

Diego Gonzalez

Search history

Search 1: STAC=(D2D and SR and BSR and LTE and MAC and UE and transm* and receiv*) (Results 0)
Search 2: STAC=(D2D and SR and BSR and LTE and MAC and UE) (Results 1)
Search 3: STAC=(D2D and SR and BSR and LTE and UE) (Results 1)
Search 4: STAC=(D2D and BSR and LTE and UE) (Results 7)

Title: SCHEDULING REQUEST PROCEDURE FOR **D2D** COMMUNICATION

Abstract: The present invention relates to a **D2D** capable a communication method and to a transmitting user equipment, which transmits data to a receiving user equipment over a direct link data channel, uses the services of the eNode B in order to have resources allocated for transmitting said data. To this end the **UE** sends to the eNB scheduling information using resources of a subframe dedicated for standard uplink communication through the eNode B, rather than using resources on the subframe dedicated to **D2D** data transmission. In order to allow the eNB to distinguish whether the received scheduling request is for allocating resources for transmitting data over the direct link channel or over the eNB, **UE** may send along with the scheduling information also identification information associated to the scheduling information.

Classifications:

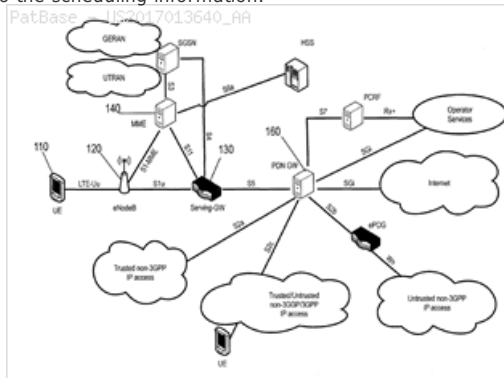
International (IPC 8-9): H04L12/28 H04L12/861 H04W72/04
H04W72/12 H04W74/04 H04W76/02 H04W92/18 (Advanced/Invention)

CPC: H04W72/1236 H04W72/1284 H04W76/14

US: 370/329

JP F-Term: 5K067 5K067/CC02 5K067/EE02 5K067/EE10
5K067/EE25 5K067/JJ12

JP F-Index: H04W72/04 H04W92/18

**Family:**

Publication number	Publication date	Application number	Application date
BR112016020289 A2	20170815	BR20161120289	20150122
CA2938617 AA	20160803	CA20152938617	20150122
CN106068670 A	20161102	CN201580013251	20150122
CO20160001781 A2	20170209	CO20160001781	20160912
EP2922360 A1	20150923	EP20140001053	20140321
ID201710455 A	20170929	ID2016P0005098	20150122
IN201647030333 A	20161104	IN201647030333	20160906
JP2017514347 T2	20170601	JP20160556823T	20150122
KR20160135193 A	20161125	KR20167025141	20150122
MX2016011772 A1	20170206	MX20160011772	20150122
RU2016136184 A	20180423	RU20160136184	20150122
TW201541900 A	20151101	TW20150107246	20150306
US2017013640 AA	20170112	US20150121016	20150122
WO15139862 A1	20150924	WO2015EP51231	20150122

Priority:

EP20140001053 20140321 WO2015EP51231 20150122

Probable Assignee: SUN PATENT TRUST

Assignee(s): (std): PANASONIC IP CORP AMERICA ; SUN PATENT TRUST

Assignee(s): BASU MALLICK PRATEEK ; LOEHR JOACHIM ; PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP

Inventor(s): (std): PRATEEK BASU MALLICK ; LOHR JOACHIM ; LOEHR JOACHIM ; BASU MALLICK PRATEEK

Inventor(s): JOACHIM LOEHR

Agent(s): GOWLING WLG CANADA LLP; JOSE ANDRES RINCON USCATEGUI; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; MUTIARA SUSENO LLB MH; KUHLE DIETMAR

