

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 February 2025 (20.02.2025)



(10) International Publication Number
WO 2025/037265 A1

- (51) International Patent Classification:
H04L 5/00 (2006.01)
- (21) International Application Number:
PCT/IB2024/057923
- (22) International Filing Date:
15 August 2024 (15.08.2024)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
63/532,984 16 August 2023 (16.08.2023) US
18/805,183 14 August 2024 (14.08.2024) US
- (71) Applicant: **LENOVO (SINGAPORE) PTE. LTD.**
[SG/SG]; 151 Lorong Chuan, #02-#01, New TechPark, Singapore 556741 (SG).
- (72) Inventors: **THOMAS, Robin Rajan**; Lixfelder Weg 11, 60489 Frankfurt (DE). **CHOI, Hyung-Nam**; Rubensstrasse 11, 85521 Ottobrunn (DE).
- (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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: **SIDELINK POSITIONING ASSISTANCE**

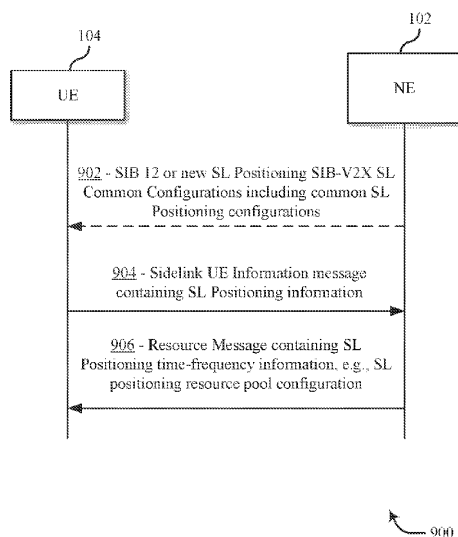


Figure 9

(57) **Abstract:** Various aspects of the present disclosure relate to sidelink positioning assistance. An apparatus, such as a user equipment (UE), transmits a configuration message (e.g., to a network equipment) including an indication to perform one or more of sidelink positioning reference signal (SL-PRS) or SL positioning data message transmission, and the configuration message includes one or more SL positioning parameters. The apparatus receives a resource configuration message including a set of time-frequency resources in which to perform the one or more of the SL-PRS or SL positioning data message transmission.

WO 2025/037265 A1

[Continued on next page]

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))*