



New connection on: : 13-11-2020 : 01:30:14 - Last disconnection on: : 13-11-2020 : 01:30:09

V 4.0.0.44803(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#{D201820}) (RPM D201820)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 12] (LTE 1w signaling) and PDSCH

Results in EPODOC 7

[SS 13] ..li



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- PN - [CN104429141](#) A 20150318
- PNFP - CN104429141B B 20181109
- PR - WO2013US53420
20130802; US201261679627P
20120803; US201361748706P
20130103
- AP - [CN20138036912](#) 20130802
- DT - I
- CT - // STSE (A)
[CN101505212](#) A 20090812 [Y]
(ALCATEL SHANGHAI BELL CO LTD
[CN])
[Y] 3,4,23,24
* 说明书第3页 *;
[CN102334370](#) A 20120125 [YX]
(NOKIA CORP)
[Y] 3,4,23,24
* 说明书第25-47段, 权利要求1 *
[X] 1-2,7-13,21-22;
[US2012093098](#) A1 20120419 [A]
(CHARBIT GILLES [GB], et al)
[A] 1-13,21-25
* 全文 *
- CCI - [H04L1/1854](#) ; [H04L1/1887](#) ;
[H04W72/044](#) ; [H04W76/14](#)
- CI - H04L1/1854 (EP, CN, US)
- H04L1/1861 (US)
- H04L1/1887 (EP, CN, US)
- H04W72/0413 (US)

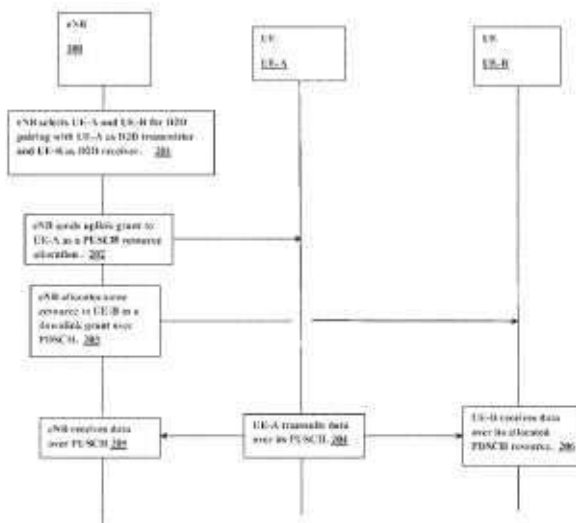


Fig. 2

	- H04W72/042 (US)
	- H04W72/044 (EP, CN, US)
	- H04W76/14 (EP, CN, US)
CA	- Y02D30/70 (US)
PA	- (A) INTEL CORP
TI	- (A) Signaling and channel designs for D2D communications
AB	- (A) Described are methods and devices for enabling D2D communications with signal structures that require minimal changes to the current LTE architecture. In the embodiments described, the eNB grants resources to UEs for D2D communication and either initiates or permits a pair of UEs to establish a D2D link. Certain embodiments are designed to minimize changes to the current LTE control signaling structure by having the control signaling always come from the eNB as in a normal cellular link so that the transmitting UE transmits over a data channel (e. g., PUSCH/ PDSCH) that the receiving UE is able to decode.

PN - [US2015049732](#) A1 20150219

PNFP - US9451604 B2 20160920

PR - US201314125973
20130802; US201261679627P
20120803; US201361748706P
20130103; WO2013US53420
20130802

AP - [US201314125973](#) 20130802

DT - **

CT - *// R141 (A1)*
[US2011029834](#) A1 20110203 []
(YANG TAO [CN], et al);
[US2012093098](#) A1 20120419 []
(CHARBIT GILLES [GB], et al);
[US2012134344](#) A1 20120531 [] (YU
LING [FI], et al);
[US2012147815](#) A1 20120614 []
(MEYER MICHAEL [DE], et al);
[US2013223356](#) A1 20130829 []
(KHOSHNEVIS AHMAD [US], et al)
- *// STSE (B2)*
[US2011029834](#) A1 20110203 []
(YANG TAO [CN], et al);
[US2012093098](#) A1 20120419 []
(CHARBIT GILLES [GB], et al);
[US2012134344](#) A1 20120531 [] (YU
LING [FI], et al);
[US2012147815](#) A1 20120614 []
(MEYER MICHAEL [DE], et al);
[US2013223356](#) A1 20130829 []
(KHOSHNEVIS AHMAD [US], et al)

