

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 February 2024 (15.02.2024)



(10) International Publication Number
WO 2024/031451 A1

(51) International Patent Classification:
H04L 27/00 (2006.01)

(21) International Application Number:
PCT/CN2022/111515

(22) International Filing Date:
10 August 2022 (10.08.2022)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants (for CN only): **NOKIA SHANGHAI BELL CO., LTD.** [CN/CN]; No. 388, Ningqiao Road, China (Shanghai) Pilot Free Trade Zone, Shanghai 201206 (CN). **NOKIA SOLUTIONS AND NETWORKS OY** [FI/FI]; Karakaari 7, 02610 Espoo (FI).

(71) Applicant (for all designated States except CN): **NOKIA TECHNOLOGIES OY** [FI/FI]; Karakaari 7, 02610 Espoo (FI).

(72) Inventors: **DU, Lei**; Xiangshuwan 1-2-1-602, Haidian District, Beijing 100085 (CN). **DALSGAARD, Lars**; Torpantie 56, 90230 Oulu (FI). **YOON, Daejung**; 1 Allee Rene Leriche, 91300 Massy (FR).

(74) Agent: **KING & WOOD MALLESONS**; 20th Floor, East Tower, World Financial Centre, No. 1 Dongsanhuan Zhonglu, Chaoyang District, Beijing 100020 (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, ME, MG, MK, MN, 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, 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, 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).

(54) Title: REDUCING CELL ACTIVATION DELAY

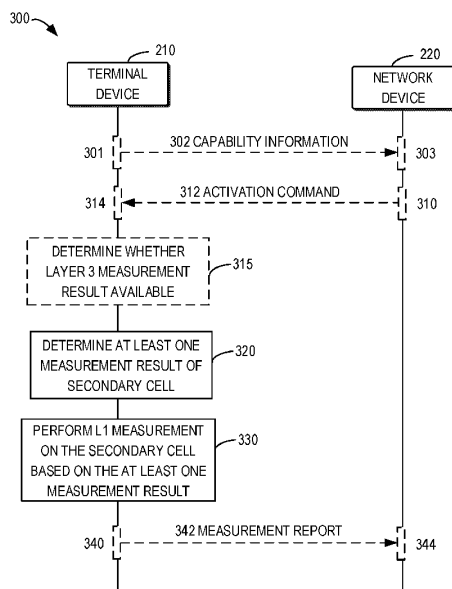


FIG. 3

(57) Abstract: Example embodiments of the present disclosure relate to a terminal device, a network device, methods, apparatuses and a computer readable storage medium for reducing cell activation delay. A terminal device determines, during an activation procedure of a secondary cell, at least one measurement result of the secondary cell at the terminal device, and performs a layer 1 measurement on the secondary cell based, at least partially, on the at least one measurement result. As such, there is no need to perform the layer 1 measurement on full beams and the time length of the activation procedure may be shorter. Thus, the activation delay can be reduced, the power consumption can be reduced, and the communication efficiency may be improved.

WO 2024/031451 A1

[Continued on next page]

Published:

— with international search report (Art. 21(3))