

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
19 February 2009 (19.02.2009)

PCT

(10) International Publication Number  
WO 2009/022314 A3

(51) International Patent Classification:  
H04W 72/14 (2009.01)

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(21) International Application Number:  
PCT/IB2008/053273

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date: 14 August 2008 (14.08.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
11/891,901 14 August 2007 (14.08.2007) US

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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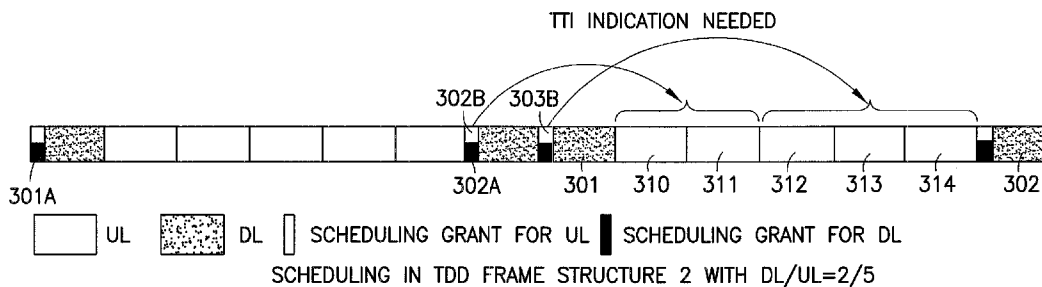
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Published:  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
30 April 2009

(54) Title: UPLINK SCHEDULING GRANT FOR TIME DIVISION DUPLEX WITH ASYMMETRIC UPLINK AND DOWNLINK CONFIGURATION



SCHEDULING IN TDD FRAME STRUCTURE 2 WITH DL/UL=2/5

FIG.3A

(57) Abstract: Signalling uplink and downlink scheduling grants for a plurality of subframes in a time division duplex frame is addressed. In one aspect the allocated uplink subframes are divided into groups, so the number of groups equals the number of downlink subframes being allocated. Uplink grants for the groups are sent with the downlink grants, and for those groups that have more than one uplink subframe, the grant message also indicates which uplink subframes are included in that group. In another aspect there are two sets of grant messages, one for the uplink subframes and one for the downlink subframes. Each of the uplink grant messages is sent on a different uplink grant message, and there is a one-to-one correspondence between the uplink grant channel and the uplink subframe being scheduled by the grant. That correspondence may also be signalled with the grant messages.

WO 2009/022314 A3

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2008/053273

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. H04W72/14

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
H04W

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>MOTOROLA: "Downlink Control Signalling for E-UTRA TDD" 3GPP TSG RAN1 LTE TDD ADHOC; R1-071868, [Online] 17 April 2007 (2007-04-17), XP002515269 Beijing, China Retrieved from the Internet: URL:www.3gpp.org&gt; [retrieved on 2009-02-13] cited in the application page 1, line 1 - line 6 page 2, line 5 - line 28 figures 2-4</p> <p style="text-align: center;">----- -/--</p>	1-30

Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search

16 February 2009

Date of mailing of the international search report

27/02/2009

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2008/053273

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>NOKIA: "ACK/NACK Channel structure in E-UTRA TDD downlink" 3GPP TSG RAN1 LTE TDD ADHOC; R1-071900, [Online] 17 April 2007 (2007-04-17), XP002515270 Retrieved from the Internet: URL:www.3gpp.org&gt; [retrieved on 2009-02-13] part 2. Discussion</p> <p style="text-align: center;">-----</p>	1-30