



(51) International Patent Classification:
H04W 56/00 (2009.01)

(21) International Application Number:
PCT/CN2024/073910

(22) International Filing Date:
24 January 2024 (24.01.2024)

(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: **YUE, Ran**; Lenovo HQ East, Building No.
1, No. 10 Xibeiwang East Road, Haidian, Beijing 100094
(CN). **WU, Lianhai**; Lenovo HQ East, Building No. 1, No.
10 Xibeiwang East Road, Haidian, Beijing 100094 (CN).
WANG, Haiming; Lenovo HQ East, Building No. 1, No.
10 Xibeiwang East Road, Haidian, Beijing 100094 (CN).

(74) Agent: **KING & WOOD MALLESONS**; 20th Floor,
East Tower, World Financial Centre, No. 1 Dongsanhuan
Zhonglu, Chaoyang, 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, 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,

(54) Title: DOWNLINK SIGNAL DETERMINATION

600

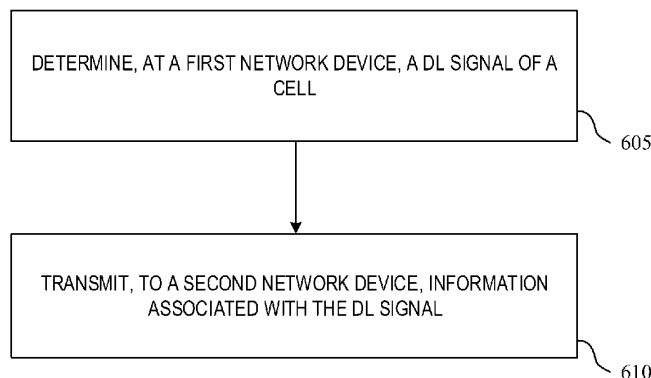


FIG. 6

(57) Abstract: Various aspects of the present disclosure relate to base stations, apparatuses and methods for determining a downlink (DL) signal. In an aspect, a first network device determines a DL signal of a cell. The first network device further transmits information associated with the DL signal to a second network device. By implementing the embodiments of the present disclosure, a solution of determining a DL signal to support on-demand synchronization signal and/or physical broadcast channel block (SSB) and/or system information block 1 (SIB1) can be provided. For example, the determination of the SSB and/or SIB1 transmission for an on-demand SSB and/or SIB1 secondary cell (SCell) and interaction information between centralized unit (CU) and distributed unit (DU) nodes can be provided.

[Continued on next page]

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)*