

Search query (18): [SP]: [0025] the inventive concept is now described, by way of example, with reference to the accompanying drawings, in which: [0026] fig. 1 is a schematic diagram illustrating a communications system according to embodiments[0027] figs. 2a, 2b, 2c illustrate an example sequence of events involving various wireless access networks according to embodiments[0028] figs. 3a, 3b illustrate an example sequence of events involving long term evolution (lte) wireless access networks according to embodiments[0029] fig. 4 illustrates an example lte wireless access network according to embodiments[0030] fig. 5 is a flowchart of methods according to embodiments[0031] figs. 6,7 are signalling diagrams illustrating events according to embodiments[0032] fig. 8 is a schematic diagram showing functional units of a control node according to embodiments[0033] fig. 9 schematically illustrates a computer program and a computer program product[0034] fig. 10 is a schematic diagram showing modules of a control node according to embodiments[0035] fig. 11 illustrates a system information block type 1 message format[0036] fig. 12 illustrates a correspondence between a warning type value and a warning type.

Results: 10

1) Family number: 70084107 (US2020077248A)

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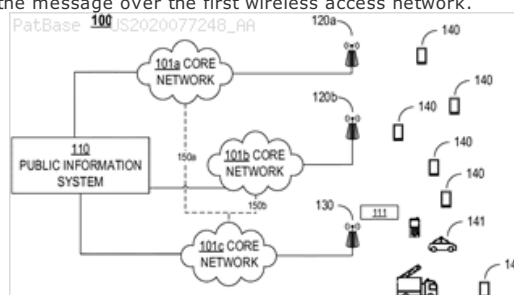
Title: IMPROVED PUBLIC INFORMATION SYSTEM

Abstract: A method for a public information system, adapted for broadcasting a message in a first wireless access network. The first wireless access network is arranged to, at least partly, overlap one or more further wireless access networks. The method comprises initiating a modified support announcement by the first wireless access network. The modified support announcement configured to announce support for the further wireless access networks by comprising network identifiers associated with the further wireless access networks, whereby a wireless device associated with a further wireless access network is prompted to connect to the first wireless access network, and initiating broadcasting of the message over the first wireless access network, whereby said wireless device may receive the message over the first wireless access network.

Classifications:

International (ipc 8-9): G08B1/08 H04B1/16 H04W24/04 H04W4/06 H04W4/22 H04W4/90 H04W48/10 H04W48/18 H04W68/10 H04W76/45 H04W76/50 (Advanced/Invention)

CPC: H04W24/04 H04W4/06 H04W48/18 H04W4/90 H04W48/10 H04W84/042 H04W76/45



Family:

Publication number	Publication date	Application number	Application date
CO20190005054 A2	20190521	CO20190005054	20190516
EP3542561 A1	20190925	EP20160809720	20161206
JP2020501421 T2	20200116	JP20190527362T	20161206
KR20190085118 A	20190717	KR20197018323	20161206
MX2019006395 A1	20190812	MX20190006395	20161206
TW201822478 A	20180616	TW20170135910	20171019
TWI656749 B	20190411	TW20170135910	20171019
US2020077248 AA	20200305	US20160467134	20161206
WO18103824 A1	20180614	WO2016EP79881	20161206

Priority:

WO2016EP79881 20161206

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): ERICSSON AB ; ERICSSON TELEFON AB L M ; TELEFONAKTIEBOLAGET L M ERICSSON ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): TELEFONAKTIEBOLAGET L M ERICSSON PUBL

Inventor(s): (std): AKESSON JOAKIM ; STIJVE SANNE ; JOAKIM AKESSON ; SANNE STIJVE

Agent(s): ERICSSON

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 DJ 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 KW 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

2) Family number: 58404145 (US2016183179A)

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Title: METHODS AND DEVICES FOR CELL SELECTION

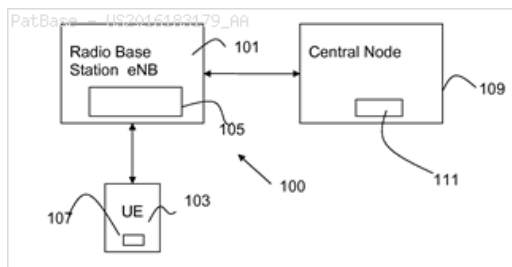
Abstract: Described are, among other things, methods and devices for cell selection or cell reselection in a UE, where the UE can connect to multiple radio access networks. The UE can receive a message indicating the priority of the Public Land Mobile Network that the UE belong to and performing cell selection/cell reselection based on the message.

