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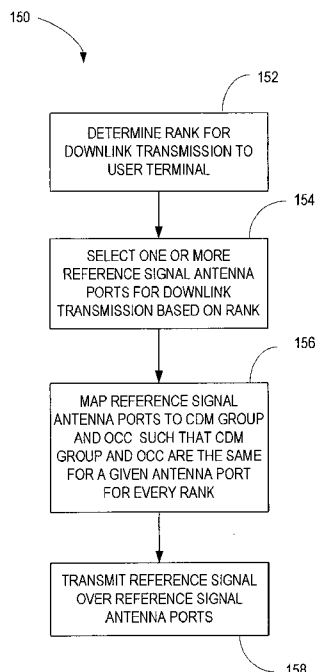


FIG. 6

(57) Abstract: An antenna port mapping method and device for demodulation reference signals. The method includes: determining a transmission rank for a downlink transmission to a user terminal; determining one or more reference signal antenna ports for the downlink transmission based on the transmission rank, wherein each port is defined by an group/code pair comprising a code division multiplexing group and orthogonal cover code; mapping reference signal antenna ports to group/code pairs for each transmission rank such that the code division multiplexing group and code orthogonal cover code are the same for a given antenna port for every transmission rank; and transmitting the downlink reference symbols over the reference signal antenna ports corresponding to the transmission rank.



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