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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

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

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR SENDING AND RECEIVING RANDOM ACCESS RESPONSE IN A WIRELESS COMMUNICATION SYSTEM

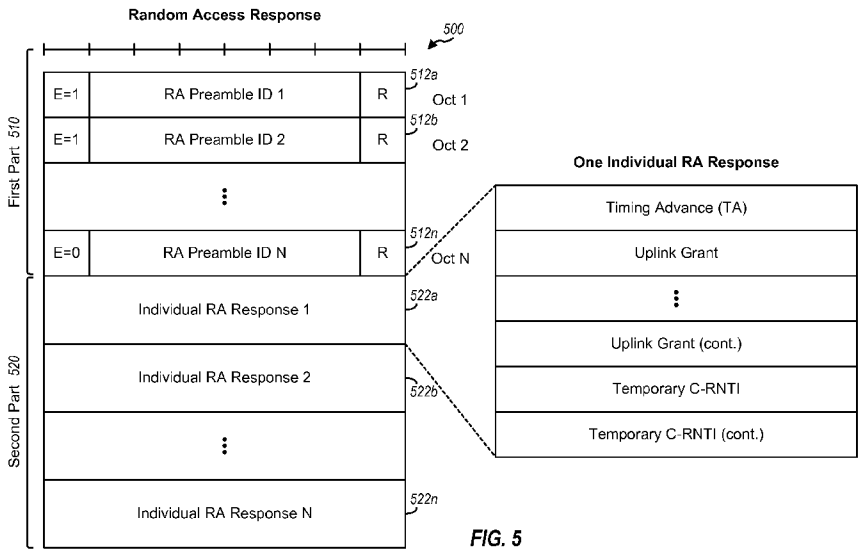


FIG. 5

(57) **Abstract:** Techniques for supporting random access by user equipments (UEs) in a wireless communication system are described. In one design, a UE transmits a random access (RA) preamble for random access. The UE thereafter receives a random access response composed of a first part and a second part. The first part includes a list of N RA preamble IDs for N RA preambles being responded to by the random access response, where $N \geq 1$. The second part includes N individual RA responses for the N RA preambles being responded to. The UE processes the first part to detect for an RA preamble ID of the RA preamble transmitted by the UE. If this RA preamble ID is not detected, then the UE skips the second part. Otherwise, the UE processes the second part to obtain an individual RA response for the transmitted RA preamble.

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