

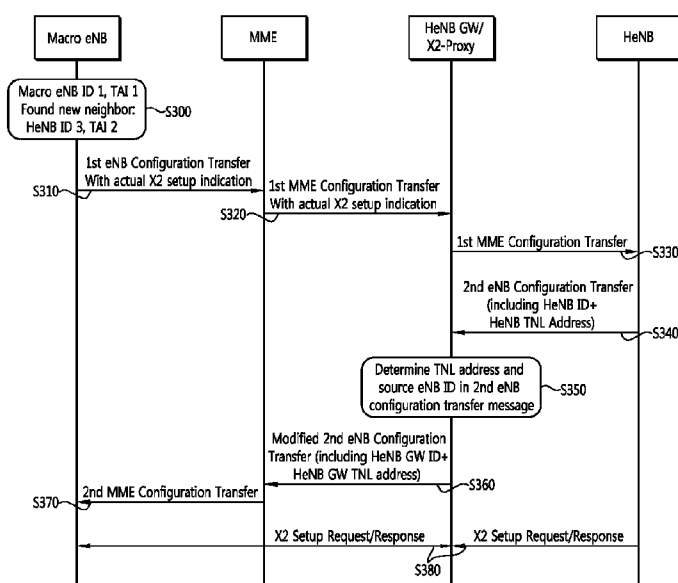


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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, 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, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR INITIATING X2 INTERFACE SETUP IN WIRELESS COMMUNICATION SYSTEM

[Fig. 9]



(57) **Abstract:** A method and apparatus for transmitting a transport network layer (TNL) address in a wireless communication system is provided. A home eNodeB (HeNB)/X2-proxy determines a TNL address and an eNB ID to be transmitted in a configuration transfer message based on an indication whether a direct X2 interface or an indirect X2 interface is to be established between a macro eNB and a HeNB. Or, in case that the direct X2 interface between the macro eNB and the HeNB is not available, the HeNB GW/X2-proxy modifies the TNL address of the HeNB and the eNB ID of the HeNB in the configuration transfer message into a TNL address of the HeNB GW/X2-proxy and an eNB ID of the HeNB GW/X2-proxy.

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A. CLASSIFICATION OF SUBJECT MATTER***H04W 92/20(2009.01)i, H04W 92/12(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)

H04W 92/20; G06F 15/16; H04W 56/00; H04W 36/08

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: HeNB, X2 interface, gateway

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0169412 A1 (GUPTA, RAJARSHI) 01 July 2010 See abstract; paragraphs [0025]-[0037], [0044], [0045], [0048]-[0064]; claims 1-7, 14, 30-36, 43 and figures 1-3.	1-14
A	US 2010-0260168 A1 (GHEORGHIU, VALENTIN A. et al.) 14 October 2010 See abstract; paragraphs [0069]-[0071]; claims 1, 20, 24-27 and figure 8.	1-14
A	CN 102014449 A (CHINA ACADEMY OF TELECOMMUNICATIONS TECHNOLOGY) 13 April 2011 See abstract; paragraphs [0035]-[0050] and figures 3-5.	1-14



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See patent family annex.

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Date of the actual completion of the international search

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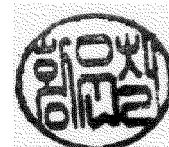
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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