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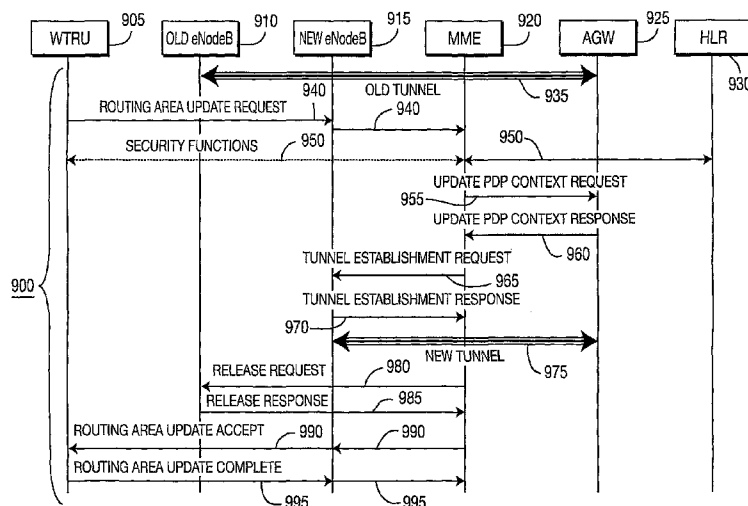
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(54) Title: METHOD AND APPARATUS FOR SUPPORTING ROUTING AREA UPDATE PROCEDURES IN A LONG TERM EVOLUTION GENERAL PACKET RADIO SERVICE TUNNELING PROTOCOL-BASED SYSTEM



(57) Abstract: A method and apparatus for supporting routing area (RA) update in a long term evolution (LTE) general packet radio service (GPRS) tunneling protocol (GTP)-based system are disclosed. A wireless transmit/receive unit (WTRU) sends an RA update request to a new evolved Node-B (eNodeB) and a mobility management entity (MME). The MME sends an update packet data protocol (PDP) context request to an access gateway (AGW), whereby a new tunnel is established between the new eNodeB and the AGW. For an inter-MME routing area update, the WTRU sends an RA update request to a new eNodeB and a new MME. The new MME sends an MME context request to an AGW. The AGW sends an MME context response to the new MME. The new MME sends an update PDP context request to the AGW, whereby a new tunnel is established between the new eNodeB and the AGW.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

H04Q

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	WO 02/03725 A (NOKIA CORP [FI]; HURTTA TUIJA [FI]; RAJANIEMI JAAKKO [FI]; SOININEN JO) 10 January 2002 (2002-01-10) page 1, line 7 - page 2, line 10 page 2, line 24 - page 3, line 15 page 7, line 4 - line 11 page 8, line 23 - line 32 page 9, line 29 - page 10, line 5 page 10, line 18 - line 21 page 12, line 1 - page 15, line 13 figures 2,4 ----- -/--	1-7

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

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Universal Mobile Telecommunications System (UMTS); Feasibility study for transport and control separation in the PS CN domain (3GPP TR 23.873 version 4.0.0 Release 4); ETSI TR 123 873" ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. 3-SA2, no. V400, March 2001 (2001-03), XP014015710 ISSN: 0000-0001 page 54, paragraph 7.1 - page 61, paragraph 7.3.1 page 66, paragraph 7.3.6.1 - page 73, paragraph 7.4.1 figures 35,38-40 -----	1,4,8-10
X	NORTEL ET AL: "GPRS One Tunnel with No 3G Bearer on SGSN" INTERNET CITATION, [Online] 13 February 2006 (2006-02-13), XP002439181 Retrieved from the Internet: URL: http://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_51_Denver/Docs/ [retrieved on 2007-06-25] the whole document -----	1,4
E	WO 2007/102954 A (INTERDIGITAL TECH CORP [US]; SHAHEEN KAMEL M [US]) 13 September 2007 (2007-09-13) paragraphs [0029] - [0033] claims 1-10 figures 5,6 -----	1-10

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Information on patent family members

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