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(54) **BEAM MANAGEMENT AND FREQUENCY RANGE LIMITATION ACCORDING TO ANTENNA MODULE CAPABILITIES**

(52) **U.S. Cl.**

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(57)

ABSTRACT

Methods, systems, and devices for wireless communications are described. A user equipment (UE) may transmit a capability message that indicates an antenna module configuration, the antenna module configuration indicating an antenna module format of the UE. The UE may perform a beam management procedure according to a beam management mode associated with a frequency range and corresponding to the antenna module format and may receive, based on the beam management procedure, an indication of a set of parameters for communications using the frequency range. The UE may communicate, based on the set of parameters, one or more messages using the frequency range and one or more antenna modules. Additionally, or alternatively, the UE may receive an indication of a resource allocation for a beam weighting procedure, the resource allocation corresponding to the antenna module format of the UE and may perform the beam weighting procedure using the resource allocation.

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