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- (71) **Applicant: QUALCOMM INCORPORATED** [US/US];
ATTN: International IP Administration, 5775 Morehouse
Drive, San Diego, California 92121-1714 (US).
- (72) **Inventors; and**
- (71) **Applicants (for US only): HAO, Chenxi** [CN/CN]; 5775
Morehouse Drive, San Diego, California 92121-1714 (US).
MANOLAKOS, Alexandros [GR/US]; 5775 Morehouse
Drive, San Diego, California 92121-1714 (US). **LUO, Tao**
[US/US]; 5775 Morehouse Drive, San Diego, California
92121-1714 (US). **ZHANG, Yu** [CN/CN]; 5775 More-
house Drive, San Diego, California 92121-1714 (US).

(74) **Agent: NTD PATENT & TRADEMARK AGENCY LTD.**; 10th Floor, Tower C, Beijing Global Trade Center, 36 North Third Ring Road East, Dongcheng District, Beijing 100013 (CN).

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(54) **Title:** DETERMINING BEAM FAILURE BASED ON A DYNAMIC RANGE OF TRANSMISSION POWER RATIOS

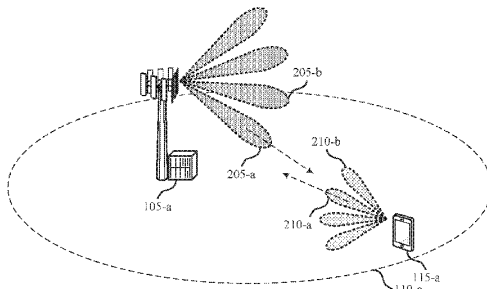


FIG. 2

(57) **Abstract:** Methods, systems, and devices for wireless communication are described that support beam failure determination based on a dynamic range of transmission power ratios between two reference signals (e.g., between a channel state information reference signal (CSI-RS) and a demodulation reference signal (DMRS) of a physical downlink control channel (PDCCH)). A wireless device may identify the dynamic range of transmission power ratios that may be used by a base station (e.g., via indications of maximum and minimum transmission power ratios, indications of one or more offsets from some average transmission power ratio, etc. sent from the base station). The wireless device may use the identified dynamic range of transmission power ratios, along with a CSI-RS measurement, to determine a range of hypothetical block error rates (BLERs). Values within the range of hypothetical BLERs may be compared to a threshold in order to determine a beam failure status (e.g., a beam failure).

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