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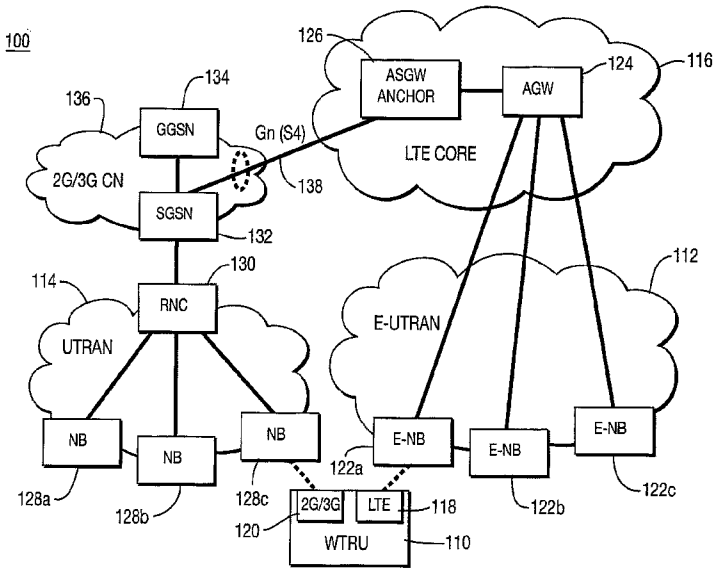
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(54) **Title:** WIRELESS COMMUNICATION METHOD AND SYSTEM FOR PERFORMING HANDOVER BETWEEN TWO RADIO ACCESS TECHNOLOGIES



(57) **Abstract:** The present invention relates to a method and apparatus for performing handover between a universal mobile telecommunication system (UMTS) terrestrial radio access network (UTRAN), and an evolved-UTRAN (E-UTRAN) based system. The wireless communication system includes a UTRAN, an E-UTRAN, a 2G/3G core network, and long term evolution (LTE) core network, and at least one wireless transmit/receive unit (WTRU) including an LTE element and ad 2G/3G element. According to the present invention the WTRU shall be able to handover a call initiated on the UTRAN to the E-UTRAN, and visa versa. The 2G/3G core network and the LTE core network are linked by a Gn interface.

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