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

Title: METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION

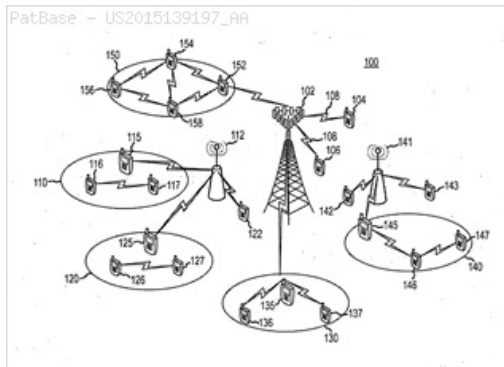
Abstract: Mobile communication devices, such as user equipment (**UE**) using 3GPP-**LTE** or **LTE** Advanced, may communicate directly with another **UE** through a system called Device-to-Device (**D2D**) communication. The establishment of a **D2D** communication session may involve having one of the **UEs** trigger the signaling procedures. In particular, a **D2D** resource re-allocation method may be used to optimize the **D2D** communication resource utilization efficiency in a dynamic manner, which is fully controlled by one of the **D2D** pair (termed the master **UE** or M-**UE**). The M-**UE** may be arranged to re-allocate resources based on the buffer status report (**BSR**) of the **UEs** in the **D2D** communication session. The M-**UE** may be further arranged to dynamically change the configuration of the transmission window based on characteristics of the **D2D** communication session.

Classifications:

International (IPC 8-9): H04B17/27 H04B7/212 H04J3/16 H04L12/24 H04L12/26 H04L12/703 H04L12/807 H04L29/06 H04L29/08 H04L5/00 H04N21/2343 H04N21/258 H04W12/06 H04W16/18 H04W24/02 H04W24/04 H04W24/10 H04W28/02 H04W28/04 H04W36/00 H04W4/00 H04W4/02 H04W40/02 H04W40/34 H04W52/00 H04W52/02 H04W64/00 H04W72/00 H04W72/04 H04W76/02 H04W76/04 H04W8/18 H04W88/06 (Advanced/Invention); H04W16/28 H04W36/14 H04W88/12 (Advanced/Non-invention)

CPC: H04W72/0446 H04L47/27 H04L5/00 H04L5/0057 H04L41/0659 H04L41/0836 H04L43/0811 H04L45/28 H04L65/1006 H04L65/4092 H04L65/80 H04L67/16 H04L67/303 H04N21/23439 H04N21/25825 H04W4/00 H04W4/02 H04W8/18 H04W12/06 H04W16/18 H04W16/28 H04W24/02 H04W28/0236 H04W28/04 H04W36/0072 H04W36/14 H04W40/02 H04W40/34 H04W52/00 H04W52/0209 H04W52/0212 H04W52/0216 H04W64/003 H04W72/005 H04W72/04 H04W72/0406 H04W72/0413 H04W72/044 H04W88/06 H04W88/12 H04W52/0258 H04B17/27 H04L5/0035 H04W52/0229 H04W74/0816 H04W92/18 H04W72/042 H04W28/0221 H04W24/04 H04W24/10 H04L41/082 H04L67/34 H04L67/36 H04L1/1861 H04L5/0055 H04W4/70 H04W4/80 H04W76/10 H04W76/11 H04W76/14 H04W76/15 H04W76/16 H04W76/28 Y02D70/00 Y02D70/1222 Y02D70/1224 Y02D70/1242 Y02D70/1244 Y02D70/1246 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/166 Y02D70/21 Y02D70/22 Y02D70/23 Y02D70/24 Y02D70/25

US: 1/1 370/329 370/336



Family:

Publication number	Publication date	Application number	Application date
US2015139197 AA	20150521	US20130126983	20130802
US9363702 BB	20160607	US20130126983	20130802

Priority:

US20120679627P 20120803 US20130126983 20130802 WO2013US53428 20130802

Probable Assignee: INTEL CORP

Assignee(s): (std): FONG MO HAN ; FWU JONG KAE ; HAN SEUNGHEE ; HE HONG ; HEO YOUN HYOUNG ; INTEL CORP

Inventor(s): (std): FONG MO HAN ; FWU JONG KAE ; HAN SEUNGHEE ; HE HONG ; HEO YOUN HYOUNG

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

Title: METHOD AND SYSTEM FOR ENABLING DEVICE-TO-DEVICE COMMUNICATION

Abstract: Mobile communication devices, such as user equipment (UE) using 3GPP- LTE or LTE Advanced, may communicate directly with another UE through a system called Device-to-Device (D2D) communication. The establishment of a D2D communication session may involve having one of the UEs trigger the signaling procedures. In particular, a D2D resource re-allocation method may be used to optimize the D2D communication resource utilization efficiency in a dynamic manner, which is fully controlled by one of the D2D pair (termed the master UE or M-UE). The M-UE may be arranged to re-allocate resources based on the buffer status report (BSR) of the UEs in the D2D communication session. The M-UE may be further arranged to dynamically change the configuration of the transmission window based on characteristics of the D2D communication session.