CCI - [H04L1/1854](#) ; [H04L1/1887](#) ;
[H04W72/044](#) ; [H04W76/14](#)

CI - H04L1/1854 (EP, CN, US)
- H04L1/1861 (US)
- H04L1/1887 (EP, CN, US)
- H04W72/0413 (US)
- H04W72/042 (US)
- H04W72/044 (EP, CN, US)
- H04W76/14 (EP, CN, US)

CA - Y02D30/70 (US)

PA - (A1)
XUE FENG [US]; LI QINGHUA [US];
NIU HUANG [US]; FWU JONG-
KAE [US]
- (B2)
INTEL CORP [US]

TI - (A1)
SIGNALING AND CHANNEL

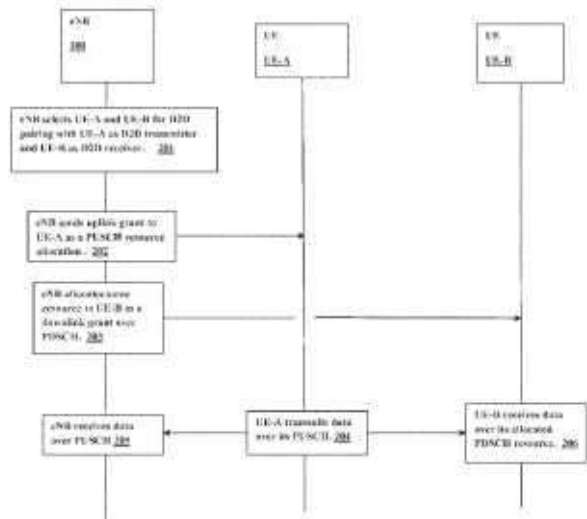


Fig. 2

DESIGNS FOR D2D COMMUNICATIONS

- (B2)
Signaling and channel designs for D2D communications
- (A1 B2)
Described are methods and devices for enabling D2D communications with signal structures that require minimal changes to the current LTE architecture. In the embodiments described, the eNB grants resources to UEs for D2D communication and either initiates or permits a pair of UEs to establish a D2D link. Certain embodiments are designed to minimize changes to the current **LTE control signaling** structure by having the control signaling always come from the eNB as in a normal cellular link so that the transmitting UE transmits over a data channel (e.g., PUSCH/PDSCH) that the receiving UE is able to decode.

AB

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- PN - [WO2014022769](#) A1 20140206
- PR - US201261679627P
20120803; US201361748706P
20130103
- AP - [WO2013US53420](#) 20130802
- DT - *; Rep
- CT - [KR] ISR (A1)
[KR20120074255](#) A 20120705 [A]
(KOREA ELECTRONICS TELECOMM [KR]);
[KR20120074251](#) A 20120705 [A]
(KOREA ELECTRONICS TELECOMM [KR]);
[KR20110086758](#) A 20110729 [A]
(QUALCOMM INC [US]);
[US2007129076](#) A1 20070607 [A]
(CHO SUNG R [KR], et al);
[WO2012091420](#) A2 20120705 [A]
(KOREA ELECTRONICS TELECOMM [KR], et al)
- CCI - [H04L1/1854](#) ; [H04L1/1887](#) ;

