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(54) Title: PUCCH CARRYING HARQ-A FOR MULTI-TRP WITH NON-IDEAL BACKHAUL

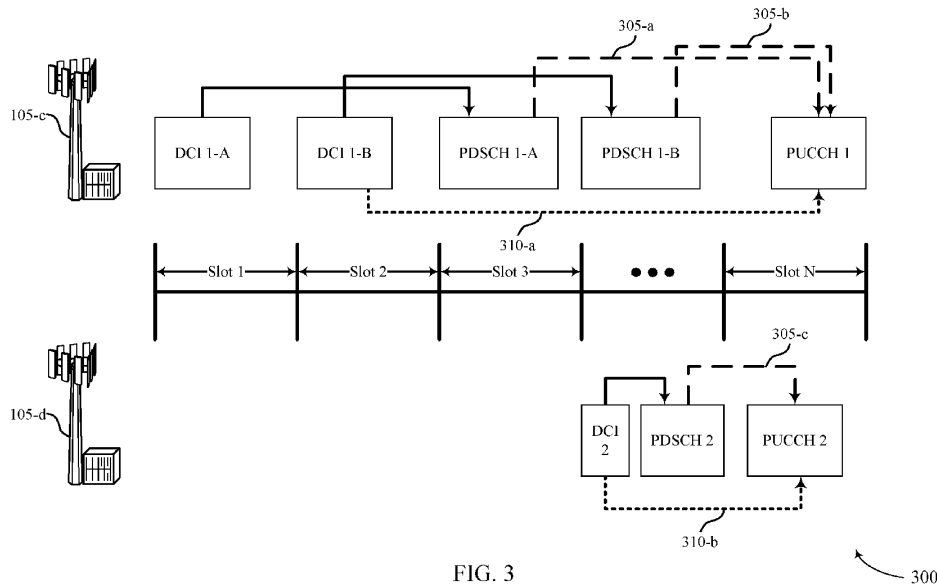


FIG. 3

(57) Abstract: Methods, systems, and devices for wireless communications that support physical uplink control channel (PUCCH) carrying hybrid automatic repeat request (HARQ-A) for multiple transmission reception point (multi-TRP) environments with non-ideal backhaul links are described. A user equipment (UE) may support multiple communication links with TRPs and receive distinct physical downlink control channel (PDCCH) messages that include downlink control information (DCI). The DCI may include a timing or resource indication index values for physical uplink control channel (PUCCH) transmission. Based on the index values, the UE may differentiate the received DCI indications. The UE may then schedule PUCCH transmissions, including hybrid automatic repeat request (HARQ) payloads, directed to the TRPs. In some examples, the scheduling may include mapping the PUCCH transmissions to resources or resource groups in configured PUCCH resource set. The UE may then transmit the PUCCH messages via one or more

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