Classifications:

International (IPC 8-9): H04B17/24 H04B17/30 H04B17/373 H04B7/024 H04B7/06 H04B7/26 H04J11/00 H04L1/12 H04L29/02 H04L5/02 H04W24/10 H04W76/02 (Advanced/Invention)
CPC: H04L5/00 H04L5/0057 H04L41/0659 H04L41/0836 H04L43/0811 H04L45/28 H04L47/27 H04L65/1006 H04L65/4092 H04L65/80 H04L67/16 H04L67/303 H04N21/23439 H04N21/25825 H04W4/00 H04W4/02 H04W8/18 H04W12/06 H04W16/18 H04W16/28 H04W24/02 H04W28/0236 H04W28/04 H04W36/0072 H04W36/14 H04W40/02 H04W40/34 H04W52/00 H04W52/0209 H04W52/0212 H04W52/0216 H04W64/003 H04W72/005 H04W72/04 H04W72/0406 H04W72/0413 H04W72/044 H04W72/0446 H04W88/06 H04W88/12 H04W52/0258 H04L5/0035 H04W52/0229 H04W74/0816 H04W92/18 H04B17/27 H04W72/042 H04W28/0221 H04W24/04 H04W24/10 H04L41/082 H04L67/34 H04L67/36 H04L1/1861 H04L5/0055 H04B17/24 H04B7/024 H04B7/0626 H04B7/0639 H04W4/70 H04W4/80 H04W76/10 H04W76/11 H04W76/14 H04W76/15 H04W76/16 H04W76/28 Y02D70/00 Y02D70/1222 Y02D70/1224 Y02D70/1242 Y02D70/1244 Y02D70/1246 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/166 Y02D70/21 Y02D70/22 Y02D70/23 Y02D70/24 Y02D70/25

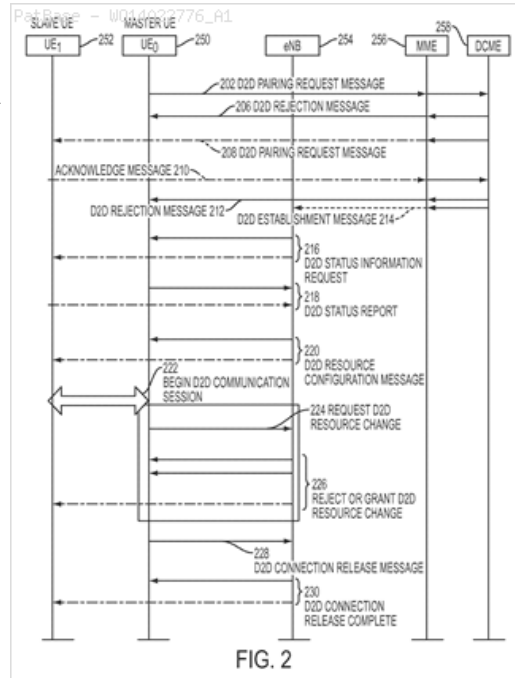


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
BR112015000462 A2	20170627	BR20151100462	20130627
CN104429150 A	20150318	CN201380035348	20130802
EP2880955 A1	20150610	EP20130826192	20130802
EP2880955 A4	20160720	EP20130826192	20130802
KR101872175 B1	20180627	KR20177020397	20130627
KR20170089029 A	20170802	KR20177020397	20130627
TW201631941 A	20160901	TW20160105918	20130805
TWI623222 B	20180501	TW20160105918	20130805
WO14022776 A1	20140206	WO2013US53428	20130802

Priority:

