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(54) Title: SYNCHRONIZATION DETECTION USING BANDWIDTH AND ANTENNA CONFIGURATION

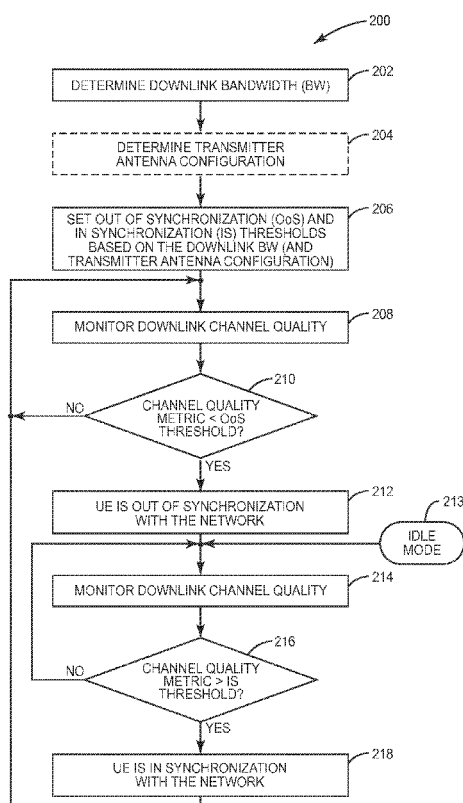


FIG. 2

(57) Abstract: User Equipment in a wireless communication network considers the downlink channel bandwidth in setting out of synchronization (OoS) and in synchronization (IS) thresholds and filter durations. Additionally, the UE may consider transmitter antenna configuration - that is, the number of transmitting antennas in a MIMO system - in setting the OoS and IS thresholds. The UE determines it is OoS when a monitored, filtered, downlink channel quality metric, such as reference symbol SINR, is below the OoS threshold.



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