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(54) Title: DCI DESIGN FOR MULTI-USER SUPERPOSITION TRANSMISSION

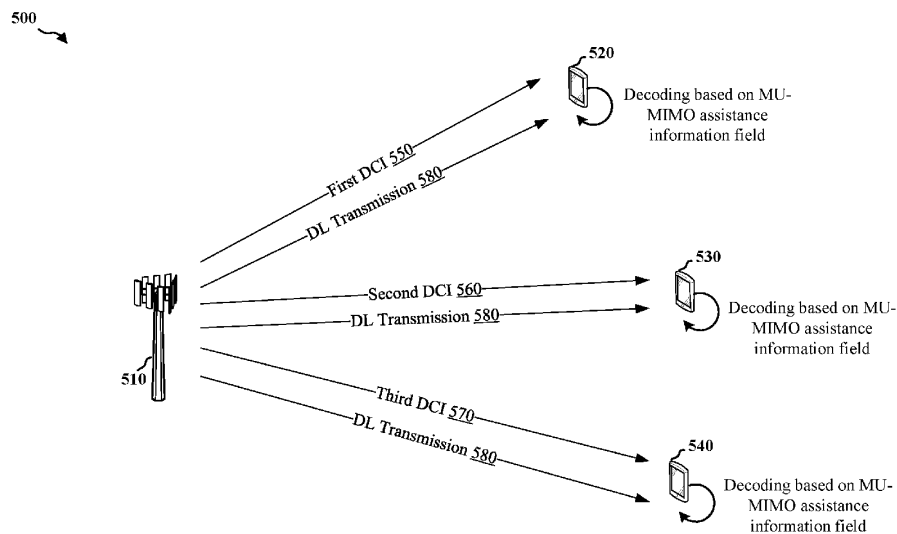


FIG. 5

(57) Abstract: Wireless networks support MU-MIMO transmission in which a base station transmits multiple spatial layers or spatial streams over a shared downlink resource to multiple UEs. However, UEs participating in the MU-MIMO transmission may need to manage interference associated with spatial streams intended for other users. In an aspect of the disclosure, a method, a computer-readable medium, and an apparatus are provided. The apparatus may be configured to provide an MU-MIMO transmission to a plurality of user UEs over a same set of resource blocks. The apparatus may be configured to generate a DCI message for each UE. The DCI message may indicate a DL grant to each UE and include an MU-MIMO assistance information field that provides each UE with interference information to better decode the spatial layers.

[Continued on next page]

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