US20120679627P 20120803 US20120688794 20121129 WO2013US48019 20130627
WO2013US53428 20130802

Probable Assignee: INTEL CORP

Assignee(s): (std): INTEL CORP

Inventor(s): (std): ALEXEI DAVYDOV ; DAVYDOV ALEXEI ; FONG MO HAN ; FWU JONG KAE ; HAN SEUNG HEE ; ETEMAD KAMRAN ; HEO YOUN HYOONG ; HAN SEUNGHEE ; HE HONG ; SEUNGHEE HAN ; JONG KAE FWU ; KAMRAN ETEMAD

Agent(s): GODDAR HEINZ J; PERDOK MONIQUE M 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 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

Title: USER EQUIPMENT, EVOLVED NODE B, AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS

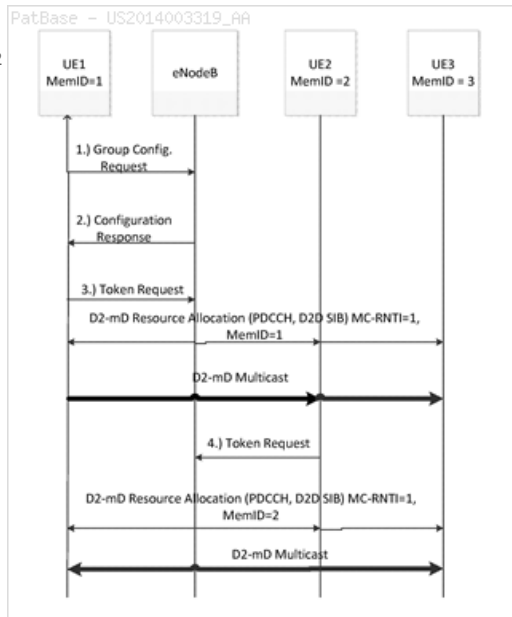
Abstract: Apparatuses and methods for supporting multicast device-to-device communications are described herein. A user equipment (**UE**) may transmit a request to a serving evolved Node B (eNodeB) for permission to transmit to a group of peer UEs. The **UE** may receive a resource assignment in response to the request. The resource allocation assignment may specify a group identifier. The group identifier may identify a group including the **UE** and the group of peer UEs. The **UE** may transmit a multicast transmission to the group of peer UEs using a resource assigned by the eNodeB with the resource assignment.

Classifications:

International (IPC 8-9): H04L1/00 H04L1/16 H04L1/18 H04L5/00 H04L5/14 H04W24/10 H04W28/08 H04W36/22 H04W4/00 H04W48/12 H04W52/02 H04W68/00 H04W72/00 H04W72/04 (Advanced/Invention); H04W88/08 (Advanced/Non-invention)

CPC: H04W72/005 H04L1/1861 H04L1/1812 H04L5/0055 H04L5/0073 H04L5/14 H04W24/10 H04W28/08 H04W36/22 H04W48/12 H04W52/0206 H04W52/0209 H04W52/0212 H04W52/0245 H04W68/00 H04W72/0413 H04W72/042 H04W72/0446 H04W72/046 H04W88/08 H04W92/02 Y02E40/62 H04L1/0025 H04L1/1628 H04L1/1854 H04L1/1887 H04L1/0026 H04L5/0048 H04L5/0053 H04W4/70 H04W28/0205 H04W52/383 Y02D70/00 Y02D70/1222 Y02D70/1224 Y02D70/1242 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/21 Y02D70/22 Y02D70/23 Y02D70/24 Y02D70/25

US: 370/312



Family:

Publication number	Publication date	Application number	Application date
US2014003319 AA	20140102	US20120716919	20121217
US9544099 BB	20170110	US20120716919	20121217

Priority:

US20120667325P 20120702 US20120716919 20121217

Probable Assignee: INTEL CORP

Assignee(s): (std): ETEMAD KAMRAN ; INTEL CORP

Inventor(s): (std): ETEMAD KAMRAN

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

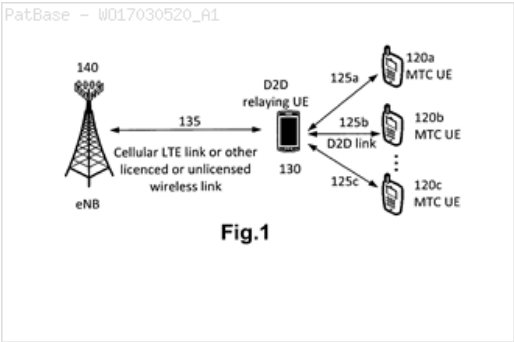
Title: MACHINE TYPE COMMUNICATION RELAYING