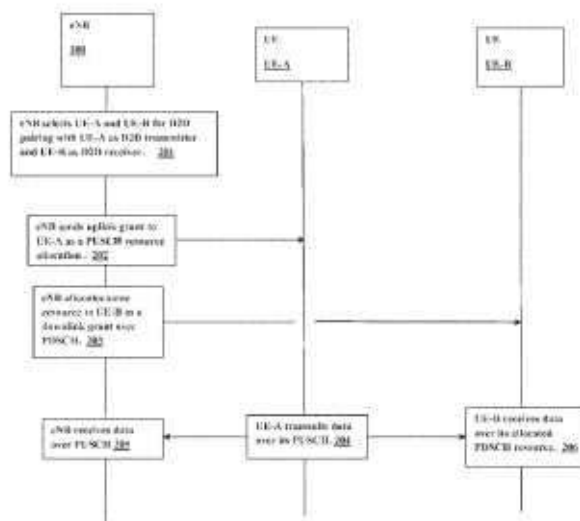


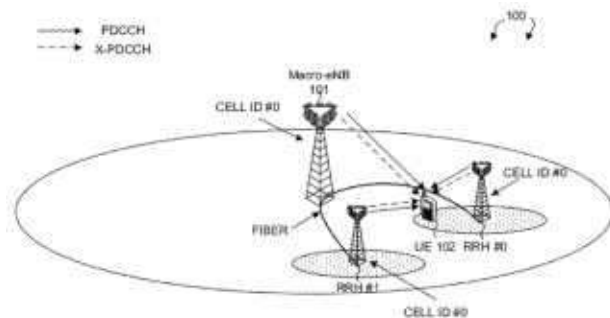
Fig. 2

H04W72/044 ; H04W76/14

- CI - H04L1/1854 (EP, CN, US)
 - H04L1/1861 (US)
 - H04L1/1887 (EP, CN, US)
 - H04W72/0413 (US)
 - H04W72/042 (US)
 - H04W72/044 (EP, CN, US)
 - H04W76/14 (EP, CN, US)
- CA - Y02D30/70 (US)
- PA - INTEL CORP [US]
- TI - SIGNALING AND CHANNEL
 DESIGNS FOR D2D
 COMMUNICATIONS
- AB - Described are methods and devices for enabling D2D communications with signal structures that require minimal changes to the current LTE architecture. In the embodiments described, the eNB grants resources to UEs for D2D communication and either initiates or permits a pair of UEs to establish a D2D link. Certain embodiments are designed to minimize changes to the current **LTE** control **signaling** structure by having the control signaling always come from the eNB as in a normal cellular link so that the transmitting UE transmits over a data channel (e. g., PUSCH/**PDSCH**) that the receiving UE is able to decode.

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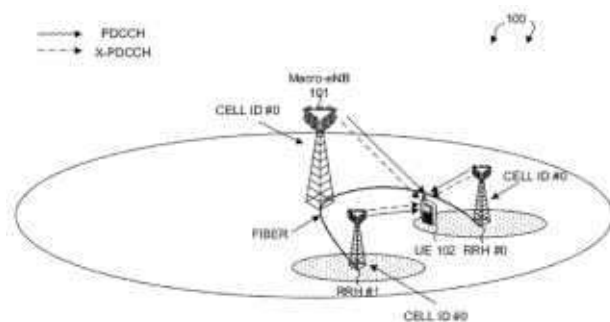
- PN - TW201246865 A 20121116
- PNFP - TWI454108B B 20140921
- PR - US20116148282P
 20110505; US201213463113
 20120503
- AP - TW20120115921 20120504
- DT - I
- CCI - H04L5/0051 ; H04L5/0094 ;
H04W72/042
- CCA - H04W28/06
- CI - H04L5/0051 (EP)
 - H04L5/0094 (EP)



	- H04W72/042 (EP, US)
CA	- H04W28/06 (EP, US)
PA	- (A B) MEDIATEK INC [TW]
TI	- (A) Signaling methods for UE-specific downlink control channel
	- (B) Signaling methods for ue-specific downlink control channel
AB	- (A) Signaling methods for UE-specific downlink control channels in OFDMA systems are provided. In a first method, a dynamic downlink signaling in cell-specific radio resources is used to signal UE-specific downlink control channel in UE-specific radio resources. In LTE, a specific DCI format in PDCCH is used to dynamically signal the UE-specific downlink control channel X-PDCCH that resides in legacy PDSCH region. In a second method, a semi-static higher-layer signaling is used to signal UE-specific downlink control channel in UE-specific radio resources. In LTE , RRC signaling is used to semi-statically signal the UE-specific downlink control channel X-PDCCH that resides in legacy PDSCH region. By using UE-specific downlink control channels, significant control overhead reduction can be achieved.

