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[Continued on next page]

(54) Title: METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM

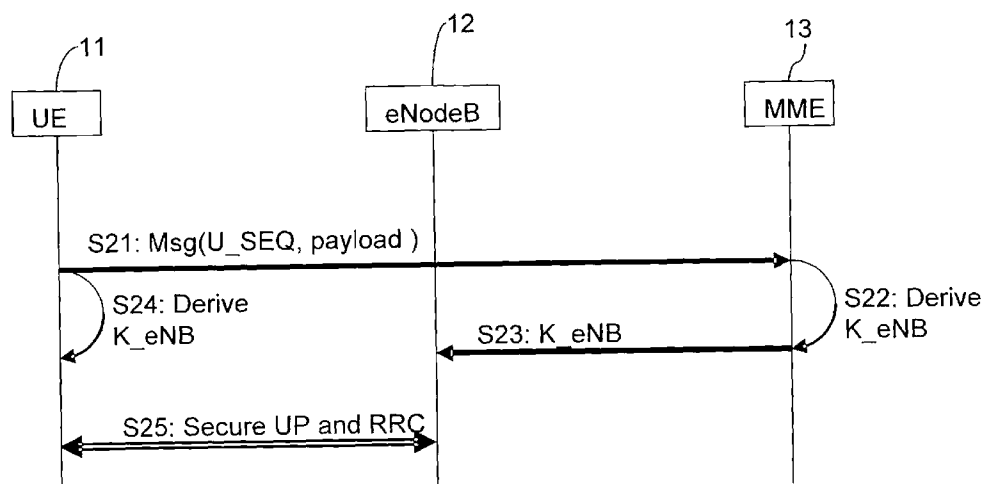


Fig. 2

(57) Abstract: A security key, K_{eNB}, for protecting RRC/UP traffic between a User Equipment, UE, (11) and a serving eNodeB (12) is established by a method and an arrangement in a Mobility Management Entity (13), MME, and in said UE (11), of an Evolved Packet System, EPS. The MME and the UE derives the security key, K_{eNB}, from at least an NAS uplink sequence number, NAS_U_SEQ, sent from the UE to the MME, and from an Access Security Management Entity-key, K_ASME, shared between the MME and the UE.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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