Abstract: An electronic device for use in a machine type communication (MTC) relay device includes circuitry having: a receive signal path to receive data from at least one MTC device; and a transmit signal path to forward processed data, based on the data, to an evolved NodeB (eNB), wherein at least one of: (a) the data is received via Device-to-Device (**D2D**) sidelink; (b) the MTC relay device is a relay node and the data is received via a relaying link; or (c) the MTC relay device is a multi-radio access technology (multi-RAT) capable small cell device and the data is received via WiFi, Bluetooth, Long-Term Evolution-Unlicensed (**LTE**-Unlicensed), or mmWave communication.

Classifications:

International (IPC 8-9): H04W4/00 H04W88/04 (Advanced/Invention)

CPC: H04W4/70 H04W88/04



Family:

Publication number	Publication date	Application number	Application date
DE112015006819 T5	20180503	DE201511006819T	20151223
WO17030520 A1	20170223	WO2015US00451	20151223

Priority:

US20150207759P 20150820 WO2015US00451 20151223

Probable Assignee: INTEL CORP

Assignee(s): (std): INTEL CORP ; INTEL IP CORP

Inventor(s): (std): CHATTERJEE DEBDEEP ; FWU JONG KAE ; KHORYAEV ALEXEY ; XIONG GANG

Agent(s): MAKI NATHAN 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 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

Title: USER EQUIPMENT, EVOLVED NODE B, AND METHOD FOR MULTICAST DEVICE-TO-DEVICE COMMUNICATIONS

Abstract: Apparatuses and methods for supporting multicast device-to-device communications are described herein. A user equipment (**UE**) may transmit a request to a serving evolved Node B (eNodeB) for permission to transmit to a group of peer UEs. The **UE** may receive a resource assignment in response to the request. The resource allocation assignment may specify a group identifier. The group identifier may identify a group including the **UE** and the group of peer UEs. The **UE** may transmit a multicast transmission to the group of peer UEs using a resource assigned by the eNodeB with the resource assignment.

Classifications:

International (IPC 8-9): H04W4/08 H04W72/04

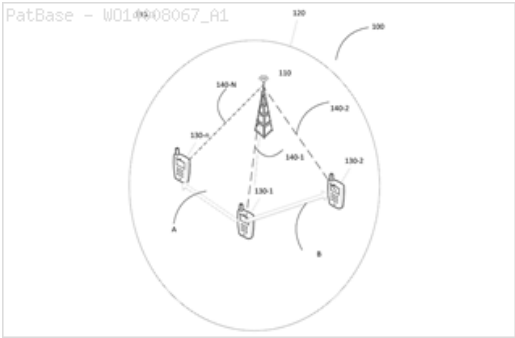
H04W92/18 (Advanced/Invention)

CPC: H04L1/1861 H04L1/1812 H04L5/0055 H04L5/0073 H04L5/14
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H04W52/0209 H04W52/0212 H04W52/0245 H04W68/00 H04W72/005
H04W72/0413 H04W72/042 H04W72/0446 H04W72/046 H04W88/08
H04W92/02 Y02E40/62 H04L1/0025 H04L1/1628 H04L1/1854
H04L1/1887 H04L1/0026 H04L5/0048 H04L5/0053 H04W4/70
H04W28/0205 H04W52/383 Y02D70/00 Y02D70/1222 Y02D70/1224
Y02D70/1242 Y02D70/1262 Y02D70/1264 Y02D70/142 Y02D70/144
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JP F-Term: 5K067 5K067/AA21 5K067/BB04 5K067/CC01

5K067/DD15 5K067/EE02 5K067/EE10 5K067/EE22 5K067/EE25

JP F-Index: H04W4/08 H04W72/04/133 H04W92/18



Family:

Publication number	Publication date	Application number	Application date
CN104737562 A	20150624	CN201380029111	20130626
EP2868124 A1	20150506	EP20130813237	20130626
EP2868124 A4	20160406	EP20130813237	20130626
JP2015518361 T2	20150625	JP20150515294T	20130626
JP5925960 B2	20160525	JP20150515294T	20130626
WO14008067 A1	20140109	WO2013US47940	20130626