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PN	- CN102893684 A 20130123
PNFP	- CN102893684B B 20160907
PR	- WO2012CN75080 20120504; US201161482822P 20110505; US201213463113 20120503
AP	- CN20128000735 20120504
DT	- I
CT	- // STSE (A)



	US2010165847 A1 20100701 [Y] (KAMUF MATTHIAS [SE], et al) [Y] 4,9-21 * 说明书第45-46,56段, 图11, 图12 *; EP2302830 A2 20110330 [Y] (SAMSUNG ELECTRONICS CO LTD [KR]) [Y] 9-21 * 说明书第64、67、69、72、108段 *; WO2010053984 A2 20100514 [YX] (NORTEL NETWORKS LTD [CA], et al) [Y] 4,10,12,14-21 * 说明书第5、8、11-12、24-41段 * [X] 1-3,5-8; WO2010053984 A2 20100514 [Y] (NORTEL NETWORKS LTD [CA], et al) [Y] 1-3,5-8 * 说明书第5、8、11-12、24-41段 *; CN101605375 A 20091216 [A] (DATANG MOBILE COMM EQUIP CO [CN]) [A] 1-21 * 全文 *
CTNP	- // STSE (A) [A] - Huawei, HiSilicon, "3GPP TSG RAN WG1 meeting #65, R1-111253, Investigation on downlink control channel and signaling enhancements", 《3GPP TSG RAN WG1 meeting #65》, (20110503) [A] 1—21 * 全文 * [A] - Ericsson, ST Ericsson, "3GPP TSG-RAN WG1 #65, R1-111332, Enhancements for UE specific control signaling", 《3GPP TSG-RAN WG1 #65》, (20110503) [A] 1-21 * 全文 *
CCI	- H04L5/0051 ; H04L5/0094 ; H04W72/042
CCA	- H04W28/06
CI	- H04L5/0051 (EP) - H04L5/0094 (EP) - H04W72/042 (EP, US)
CA	- H04W28/06 (EP, US)

PA - (A)
MEDIATEK INC

TI - (A)
Signaling methods for ue-specific dynamic downlink scheduler in ofdma systems

AB - (A)
Signaling methods for UE-specific downlink control channels in OFDMA systems are provided. In a first method, a dynamic downlink signaling in cell-specific radio resources is used to signal UE-specific downlink control channel in UE-specific radio resources. In LTE, a specific DCI format in PDCCH is used to dynamically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. In a second method, a semi-static higher-layer signaling is used to signal UE-specific downlink control channel in UE-specific radio resources. In **LTE**, RRC **signaling** is used to semi-statically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. By using UE-specific downlink control channels, significant control overhead reduction can be achieved.

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PN - [WO2012149908](#) A1 20121108

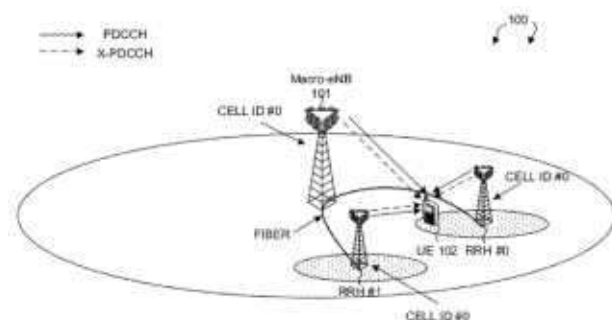
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20110505; US201213463113
20120503

AP - [WO2012CN75080](#) 20120504

DT - **

CT - /CN/ ISR (A1)
[CN101909305](#) A 20101208 [A]
(DATANG MOBILE COMM EQUIP CO);
[CN101938748](#) A 20110105 [A]
(HUAWEI TECH CO LTD);
[US2008076438](#) A1 20080327 [A]
(CHANG KYUNG H [KR], et al)

CCI - [H04L5/0051](#) ; [H04L5/0094](#) ;



