

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 August 2024 (22.08.2024)



(10) International Publication Number
WO 2024/170232 A1

(51) International Patent Classification:

H04B 7/15 (2006.01) *H04W* 84/04 (2009.01)
H04W 28/02 (2009.01) *H04W* 88/04 (2009.01)
H04W 36/08 (2009.01) *H04W* 88/08 (2009.01)
H04W 36/06 (2009.01) *H04W* 92/20 (2009.01)

(21) International Application Number:

PCT/EP2024/051544

(22) International Filing Date:

23 January 2024 (23.01.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2302171.0	15 February 2023 (15.02.2023)	GB
2305082.6	05 April 2023 (05.04.2023)	GB
2307011.3	11 May 2023 (11.05.2023)	GB
2314756.4	26 September 2023 (26.09.2023)	GB

(71) Applicant: **CANON KABUSHIKI KAISHA** [JP/JP];
30-2 SHIMOMARUKO 3-CHOME, OHTA-KU, Tokyo
146-8501 (JP).

(71) Applicant (for AE only): **CANON EUROPE LIMITED**
[GB/GB]; 4 Roundwood Avenue, Stockley Park, Uxbridge
Middlesex UB11 1AF (GB).

(72) Inventors: **VISA, Pierre**; C/O Canon Research Centre
France S.A.S., Rue de la Touche Lambert — CS 91716,
35517 Cesson-Sévigné Cedex (FR). **LAGRANGE, Pascal**;
C/O Canon Research Centre France S.A.S. Rue de la Touche
Lambert — CS 91716, 35517 Cesson-Sévigné Cedex (FR).

(74) Agent: **CANON EUROPE LIMITED**; 4 Roundwood Avenue,
Stockley Park, Uxbridge Middlesex UB11 1AF (GB).

(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,

(54) Title: MIGRATION OF NODES IN AN IAB COMMUNICATION SYSTEM

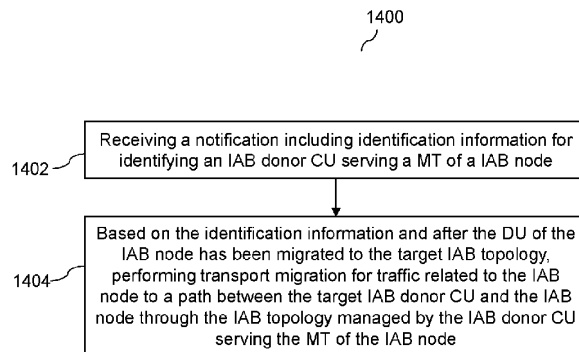


Figure 14

(57) Abstract: A method and apparatus for use in managing transport migration for traffic related to an Integrated Access Backhaul, IAB, node, is disclosed. The transport migration to be performed after a Distributed Unit, DU, of the IAB-node has been migrated from a source IAB topology managed by a source IAB-donor Central Unit, CU, to a target IAB topology managed by a target IAB-donor-CU. A method at the target IAB-donor-CU comprises: receiving a notification including identification information for identifying an IAB-donor-CU serving a Mobile Termination, MT, of the IAB-node, the IAB-donor-CU serving the MT of the IAB-node being a different IAB-donor-CU to the target IAB-donor-CU; based on the identification information and after the DU of the IAB-node has been migrated to the target IAB topology, performing transport migration for migrating traffic related to the IAB-node for routing over at least one path between the target IAB-donor-CU and the IAB-node through an IAB topology managed by the IAB-donor-CU serving the MT. The target IAB-donor-CU may receive the notification from the source IAB-donor-CU, from the IAB-node or from the IAB-donor-CU serving the MT.

[Continued on next page]

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