US 20230232256A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0232256 A1

Cui et al. (43) Pub. Date: Jul. 20, 2023

(54) **MEASUREMENT GAP CONFIGURATION FOR A FREQUENCY RANGE EQUAL TO OR LARGER THAN 52.6 GHZ**

(71) Applicant: **Apple Inc.**, Cupertino, CA (US)

(72) Inventors: **Jie Cui**, San Jose, CA (US); **Qiming Li**, Beijing (CN); **Dawei Zhang**, Saratoga, CA (US); **Hong He**, San Jose, CA (US); **Huaning Niu**, San Jose, CA (US); **Manasa Raghavan**, Sunnyvale, CA (US); **Xiang Chen**, Campbell, CA (US); **Yang Tang**, San Jose, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

(21) Appl. No.: **17/441,696**

(22) PCT Filed: **May 4, 2021**

(86) PCT No.: **PCT/CN2021/091809**

§ 371 (c)(1),
(2) Date: **Sep. 21, 2021**

Publication Classification

(51) **Int. Cl.**
H04W 24/08 (2006.01)
H04W 24/10 (2006.01)

(52) **U.S. Cl.**
CPC ***H04W 24/08*** (2013.01); ***H04W 24/10*** (2013.01)

(57) **ABSTRACT**

The present application relates to devices and components including apparatus, systems, and methods to perform measurements on reference signals based on measurement gaps. In an example, a device supports a frequency range that includes frequencies equal to or larger than 52.6 GHz. Measurement gap capability information is used to indicate and/or determine whether a measurement gap is supported for this frequency range. If so, measurement gap configuration can be defined and can include a measurement gap length and/or a measurement gap repetition period defined based on the frequencies being equal to or larger than 52.6 GHz.