Classifications:

International (ipc 8-9): H04W4/00 H04W48/08 H04W48/10 H04W48/12 H04W48/18 (Advanced/Invention); H04W48/16 H04W84/04 (Advanced/Non-invention)

CPC: H04W4/00 H04W48/12 H04W48/18 H04W48/08 H04W84/042

US: 1/1 455/434



Family:

Publication number	Publication date	Application number	Application date
■ CN105580438 A	20160511	CN201380078441	20130724
■ CN105580438 B	20190625	CN201380078441	20130724
■ EP3025550 A1	20160601	EP20130890000	20130724
■ EP3025550 A4	20170104	EP20130890000	20130724
■ EP3025550 B1	20200108	EP20130890000	20130724
■ US2016183179 AA	20160623	US20130906612	20130724
■ US9900834 BB	20180220	US20130906612	20130724
■ WO15010267 A1	20150129	WO2013CN079962	20130724

Priority:

WO2013CN079962 20130724

Probable Assignee: TELEFONAKTIEBOLAGET L M ERICSSON PUBL

Assignee(s): (std): ERICSSON TELEFON AB L M ; ERICSSON TELEFON AB L M PUBL ; FAN RUI ; TELEFONAKTIEBOLAGET L M ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON

Inventor(s): (std): FAN RUI ; LI GEN

Agent(s): LIND ROBERT; ZACCO SWEDEN AB; MURPHY BILAK AND HOMILLER PLLC; CHINA PATENT AGENT HK LTD

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 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 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

3) Family number: 77050280 (WO19244033A1)

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Title: METHOD AND APPARATUS FOR CONTROLLING ACCESS TO HOSTED VIRTUAL NETWORK USING NETWORK IDENTIFIERS

Abstract: Methods, apparatuses and computer program products are provided to provide access control to a hosted virtual network in a communications system. An example method, apparatus and computer program product is configured to transmit a network identifier associated with a hosted virtual network to one or more allowed user equipment in a coverage area via a radio access network in the coverage area. The network identifier may include a Public Land Mobile Network identifier and a centrally or locally managed network identifier. The network identifier is configured to be stored on the one or more user equipment. The method, apparatus and computer program product is further configured to bar access to the hosted virtual network for one or more user equipment that are not allowed user equipment.

Classifications:

International (IPC 8-9): H04W48/02 (Advanced/Invention);

H04W48/08 H04W48/12 (Advanced/Non-invention)

CPC: H04W48/02 H04W48/08 H04W48/12

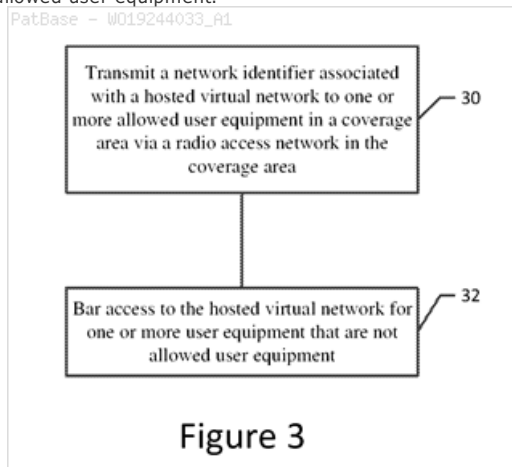


Figure 3

Family:

Publication number	Publication date	Application number	Application date
■ WO19244033 A1	20191226	WO2019IB55103	20190618

Priority:

US20180686571P 20180618

Probable Assignee: NOKIA TECHNOLOGIES OY

Assignee(s): (std): NOKIA TECHNOLOGIES OY ; NOKIA USA INC

Inventor(s): (std): CHANDRAMOULI DEVAKI ; SARTORI CINZIA ; THIEBAUT LAURENT

Agent(s): GOSNELL GUY R ET AL

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

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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

6) Family number: 31518750 (US2007161373A)

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Title: METHOD FOR JOINT USE OF A RADIO ACCESS NETWORK BY SEVERAL MOBILE RADIO PROVIDERS

Abstract: A method for mobile radio suppliers to provide or share or jointly use a mobile radio access network is provided. Said method is characterized in that a single radio access network (9; 12), which is operated according to UMTS standard, cdma2000 standard, or GSM standard, for example, is jointly used by several mobile radio suppliers. In order to do so, the mobile radio networks comprise a common radio access network but separate core networks. Preferably several PLMN IDs are transmitted by the common radio access network and are made available to the user terminal for selection. The inventive method allows a joint radio access network to be made accessible to different mobile radio suppliers, a mobile radio user selecting one of several transmitted preferably PLMN IDs and using services (CS or PS) via the associated core network of the selected mobile radio operator.

Classifications:

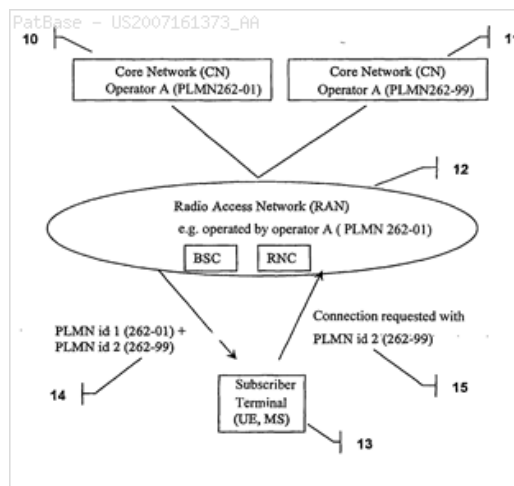
International (IPC 8-9): H04W48/18 (Advanced/Invention);
H04W48/12 (Advanced/Non-invention);
H04W48/00 (Core/Invention)

International (IPC 1-7): H04M1/00 H04Q7/20 H04Q7/24

CPC: H04W48/12 H04W48/18

European: H04W24/063 H04W248/18 H04W48/18 T04W24/045
T04W248/12 T04W48/12

US: 1/1 455/434 455/434P 455/445 455/445S



Family:

Publication number	Publication date	Application number	Application date
AT492135 E	20110115	AT20040741297T	20040728
AT557560 E	20120515	AT20040011939T	20040728
DE10334872 A1	20050310	DE20031034872	20030729
DE502004012003 D1	20110127	DE200450012003T	20040728
DE502004013510 D1	20120712	DE200450013510T	20040728
DK1649670 T3	20110404	DK20040741297T	20040728
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EP1649670 A2	20060426	EP20040741297	20040728
EP1649670 B1	20101215	EP20040741297	20040728
EP1649670 B9	20110518	EP20040741297	20040728
EP2273826 A1	20110112	EP20100011939	20040728
EP2273826 B1	20120509	EP20100011939	20040728
EP2273826 B9	20121128	EP20100011939	20040728
ES2357838 T3	20110503	ES20040741297T	20040728
ES2388258 T3	20121011	ES20100011939T	20040728
ES2388258 T9	20130403	ES20100011939T	20040728
PL1649670 T3	20110930	PL20040741297T	20040728
PL2273826 T3	20121231	PL20100011939T	20040728
PT1649670 T	20110315	PT20040741297T	20040728
PT2273826 T	20120813	PT20100011939T	20040728
SI1649670 T1	20110429	SI20040031624T	20040728
SI2273826 T1	20120928	SI20040031906T	20040728
US2007161373 AA	20070712	US20040565912	20040728
US9386513 BB	20160705	US20040565912	20040728
WO05013583 A2	20050210	WO2004EP08430	20040728
WO05013583 A3	20050512	WO2004EP08430	20040728

Priority:

DE20031034872 20030729 EP20040741297 20040728 EP20100011939 20040728
WO2004EP08430 20040728

Probable Assignee: T MOBILE DEUTSCHLAND GMBH

Assignee(s): (std): KLATT AXEL ; T MOBILE DEUTSCHLAND GMBH ; TELEKOM DEUTSCHLAND GMBH

Assignee(s): VICI GIG HARBOR

Inventor(s): (std): KLATT AXEL

Inventor(s): AXEL KLATT

Agent(s): KUTZENBERGER WOLFF AND PARTNER PATENTANWALTSPARTNERSCHAFT MBB; RIEBLING PETER;
SCHWOEBEL KARL T; SCHWOEBEL THILO K; ISERN JORGE; NORRIS MCLAUGHLIN AND MARCUS;
COHEN AND HILDEBRAND PLLC

