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(54) Title: RATE-MATCHING AROUND CRS FOR NR-TDD

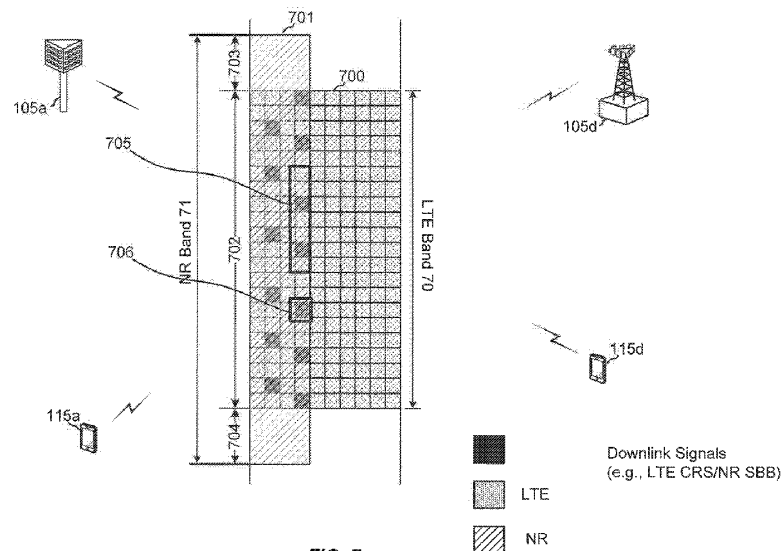


FIG. 7

(57) Abstract: Rate-matching and channel estimation are disclosed for new radio (NR) user equipments (UEs). An NR UE obtains coexistence information of neighboring legacy operations including common reference signal (CRS) ports, CRS frequency pattern, and a legacy subframe type corresponding to the NR transmission segments. The NR UE determines legacy CRS occasion(s) coinciding with shared downlink direction operations for the NR and legacy operations, and rate-matches reception of NR downlink transmissions around the CRS occasion(s). In other aspects, an NR UE detects overlap of a downlink signal with downlink control channel candidate of a configured control resource set (CORESET). The UE ends monitoring of the candidate within a search space of the CORESET in response to the detected overlap, detects a collision between a scheduled demodulation reference signal (DMRS) and the downlink signal occasion, and discards all or part of the CORESET.

[Continued on next page]

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