

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 July 2025 (24.07.2025)



(10) International Publication Number
WO 2025/154038 A1

- (51) **International Patent Classification:**
H04W 48/08 (2009.01) *H04W 48/20* (2009.01)
- (21) **International Application Number:**
PCT/IB2025/051102
- (22) **International Filing Date:**
01 February 2025 (01.02.2025)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/549,376 02 February 2024 (02.02.2024) US
- (71) **Applicant:** LENOVO (SINGAPORE) PTE. LTD.
[SG/SG]; 151, Lorong Chuan #02-01, New Tech Park, Singapore 556741 (SG).
- (72) **Inventors:** JUNG, Hyejung; 3470 Sorrel Dr., Northbrook, Illinois 60062 (US). BASU MALLICK, Prateek; Jakob-Heil-Str 51, 63303 Dreieich (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, UY, 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,

(54) **Title:** CELL SELECTION WITH ON-DEMAND TRANSMISSION OF AT LEAST ONE PART OF ESSENTIAL SYSTEM INFORMATION

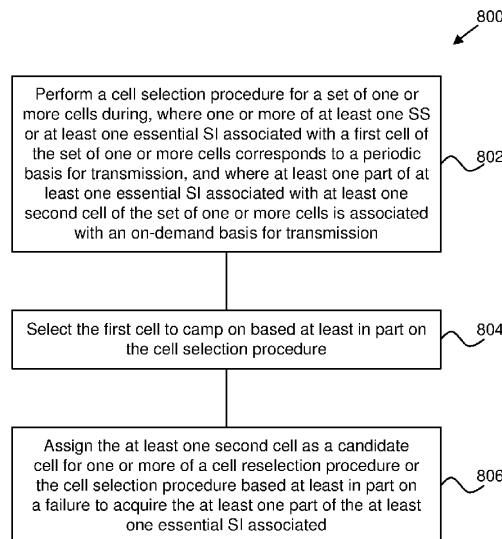


FIG. 8

(57) **Abstract:** Various aspects of the present disclosure relate to performing (802) a cell selection procedure for a set of one or more cells, where a synchronization signal or essential system information (SI) associated with a first cell of the set of one or more cells corresponds to a periodic basis for transmission, and where at least one part of essential SI associated with a second cell of the set of one or more cells is associated with an on-demand basis for transmission; selecting (804) the first cell to camp on based at least in part on the cell selection procedure; and assigning (806) the second cell as a candidate cell for one or more of a cell reselection procedure or the cell selection procedure based at least in part on a failure to acquire the at least one part of the essential SI.

[Continued on next page]

WO 2025/154038 A1

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)*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*