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

7) Family number: 43749770 (US2009233634A)

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Title: PUBLIC WARNING SYSTEM FOR MOBILE DEVICES

Abstract: A global system for mobile communications (GSM) enhanced data rate for GSM evolution (EDGE) radio access network (GERAN) compatible wireless transmit/receive unit (WTRU) and methods for receiving public warning system (PWS) messages via paging channels. The PWS messages may include earthquake and tsunami warning system (ETWS) messages. The PWS messages may include primary messages and secondary messages. A corresponding GERAN base station and methods capable of transmitting PWS messages.

Classifications:

International (IPC 8-9): H04L25/03 H04Q7/38 H04W4/00 H04W4/06 H04W4/12 H04W4/22 H04W4/90 H04W68/00

H04W88/02 (Advanced/Invention);

H04W4/00 H04W4/06 H04W4/12 H04W4/22

H04W68/00 (Core/Invention);

H04L25/03 H04Q7/38 (Core/Non-invention)

International (IPC 1-7): H04Q7/38

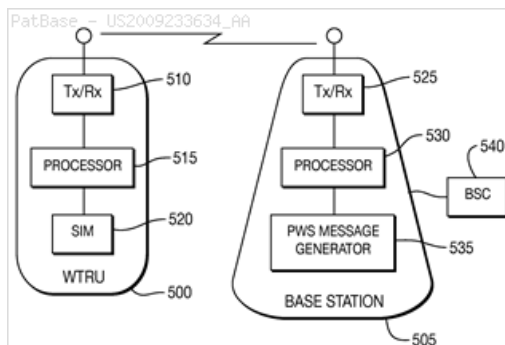
CPC: H04L67/18 H04W72/04 H04W88/02 H04W76/50 H04W76/40

H04W68/00 H04W4/90

European: H04W4/02 H04W4/22 H04W76/00B H04W76/00E

T04L29/08N17 T04W4/02 T04W68/00 T04W72/04 T04W88/02

US: 455/458 455/458P 455/466 455/466P 455/466S



Family:

Publication number	Publication date	Application number	Application date
AR070920 AA	20100512	AR2009P100949	20090317
CN201515498 U	20100623	CN200920149400U	20090317
TW200944027 A	20091016	TW20090108615	20090317
TWM371365 Y	20091221	TW20090204175U	20090317
US2009233634 AA	20090917	US20090404914	20090316
US2010099439 AA	20100422	US20090615896	20091110
WO09117366 A1	20090924	WO2009US37296	20090316
WO10054378 A1	20100514	WO2009US63882	20091110

Priority:

US20080037057P 20080317 US20080055509P 20080523 US20080113092P 20081110
US20090404914 20090316 US20090615896 20091110

Probable Assignee: INTERDIGITAL PATENT HOLDINGS INC

Assignee(s): (std): AGHILI BEHROUZ ; INTERACTIVE DIGITAL PATENT CO LTD ; INTERDIGITAL PATENT HOLDINGS ; RUDOLF MARIAN

Assignee(s): INTERDIGITAL PATENT HOLDINGS INC ; INTERACTIVE DIGITAL PATENT CO

Inventor(s): (std): RUDOLF MARIAN ; AGHILI BEHROUZ ; ARGHIYI B ; RUDOLPH M

Inventor(s): BARGHIYI ; MRUDOLPH ; B ARGHIYI ; M RUDOLPH

Agent(s): VOLPE AND KOENIG PC DEPT ICC; MCNAMARA JOSEPH E

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 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 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 PE 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

8) Family number: 53030884 (US2014128029A)

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Title: EXTENDED ACCESS BARRING

Abstract: A system and method for authorizing access to a transmission station for a mobile device is disclosed. The mobile device can receive device extended access barring (EAB) configuration information in a broadcast control channel (BCCH) from a transmission station. The mobile device can bar the mobile device configured for EAB and having characteristics identified in the EAB configuration information for barring from accessing the transmission station. Alternatively, a system and method for barring a mobile device from accessing a transmission station is disclosed. The transmission station can receive from the mobile device a radio resource control (RRC) connection establishment request. The transmission station can configure a system information block (SIB) with extended access barring (EAB) configuration information. The transmission station can broadcast the SIB with EAB configuration information to the mobile device.

