

Exhibit 9



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Löhr et al.

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(54) **SEMI-PERSISTENT SCHEDULED RESOURCE RELEASE PROCEDURE IN A MOBILE COMMUNICATION NETWORK**

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(51) **Int. Cl.**
H04W 4/00 (2009.01)

(52) **U.S. Cl.** 370/329; 370/341; 370/252; 370/431

(58) **Field of Classification Search** None
See application file for complete search history.

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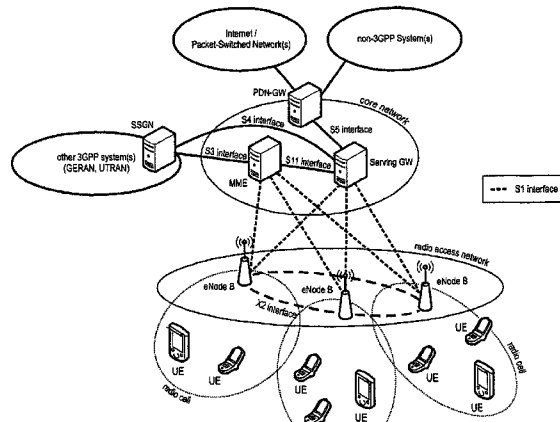
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(57) **ABSTRACT**

The invention relates to a method for deactivating a semi-persistent resource allocation of a user equipment in an LTE-based mobile communication system. Furthermore, the invention also related to a user equipment and a eNode B implementing this method. To provide a mechanism for deactivating a semi-persistent resource allocation in a LTE system which is not requiring any changes to the Physical layer-to-MAC layer interface and/or preferably no changes to the PDCCH formats agreed by the 3GPP a combination of NDI value and MCS index is defined that is commanding the release of SPS resources. Alternatively, another solution proposed to define a special transport block size that when signaled in a PDCCH is commanding the release of SPS resources.

22 Claims, 9 Drawing Sheets



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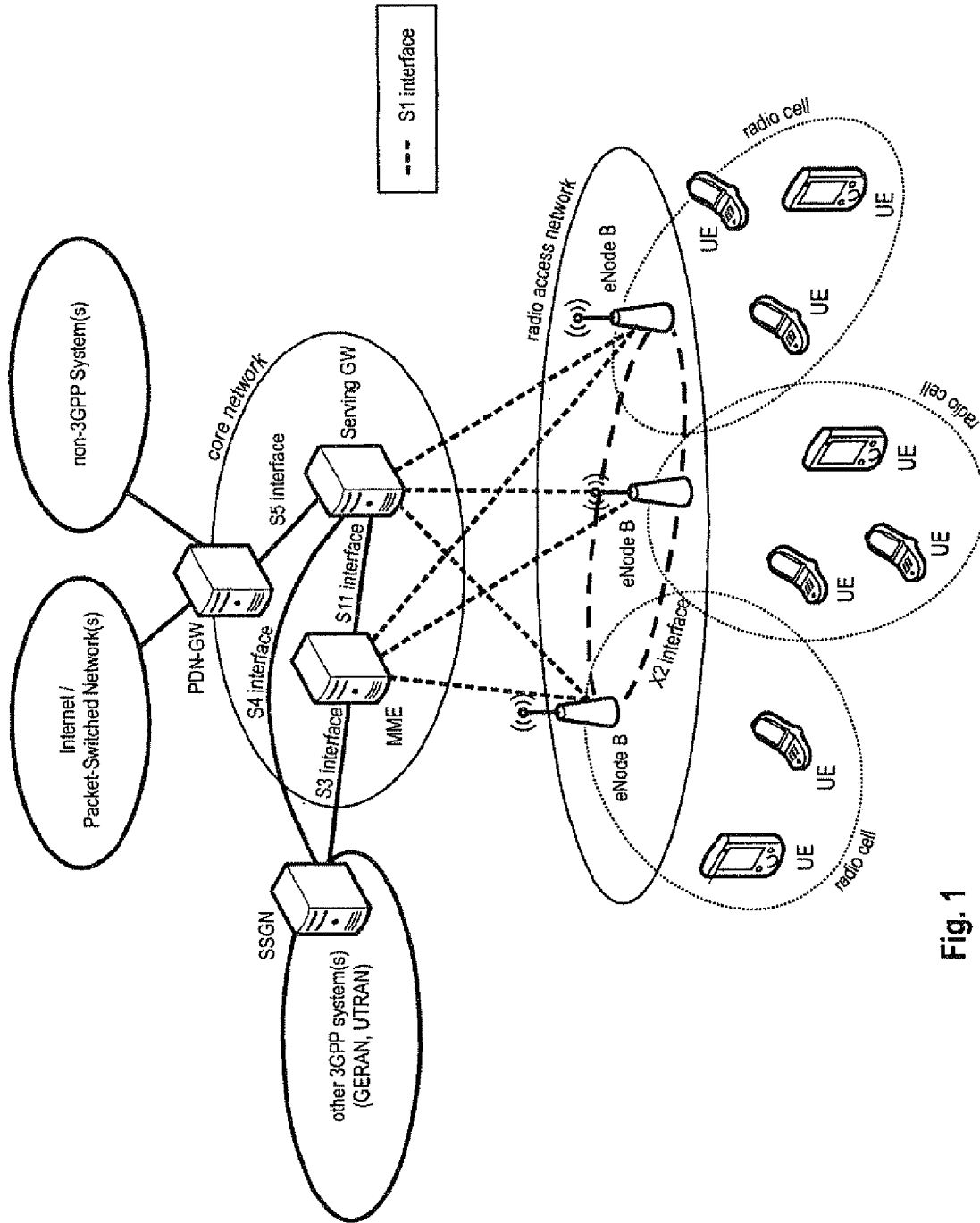