[H04W72/042](#)

- CCA - [H04W28/06](#)
- CI - H04L5/0051 (EP)
 - H04L5/0094 (EP)
 - H04W72/042 (EP, US)
- CA - H04W28/06 (EP, US)
- PA - MEDIATEK INC [CN]; LIAO PEI-KAI [CN] ; LIN CHIH-YUAN [CN]; CHEN YIH-SHEN [CN]
- TI - SIGNALING METHODS FOR UE-SPECIFIC DYNAMIC DOWNLINK SCHEDULER IN OFDMA SYSTEMS
- AB - Signaling methods for UE-specific downlink control channels in OFDMA systems are provided. In a first method, a dynamic downlink signaling in cell-specific radio resources is used to signal UE-specific downlink control channel in UE-specific radio resources. In LTE, a specific DCI format in PDCCH is used to dynamically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. In a second method, a semi-static higher-layer signaling is used to signal UE-specific downlink control channel in UE-specific radio resources. In **LTE**, RRC **signaling** is used to semi-statically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. By using UE-specific downlink control channels, significant control overhead reduction can be achieved.

PN - [US2012281646](#) A1 20121108

PNFP - US8873489 B2 20141028

PR - US201213463113
20120503; US201161482822P
20110505

AP - [US201213463113](#) 20120503

DT - *: Rep

CT - || R141 (A1)
[US2012113827](#) A1 20120510 []
(YAMADA SHOHEI [US], et al);
[US2011075624](#) A1 20110331 []
(PAPASAKELLARIOU ARIS [US], et al) ;
[US2012106465](#) A1 20120503 []
(HAGHIGHAT AFSHIN [CA], et al)
- || STSE (B2)
[US2011075624](#) A1 20110331 []
(PAPASAKELLARIOU ARIS [US], et al) ;
[US2012106465](#) A1 20120503 []
(HAGHIGHAT AFSHIN [CA], et al);
[US2012113827](#) A1 20120510 []
(YAMADA SHOHEI [US], et al);
[US2012281646](#) A1 20121108 []
(LIAO PEI-KAI [TW], et al)

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[H04W72/042](#)

CCA - [H04W28/06](#)

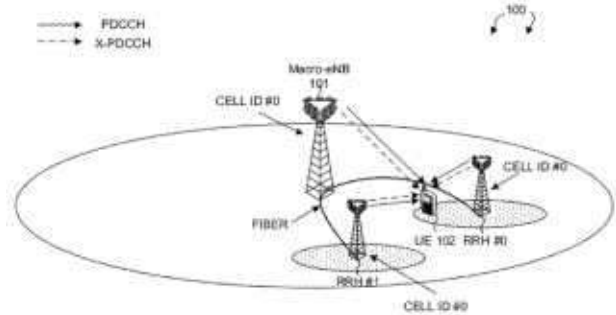
CI - H04L5/0051 (EP)
- H04L5/0094 (EP)
- H04W72/042 (EP, US)

CA - H04W28/06 (EP, US)

PA - (A1 B2)
LIAO PEI-KAI [TW]; LIN CHIH-YUAN
[TW]; CHEN YIH-SHEN [TW];
MEDIATEK INC [TW]

TI - (A1)
Signaling Methods for UE-
Specific Dynamic Downlink
Scheduler in OFDMA Systems
- (B2)
Signaling methods for UE-
specific dynamic downlink
scheduler in OFDMA systems

AB - (A1 B2)
Signaling methods for UE-
specific downlink control
channels in OFDMA systems are
provided. In a first method, a
dynamic downlink signaling in
cell-specific radio resources is



used to signal UE-specific downlink control channel in UE-specific radio resources. In LTE, a specific DCI format in PDCCH is used to dynamically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. In a second method, a semi-static higher-layer signaling is used to signal UE-specific downlink control channel in UE-specific radio resources. In **LTE**, RRC **signaling** is used to semi-statically signal the UE-specific downlink control channel X-PDCCH that resides in legacy **PDSCH** region. By using UE-specific downlink control channels, significant control overhead reduction can be achieved.