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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 February 2025 (27.02.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/039559 A9

(51) International Patent Classification:
H04W 72/0453 (2023.01)

(21) International Application Number:
PCT/CN2024/085218

(22) International Filing Date:
01 April 2024 (01.04.2024)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **LENOVO (BEIJING) LIMITED** [CN/CN]; 6 Shangdi West Road, Haidian District, Beijing 100085 (CN).

(72) Inventors: **YAN, Zhi**; Lenovo HQ, No. 10 Xibeiwang East Road, Haidian District, Beijing 100094 (CN). **LIU, Hongmei**; Lenovo HQ, No. 10 Xibeiwang East Road, Haidian District, Beijing 100094 (CN). **ZHANG, Yuantao**; Lenovo HQ, No. 10 Xibeiwang East Road, Haidian District, Beijing 100094 (CN). **MA, Ruixiang**; Lenovo HQ, No. 10 Xibeiwang East Road, Haidian District, Beijing 100094 (CN).

(74) Agent: **LEE AND LI-LEAVEN IPR AGENCY LTD.**; Unit 2202, Tower A, Beijing Pudi Hotel, No. 7, Jian Guo Men South Avenue, Dongcheng District, Beijing 100005 (CN).

(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)*

(48) Date of publication of this corrected version:
03 April 2025 (03.04.2025)

(15) Information about Correction:
see Notice of 03 April 2025 (03.04.2025)

(54) Title: METHOD AND APPARATUS OF UPLINK TRANSMISSIONS

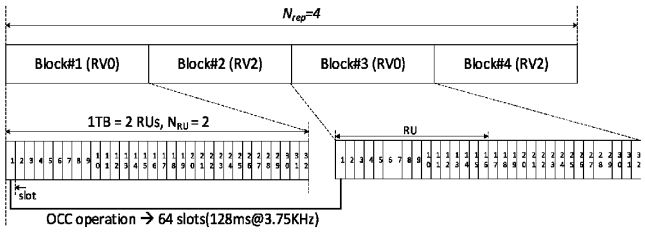

FIG. 2

(57) Abstract: Various aspects of the present disclosure relate to relate to a method and apparatus of uplink transmissions. An exemplary method performed by a UE may include: receiving an uplink configuration; applying a multiplexing sequence to process uplink data based on the uplink configuration, wherein the multiplexing sequence is associated with a spreading factor; and transmitting the processed uplink data in physical resources based on the uplink configuration.

WO 2025/039559 A9