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(54) Title: METHOD AND APPARATUS FOR RESOURCE MANAGEMENT IN A WIRELESS COMMUNICATION SYSTEM

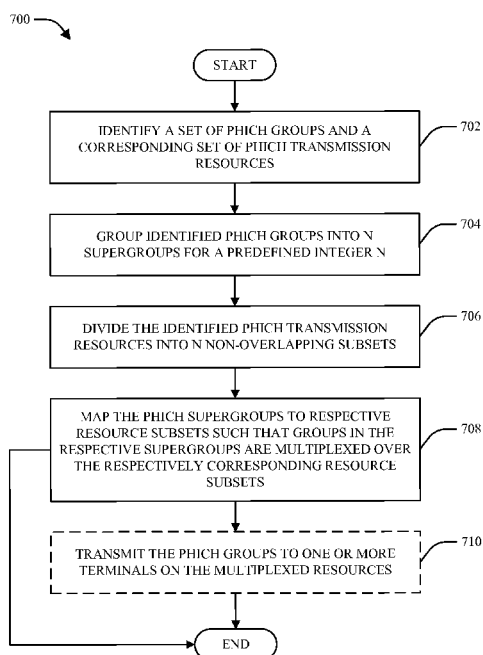


FIG. 7

(57) Abstract: Systems and methodologies are described that facilitate improved resource management in a wireless communication system. As described herein, supergroups can be formed from groups of Physical Hybrid Automatic Repeat Request Channels (PHICHs) such that respective PHICH supergroups are multiplexed onto respective non-overlapping resource element subsets, thereby improving resource usage efficiency for the extended cyclic prefix case and limited numbers of transmit antennas. In one example described herein, even-indexed PHICH groups are mapped to a selected subset of resource elements in a group while odd-indexed PHICH groups are mapped to the remaining resource elements in the group. This mapping can be performed by modifying orthogonal sequences associated with the PHICH groups and/or by performing resource mapping in different manners for respective PHICH supergroups. Upon receiving a transmission of mapped PHICH information, a receiving entity can leverage knowledge of the mapping to decode transmitted PHICH information using the proper resource subset(s).



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