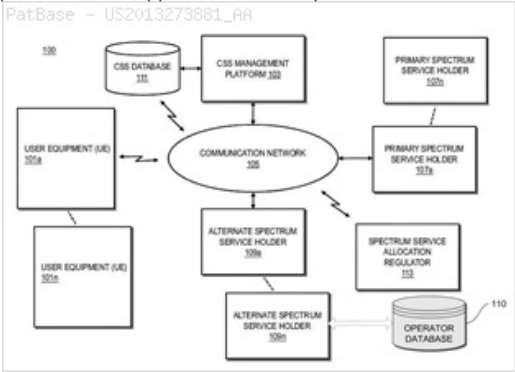
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Title: MULTI-MODE DEVICE (MMD) MIDDLEWARE FOR CLOUD SPECTRUM SERVICES SPECTRUM ALLOCATION

Abstract: A platform to facilitate transferring spectrum rights is provided that includes a database to ascertain information regarding available spectrum for use in wireless communications. The invention provides a middleware component usable in a mobile terminal device such as a multi-mode device, where the middleware component mediates between an application program and network interfaces and/or hardware to manage the interaction between the device and a cloud spectrum service. The middleware component coordinates scanning for available broadcast, multicast, and/or conditional access platforms, networks, and/or services, as well as maintaining connection with CSS network elements to enable flexible and optimal use of the spectrum and manages the resources among multiple radios and applications on the platform.

Classifications:

International (ipc 8-9): G06F15/173 G06F15/18 G06F17/00 G06F17/30 G06F17/40 G06F7/00 H04L12/24 H04L29/06 H04M1/00 H04W12/06 H04W16/10 H04W16/14 H04W24/08 H04W28/16 H04W28/24 H04W4/00 H04W4/24 H04W48/18 H04W72/00 H04W72/04 H04W72/12 H04W74/00 H04W76/02 H04W88/06 (Advanced/Invention); H04W28/16 H04W88/06 (Advanced/Non-invention)
CPC: H04W72/0486 H04W24/08 H04W72/0493 H04L41/0896 H04W72/1257 H04W4/24 H04W88/06 H04W28/16 H04W16/10 H04W74/002 H04W72/04 H04W16/14 H04W76/10
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Family:

Publication number	Publication date	Application number	Application date
CA2870408 AA	20140926	CA20122870408	20120430
CA2884176 AA	20140926	CA20122884176	20120430
CA2884176 C	20180102	CA20122884176	20120430
CN104170428 A	20141126	CN201280071916	20120606
CN104170430 A	20141126	CN201280071939	20120430
CN104170430 B	20180427	CN201280071939	20120430
CN104205094 A	20141210	CN201280071888	20120430
CN104221415 A	20141217	CN201280071926	20120417
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CN104364780 B	20180420	CN201280072309	20120430
CN104365129 A	20150218	CN201280071961	20120606
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