Fig. 1

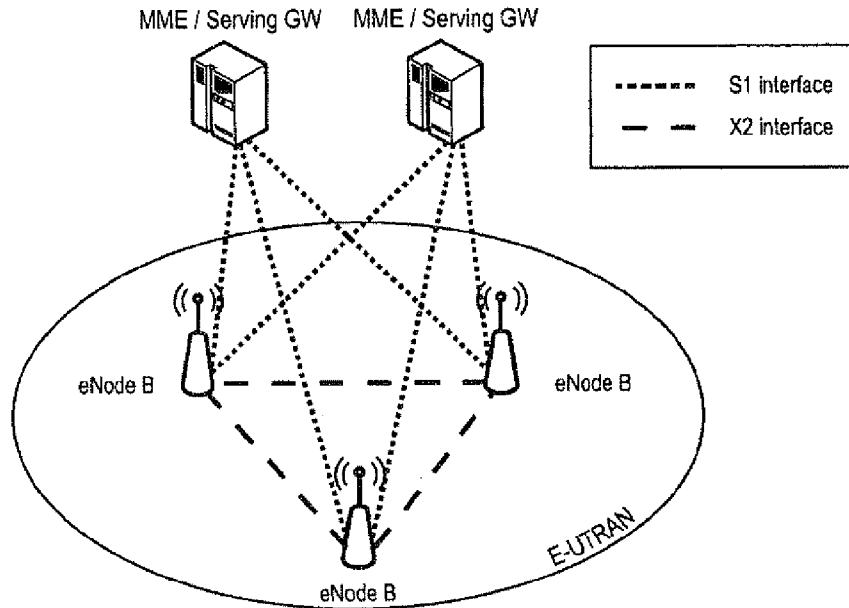


Fig. 2

SPS Interval [ms]	min TBS [bits]	max TBS [bits]	release TBS [bits]
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Fig. 12

SPS Interval [ms]	min TBS [bits]	max TBS [bits]	UL release TBS [bits]
DL release TBS [bits]	UL&DL release TBS [bits]		

Fig. 13

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