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- (54) **Title:** ASSOCIATION OF TRANSMISSION CONFIGURATION INDICATOR STATES TO PHYSICAL CELL IDENTITIES

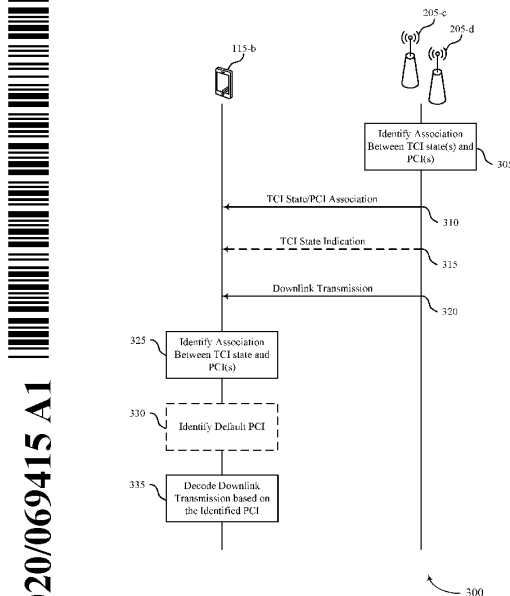


FIG. 3

(57) **Abstract:** A base station may identify an association between a set of physical cell identifiers (PCIs) identifying different transmission reception points (TRPs) and a set of transmission configuration indicator (TCI) states for a user equipment (UE). The base station may transmit a TCI state and PCI association indication to the UE. The UE may receive a downlink transmission using a receive beam associated with a TCI state, and may identify a PCI of the set of PCIs to use to decode the received downlink transmission. In cases where the TCI state used to receive the downlink transmission is associated with multiple PCIs, the UE may select a default PCI from the multiple PCIs, and may decode the received transmission accordingly. In some examples, the UE may receive reference signals from one or more of the serving TRPs and may identify a PCI to use to decode the received reference signals.