

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 January 2022 (27.01.2022)



(10) International Publication Number
WO 2022/019830 A1

(51) International Patent Classification:
H04W 72/04 (2009.01) *H04L 5/00* (2006.01)
H04W 84/12 (2009.01)

(21) International Application Number:
PCT/SG2021/050402

(22) International Filing Date:
08 July 2021 (08.07.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10202007139P 24 July 2020 (24.07.2020) SG

(71) Applicant: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA [US/US]; 2050 W 190th Street, Suite 450, Torrance, California 90504 (US).

(72) Inventors: HUANG, Lei; c/o Panasonic R&D Center Singapore, 202 Bedok South Avenue 1 #02-11, Singapore

469332 (SG), URABE, Yoshio; c/o Panasonic Corporation, 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).

(74) Agent: SPRUSON & FERGUSON (ASIA) PTE LTD; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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,

(54) Title: COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR TRIGGER-BASED UPLINK MULTIUSER TRANSMISSION

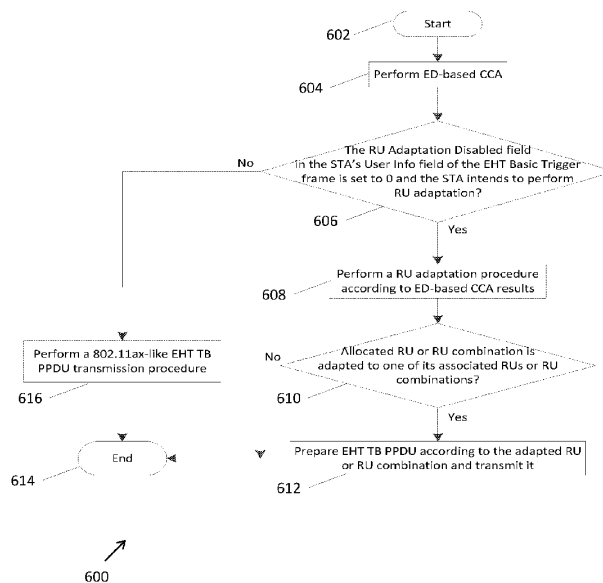


Fig. 6

(57) Abstract: The present disclosure provides communication apparatus and communication method for trigger-based uplink multi-user transmission. A communication apparatus is provided, the communication apparatus comprising: circuitry, which in operation, generates a trigger frame comprising a common info field and a plurality of user info fields; and a transmitter, which in operation, transmits the generated trigger frame; wherein each of the plurality of user info fields comprises a first field which indicates whether a resource unit (RU) adaptation procedure is disabled for another communication apparatus addressed by the each of the plurality of user info field and a second field which indicates a RU or RU combination allocated to the another communication apparatus.

[Continued on next page]

GM, KE, LR, LS, MW, MZ, NA, RW, 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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

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

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