

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 September 2009 (24.09.2009)

(10) International Publication Number
WO 2009/116795 A3

(51) International Patent Classification:
H04W 4/22 (2009.01) H04W 4/12 (2009.01)

431-080 (KR). **CHUN, Sung-Duck** [KR/KR]; 533, Hogye-Dong, Dongan-Gu, Anyang, Gyeonggi-Do 431-080 (KR).

(21) International Application Number:
PCT/KR2009/001356

(74) Agent: **PARK, Jang-Won**; Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu, Seoul 135-010 (KR).

(22) International Filing Date:
18 March 2009 (18.03.2009)

(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, 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.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/037,681 18 March 2008 (18.03.2008) US
61/038,035 19 March 2008 (19.03.2008) US
61/073,748 18 June 2008 (18.06.2008) US
10-2009-0022685 17 March 2009 (17.03.2009) KR

(71) Applicant (for all designated States except US): **LG ELECTRONICS INC.** [KR/KR]; 20, Yeouido-Dong, Yeongdeungpo-Gu, Seoul 150-721 (KR).

(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, MK, 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).

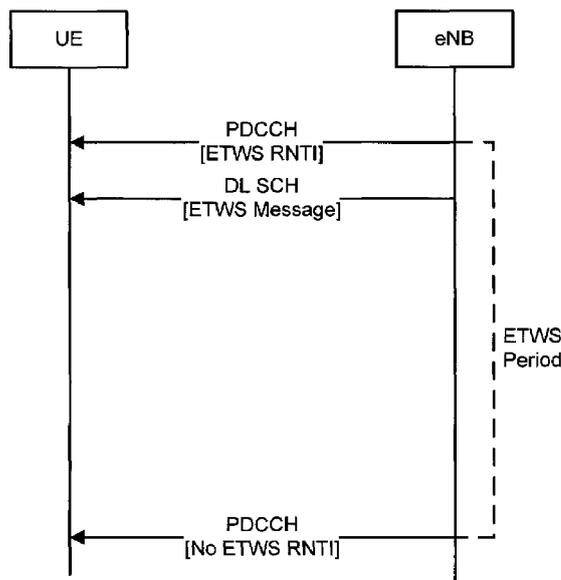
(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEE, Young-Dae** [KR/KR]; 533, Hogye-Dong, Dongan-Gu, Anyang, Gyeonggi-Do 431-080 (KR). **PARK, Sung-Jun** [KR/KR]; 533, Hogye-Dong, Dongan-Gu, Anyang, Gyeonggi-Do 431-080 (KR). **YI, Seung-June** [KR/KR]; 533, Hogye-Dong, Dongan-Gu, Anyang, Gyeonggi-Do

[Continued on next page]

(54) Title: METHOD OF RECEIVING A DISASTER WARNING MESSAGE IN MOBILE COMMUNICATION SYSTEM

[Fig. 6]



(57) Abstract: Disclosed is a method of receiving a warning message in wireless communication system. A terminal (UE) monitors a physical downlink control channel to receive a specific Radio Network Temporary Identifier (RNTI) that indicates an existence of the warning message, and the terminal receives the warning message through a control logical channel that maps with a downlink shared channel if the warning message is existed.



WO 2009/116795 A3



Published:

(88) Date of publication of the international search report:

- *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))*

17 December 2009

A. CLASSIFICATION OF SUBJECT MATTER**H04W 4/22(2009.01)i, H04W 4/12(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)

IPC H04W

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKOMPASS(KIPO internal) : "control channel, warning, disaster, message, UMTS"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | WO 2007-028914 A1 (ALCATEL) 15 Mar. 2007 Abstract, Fig.1 | 1,10 |
| A | US 2003-0193394 A1 (LAMB) 16 Oct. 2003 Abstract, Fig.2 | 1.10 |
| A | WO 2007-045564 A1 (SIEMENS) 26 Apr. 2007 Abstract, Fig.3 | 1,10 |
| E | US 2009-0170467 A1 (NOWLAN et al.) 02 Jul. 2009 Abstract, Figs. 5,6 | 1,10 |
| E | US 2009-227224 A1 (AFTELAK et al.) 10 Sep. 2009 Abstract, Figs. 1,7,8 | 1,10 |

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

28 OCTOBER 2009 (28.10.2009)

Date of mailing of the international search report

28 OCTOBER 2009 (28.10.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu,
Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, Jin Ick

Telephone No. 82-42-481-5770



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2009/001356

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| WO 2007-028914 A1 | 15.03.2007 | CN 101238739 A | 06.08.2008 |
| | | EP 1753251 A1 | 14.02.2007 |
| | | JP 2009-505465 A | 05.02.2009 |
| | | KR 10-2008-0033293 A | 16.04.2008 |
| US 2003-0193394 A1 | 16.10.2003 | AU 1999-62850 A1 | 30.09.1999 |
| | | CA 2376773 A1 | 21.12.2000 |
| | | EP 1192612 A1 | 03.04.2002 |
| | | EP 1192612 B1 | 09.05.2007 |
| | | EP 1746551 A2 | 24.01.2007 |
| | | EP 1746551 A3 | 25.04.2007 |
| | | EP 1746551 B1 | 11.03.2009 |
| | | EP 1746551 B8 | 29.04.2009 |
| | | EP 1192612 A4 | 29.09.2004 |
| | | EP 2065861 A1 | 03.06.2009 |
| | | US 06329904 B1 | 11.12.2001 |
| | | US 06617964 B1 | 09.09.2003 |
| | | US 06867688 B2 | 15.03.2005 |
| | | US 07339467 B2 | 04.03.2008 |
| US 2005-0237183 A1 | 27.10.2005 | | |
| WO 2000-077755 A1 | 21.12.2000 | | |
| WO 2007-045564 A1 | 26.04.2007 | CN 101352066 A | 21.01.2009 |
| | | DE 102005050416 B3 | 19.04.2007 |
| | | EP 1941766 A1 | 09.07.2008 |
| | | JP 2009-513047 A | 26.03.2009 |
| US 2009-0170467 A1 | 02.07.2009 | WO 2009-085876 A1 | 09.07.2009 |
| US 2009-0227224 A1 | 10.09.2009 | WO 2009-111410 A1 | 11.09.2009 |