Priority:

US20120667325P 20120702 US20120716919 20121217 WO2013US47940 20130626

Probable Assignee: INTEL CORP

Assignee(s): (std): ETEMAD KAMRAN ; INTEL CORP

Inventor(s): (std): ETEMAD KAMRAN

Agent(s): GODDAR HEINZ J; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; MADDEN ROBERT B 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 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

Title: METHOD AND APPARATUS FOR REPORTING BUFFER STATUS FOR DEVICE TO DEVICE COMMUNICATION IN A WIRELESS COMMUNICATION SYSTEM

Abstract: Methods and apparatuses for improving device to device (D2D) communication are disclosed herein. One method includes a user equipment (UE) triggering a buffer status report (BSR) upon configuration or setup of radio resource allocation mode 1 for D2D communication while the UE has data available for transmission for D2D communication. The method further includes the UE transmitting a Medium Access Control (MAC) Control Element corresponding to the BSR.

Classifications:

International (IPC 8-9): H04B7/26 H04L12/26 H04W24/10 H04W28/02 H04W28/14 H04W72/04 H04W72/12 H04W74/08 H04W76/02 H04W76/04 H04W8/22 H04W92/18 (Advanced/Invention)

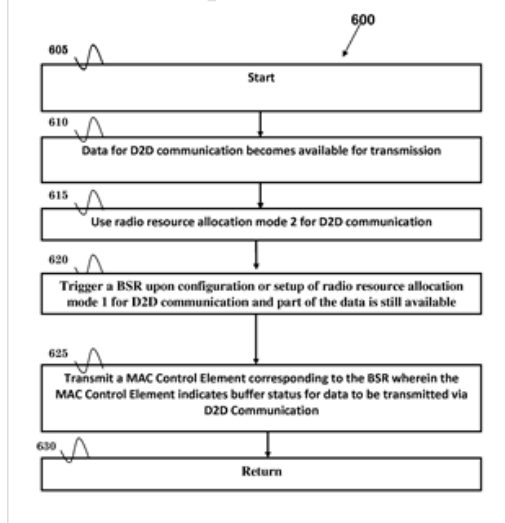
CPC: H04B7/2612 H04W76/046 H04W28/0278 H04W76/14 H04W76/23 H04W72/1284

US: 370/230

JP F-Term: 5K042 5K067 5K067/AA21 5K067/BB21 5K067/DD23 5K067/EE02 5K067/EE10 5K067/EE25 5K067/GG01

JP F-Index: H04B17/24 H04W24/10 H04W72/04 H04W74/08 H04W8/22 H04W92/18

PatBase - US10004086_BB



Family:

Publication number	Publication date	Application number	Application date
CN104980971 A	20151014	CN201510168955	20150410
DE602015000901 D1	20170119	DE201560000901T	20150410
EP2931001 A1	20151014	EP20150163105	20150410
EP2931001 B1	20161207	EP20150163105	20150410
IN01441MU2015 A	20160527	IN2015MU01441	20150407
JP2015204625 A2	20151116	JP20150079644	20150409
JP6059760 B2	20170111	JP20150079644	20150409
KR101709771 B1	20170223	KR20150049443	20150408
KR20150117612 A	20151020	KR20150049443	20150408
US10004086 BB	20180619	US20150664268	20150320
US2015296407 AA	20151015	US20150664268	20150320

Priority:

US20140977823P 20140410 US20150664268 20150320 KR20150049443 20150408
JP20150079644 20150409 EP20150163105 20150410

Probable Assignee: INNOVATIVE SONIC CORP

Assignee(s): (std): INNOVATIVE SONIC CORP

Assignee(s): INNOVATIVE SONIC CORPORATION

Inventor(s): (std): GUO YU HSUAN ; KUO YU HSUAN

Inventor(s): YU HSUAN GUO

Agent(s): HOEFER AND PARTNER PATENTANWALTE MB; OHNUKI SHINSUKE; ITOH TADAHICO; ITOH TADASHIGE; BLUE CAPITAL LAW FIRM PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR