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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
05 October 2023 (05.10.2023)

WIPO | PCT

(10) International Publication Number
WO 2023/186918 A1

(51) International Patent Classification:
H04L 67/568 (2022.01) *H04N 21/60* (2011.01)
H04L 67/1034 (2022.01)

(21) International Application Number:
PCT/EP2023/058032

(22) International Filing Date:
28 March 2023 (28.03.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
22305380.2 28 March 2022 (28.03.2022) EP

(71) Applicant: **BROADPEAK** [FR/FR]; 15 rue Claude Chappe, Zone des Champs Blancs, 35510 CESSON SEVIGNE (FR).

(72) Inventors: **BICHOT, Guillaume**; 26 rue de Montmuran, 35630 LA CHAPELLE CHAUSSEE (FR). **VINCENT, Richard**; 3 allée du Moulin, 35250 CHEVAIGNE (FR). **TRAN, Tuan**; 4 rue Louis Pasteur, 31170 TOURNEFEUILLE (FR).

(74) Agent: **LE GUEN MAILLET 728**; 3 impasse de la Vigie, CS 71840, 35418 SAINT-MALO Cedex (FR).

(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))*

(54) Title: METHOD FOR ENSURING SERVICE CONTINUITY WHEN DELIVERING AN AUDIO AND/OR VIDEO CONTENT IN A MOBILE NETWORK

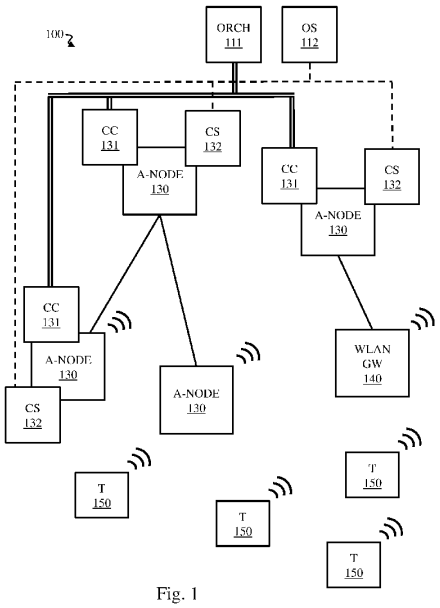


Fig. 1

(57) Abstract: An audio and/or video content delivery system (100) is deployed on top of a mobile network, and comprises plural cache servers (132) arranged using a layer-based hierarchical tree topology. A breakout function of aggregation nodes (130) of the mobile network enables routing to the cache servers (132) packets addressed to an anycast addressing associated with the cache servers (132), wherein each layer of the layer-based hierarchical tree topology is associated with an anycast addressing. Traffic steering is configured so that the breakout function in each layer routes traffic addressed to the anycast addressing associated with said layer to the cache server (132) of said layer as well as of any and all downstream layers, in order to ensure service continuity for delivering an audio and/or video content to a mobile terminal (150).

WO 2023/186918 A1