Classifications:

International (IPC 8-9): H04W H04W12/06 H04W12/08 H04W28/02

H04W48/02 H04W48/06 H04W48/10 H04W48/12 H04W68/00

H04W72/04 H04W76/02 H04W76/04 H04W76/27 H04W80/04

H04W84/04 H04W88/02 H04W88/08 H04W92/12 (Advanced/Invention);

H04W84/04 (Advanced/Non-invention);

H04W (Subclass/Invention)

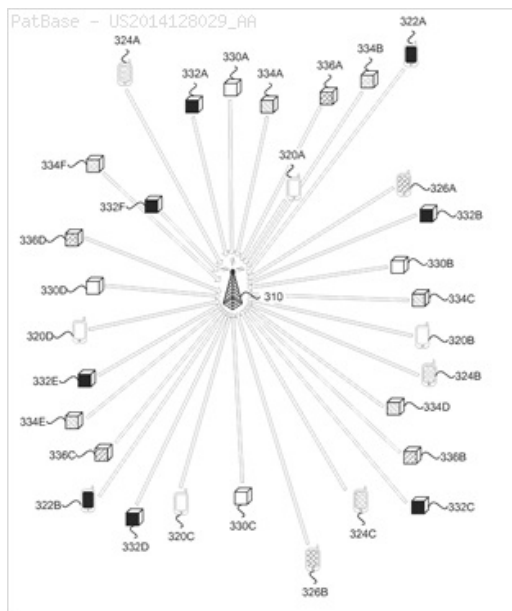
CPC: H04W76/046 H04W12/08 H04W28/0284 H04W68/005

H04W72/0413 H04W84/042 H04W12/06 H04W88/02 H04W48/02

H04W76/18 H04W48/10 H04W48/12 H04W48/06 H04W88/08

H04W76/27 H04W12/0802

US: 1/1 455/411 455/450



Family:

Publication number	Publication date	Application number	Application date
AU2011374906 AA	20140206	AU20110374906	20111222
AU2011374906 BB	20161208	AU20110374906	20111222
AU2016277717 AA	20170202	AU20160277717	20161223
AU2016277717 BB	20180308	AU20160277717	20161223
BR112014003031 A2	20170613	BR20141103031	20111222
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CN103797857 A	20140514	CN201180073187	20111222
CN105357738 A	20160224	CN201510869506	20111222
CN105357738 B	20190604	CN201510869506	20111222
DE112011105519 B4	20161103	DE201111105519T	20111222
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DE112011106091 B3	20161124	DE201111106091T	20111222
EP2742736 A1	20140618	EP20110870520	20111222
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EP2742736 B1	20200226	EP20110870520	20111222
EP3062562 A1	20160831	EP20160158146	20111222
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GB2507220 A1	20140423	GB20140001415	20111222
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GB2533506 A1	20160622	GB20160003962	20111222
GB2533506 B2	20161228	GB20160003962	20111222
HK1197712 A1	20150206	HK20140111370	20141111
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IN01080CN2014 A	20150410	IN2014CN01080	20140210
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KR20160012244 A	20160202	KR20167001035	20111222
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MY167489 A	20180830	MY20140700298	20111222
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RU2596602 C2	20160910	RU20140107660	20111222
US2014128029 AA	20140508	US20110994117	20111222
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US2016127980 AA	20160505	US20160992734	20160111

US2017164269 AA	20170608	US20170439390	20170222
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Priority:

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JP20150246293 20111222 US20110994117 20111222 WO2011US66918 20111222
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US20170439390 20170222 US20170486916 20170413

Probable Assignee: INTEL CORP

Assignee(s): (std): APPLE INC ; INTEL KORPOREJSHN ; JAIN PUNEET K ; JAIN PUNEET ; INTEL CORP ; FONG MO HAN ;
CHOI HYUNG NAM

Inventor(s): (std): CHOI HYUNG NAM ; CHOI KHYUN NAM ; DZHAIJN PUNEET ; FON MO KHAN ; FONG MO HAN ; HYUNG NAM
CHOI ; JAIN PUNEET ; MO HAN FONG ; PUNEET JAIN ; JAIN PUNEET K

