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(54) **WIRELESS COMMUNICATION DEVICE AND OPERATING METHOD OF THE SAME**

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

(72) Inventors: **Minki AHN**, Suwon-si (KR); **Sungsoo Kim**, Suwon-si (KR); **Jung Woon Lee**, Suwon-si (KR)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

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(57) **ABSTRACT**
A first wireless communication apparatus includes: a transceiver configured to: receive a radio frequency (RF) signal via a channel from a second wireless communication apparatus, and downconvert the RF signal to generate a received signal that has a lower frequency than a frequency of the RF signal; and a processing circuit configured to: compare the received signal with a reference signal to generate a compensation index based on a comparison result, and compensate an initial first arrival path (FAP) time index of the received signal based on the compensation index to generate a final FAP time index.

