

(51) International Patent Classification:
H04B 7/26 (2006.01) *H04W 74/06* (2009.01)(21) International Application Number:
PCT/KR2010/003909(22) International Filing Date:
17 June 2010 (17.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/218,070 18 June 2009 (18.06.2009) US(71) Applicant (for all designated States except US): **LG ELECTRONICS INC.** [KR/KR]; 20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721 (KR).

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(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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

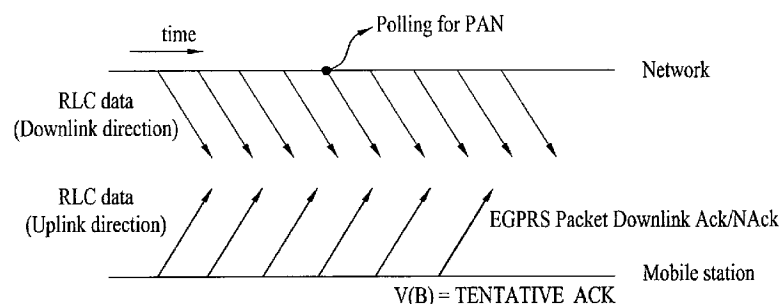
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
21 April 2011

(54) Title: METHOD FOR TRANSMITTING PACKET DOWNLINK ACK/NACK INFORMATION IN A WIRELESS COMMUNICATION SYSTEM AND APPARATUS FOR THE SAME

FIG. 11



(57) Abstract: Various methods and apparatuses for transmitting packet downlink ACK/NACK information in a wireless communication are disclosed. A method of transmitting ACK/NACK information in Fast ACK/NACK reporting (FANR) mode in a wireless communication system is presented. The method comprises receiving a command from the network to operate in FANR mode, determining the ACK/NACK state for a number of uplink data blocks, transmitting an ACK/NACK signal for a downlink data block in an uplink control message, if it was determined that the ACK/NACK state is not an ACK state for at least a predetermined number of uplink data blocks.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2010/003909**A. CLASSIFICATION OF SUBJECT MATTER****H04B 7/26(2006.01)i, H04W 74/06(2009.01)i**

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)

H04B 7/26; H04B 7/212; H04J 3/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: ACK, NACK, FANR, uplink, downlink

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0086685 A1 (AGHILI BEHROUZ et al.) 02 April 2009 See the abstract, paragraphs [0044]-[0050], figure 3	1-23
A	US 2005-0201319 A1 (HYE-YOUNG LEE et al.) 15 September 2005 See the abstract, paragraphs [0010]-[0011], figure 1	1-23

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

24 FEBRUARY 2011 (24.02.2011)

Date of mailing of the international search report

25 FEBRUARY 2011 (25.02.2011)

Name and mailing address of the ISA/KR

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Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2010/003909

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0086685 A1	02.04.2009	None	
US 2005-0201319 A1	15.09.2005	KR 10-2005-0082037 A	22.08.2005