Inventor(s): FONG MO ; CHOI HYUNG

Agent(s): FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; FPA
PATENT ATTORNEYS PTY LTD; SMART AND BIGGAR; SMART AND BIGGAR LLP; RICHES MCKENZIE AND
HERBERT LLP; JENNINGS VINCENT LOUIS; LANG JOHANNES; CHINA PATENT AGENT HK LTD; EITAN
MEHULAL AND SADOT; OHNUKI SHINSUKE; ITOH TADAHIGO; ITOH TADASHIGE; THORPE NORTH AND
WESTERN LLP; THORPE NORTH AND WESTERN; HAYMOND ALEX W

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 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
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MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW 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

9) Family number: 61386884 (US2017156039A)

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Title: METHODS AND SYSTEMS FOR SIMULTANEOUS TALKING IN A TALKGROUP USING A DYNAMIC CHANNEL CHAIN

Abstract: A mobile radio has selectable transmit and receive channels, and is in a talkgroup that has a primary channel and multiple auxiliary channels. The mobile radio receives a broadcast-start command, and responsively selects its transmit channel to be the primary channel (if available) or an inactive auxiliary channel (if the primary channel is not available). The mobile radio receives user media via its user interface, and transmits that received user media on its selected transmit channel. The mobile radio scans for an auxiliary channel transitioning from inactive to active. Responsive to detecting such a transition, the mobile radio selects that auxiliary channel as its receive channel. The mobile radio mixes inbound media received on its selected receive channel with user media received via its user interface, and transmits the mixed media on its selected transmit channel.

Classifications:

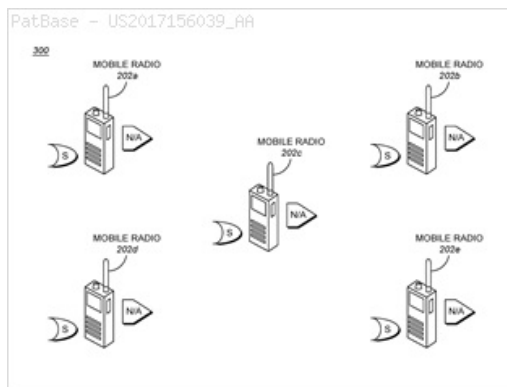
International (IPC 8-9): H04W4/10 H04W74/08 H04W76/00

H04W84/08 (Advanced/Invention);

H04W84/08 (Advanced/Non-invention)

CPC: H04W4/10 H04W74/0808 H04W84/08

US: 1/1 455/518



Family:

Publication number	Publication date	Application number	Application date
US2017156039 AA	20170601	US20140320000	20140710
US9686657 BA	20170620	US20140320000	20140710
WO16004600 A1	20160114	WO2014CN081984	20140710

Priority:

WO2014CN081984 20140710

Probable Assignee: MOTOROLA SOLUTIONS INC

Assignee(s): (std): MOTOROLA SOLUTIONS INC

Inventor(s): (std): LI YONG ; TIAN YONG ; ZHAO KANGKAI ; YANG WU ; CHEN DAJUN ; ZHAO KANG KAI ; CHEN DA JUN

Agent(s): CHINA SINDA INTELLECTUAL PROPERTY LTD

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
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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

Title: METHOD AND SYSTEM FOR SWITCHING A RADIO ACCESS TECHNOLOGY BETWEEN WIRELESS COMMUNICATION SYSTEMS WITH A MULTI-MODE WIRELESS TRANSMIT/RECEIVE UNIT

Abstract: A method and system for switching a radio access technology (RAT) between wireless communication systems connected to each other while implementing different RATs with a multi-mode WTRU are disclosed. A plurality of wireless communication systems are deployed with overlapping coverage areas wherein each system implements different RATs and are connected to each other such that a service that is provided by one system may be provided through the other system. Each wireless communication system transmits an indication of the existence of an inter-working wireless communication system in a coverage area of each system. The WTRU receives the indication and information regarding the inter-working wireless communication system. The WTRU then initiates a handoff to the inter-working wireless communication system using the received information, whereby the WTRU continues to receive the same services that the WTRU receives from the currently connected wireless communication system through the inter-working wireless communication system.

