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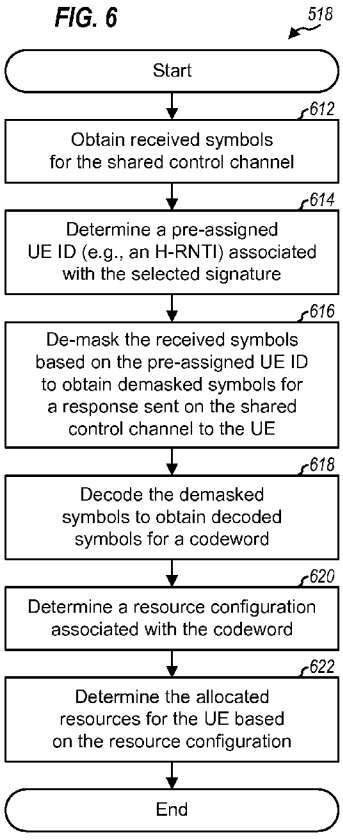
(54) Title: RESOURCE ALLOCATION FOR ENHANCED UPLINK USING A SHARED CONTROL CHANNEL



(57) Abstract: Techniques for supporting operation with enhanced uplink are described. A user equipment (UE) may select a signature from a set of signatures available for random access for enhanced uplink, generate an access preamble based on the selected signature, and send the access preamble for random access while operating in an inactive state. The UE may receive allocated resources (e.g., for an E-DCH) for the UE from a shared control channel (e.g., an HS-SCCH). In one design, the UE may determine a pre-assigned UE identity (ID) associated with the selected signature, de-mask received symbols for the shared control channel based on the pre-assigned UE ID, decode the demasked symbols to obtain a codeword, and determine the allocated resources based on the codeword. The UE may send data to a Node B using the allocated resources while remaining in the inactive state.

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