



- (51) **International Patent Classification:**
H04W 64/00 (2009.01) *H04W 76/14* (2018.01)
G01S 5/00 (2006.01)
- (21) **International Application Number:**
PCT/IB2024/060712
- (22) **International Filing Date:**
30 October 2024 (30.10.2024)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/595,450 02 November 2023 (02.11.2023) US
- (71) **Applicant: LENOVO (SINGAPORE) PTE LIMITED**
[SG/SG]; 151, Lorong Chuan #02-01, New Tech Park, Singapore 556741 (SG).
- (72) **Inventors: THOMAS, Robin Rajan;** 8001 Development Drive, 2nd Floor, Morrisville, North Carolina 27560 (US).
CHOI, Hyung-Nam; 8001 Development Drive, 2nd Floor, Morrisville, North Carolina 27560 (US).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).
- Published:**
- *with international search report (Art. 21(3))*
 - *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
 - *upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)*

- (54) Title:** APPARATUS AND METHOD FOR REFERENCE ANCHOR UE FOR SIDELINK POSITIONING

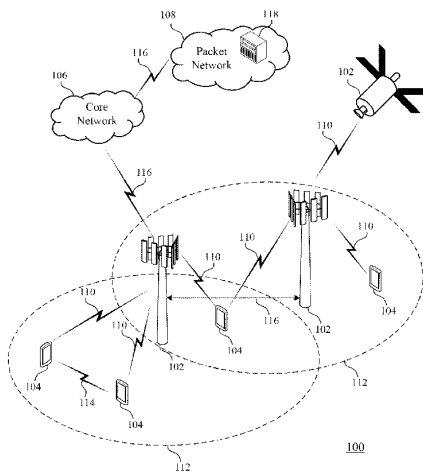


FIG. 1

- (57) Abstract:** Various aspects of the present disclosure relate to a reference anchor UE for sidelink positioning of a target UE. The reference anchor may be selected by the target UE or a positioning entity such as a location management function (LMF) or server UE. A target UE may receive a list of initial anchor UEs, select a set of active anchor UEs from the list of initial anchor UEs, select a reference anchor UE from the set of active anchor UEs using one or more selection criteria, perform one or more sidelink positioning measurement with respect to the reference anchor UE, and transmit the one or more sidelink positioning measurement and information for the reference anchor UE to a position calculation entity.