Classifications:

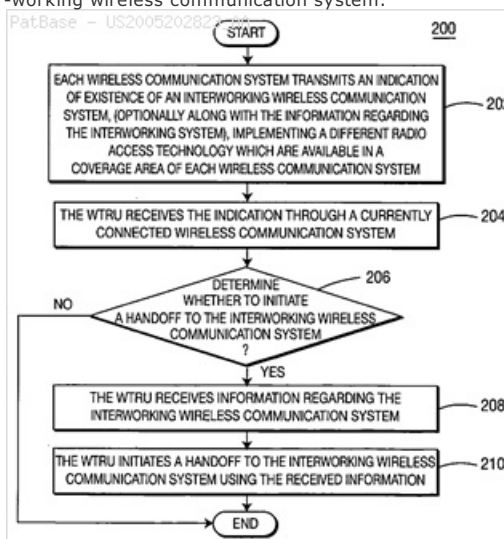
International (ipc 8-9): H04B7/26 H04L12/28 H04L12/46 H04L12/50 H04Q H04Q1/50 H04Q7/00 H04Q7/20 H04Q7/24 H04Q7/38 H04W H04W28/00 H04W36/00 H04W36/08 H04W36/14 H04W36/30 H04W36/34 H04W48/00 H04W48/14 H04W48/16 H04W48/18 H04W74/00 H04W88/06 H04W92/02 (Advanced/Invention); H04B7/26 H04L12/28 H04Q7/32 H04W36/04 H04W36/14 H04W48/18 H04W48/20 H04W84/12 H04W88/06 H04W92/02 (Advanced/Non-invention); H04Q7/24 H04Q7/38 (Core/Invention); H04Q7/32 H04Q7/38 H04W48/00 H04W84/02 H04W92/00 (Core/Non-invention); H04W (Subclass/Invention)

International (ipc 1-7): H04Q7/20 H04Q7/38

CPC: H04W24/00 H04W36/26 H04W36/04 H04W48/20 H04W84/12 H04W92/02 H04W36/005 H04W36/0061 H04W48/18 H04W36/14 H04W88/06

European: H04Q7/38H6 H04W20/12 H04W236/14 H04W36/00P6C H04W36/14 T04W24/063 T04W24/067 T04W248/18 T04W248/20 T04W284/12 T04W288/06 T04W292/02 T04W36/04 T04W36/14 T04W48/18 T04W48/20 T04W50/065 T04W52/027 T04W54/02 T04W84/12 T04W88/06 T04W92/02

US: 1/1 370/331 370/331P 455/411 455/411S 455/436 455/436P

**Family:**

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Priority:

US20040552561P 20040312 CN200580007899 20050311 EP20050725469 20050311
US20050077913 20050311 EP20090162291 20050311 WO2005US08315 20050311
WO2005US08315 20061012 HK20070105198 20070516 US20110084266 20110411
US20160193830 20160627

Probable Assignee: INTERDIGITAL TECHNOLOGY CORP

Assignee(s): (std): INTERDIGITAL TECH CORP ; INTERDIGITAL TECHNOLOGY CORP ; INTERDIGITAL TECHNOLOGY CORP INC ; KIERNAN BRIAN GREGORY ; SHAHEEN KAMEL M ; TERRY STEPHEN E ; WITHIN A DIGITAL TECHNOLOGY CO

Assignee(s): INTERDIGITAL TECHNOLOGY INC CORP

Inventor(s): (std): SHAHEEN KAMEL M TERRY STEPHEN ; BRIAN GREGORY KIERNAN ; KAMEL M SHAHEEN ; STEPHEN E TERRY ; KIERNAN BRIAN ; TERRY STEPHEN ; SHAHEEN KAMEL ; SHAHEEN KAMEL M M ; TERRY STEPHEN E E ; KIERNAN BRIAN GREGORY ; KIERNAN BRIAN G ; TERRY STEPHEN E ; SHAHEEN KAMEL M ; KIERN BRIAN GREGORY ; GREGORY KIERNAN BRIAN

Inventor(s): SHAHEEN KAMEL M TERRY STEPHEN E KIERNAN BRIAN G

Agent(s): RIDOUT AND MAYBEE LLP; PIERROU MATTIAS; HJALMARSSON MAGNUS AXEL; VIVIEN CHAN AND CO; MARKS AND CLERK; VOLPE AND KOENIG PC DEPT ICC; VOLPE AND KOENIG PC; CONDO ROCCIA KOPTIW LLP

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