



(51) International Patent Classification:

H04W 72/04 (2009.01) H04L 5/00 (2006.01)
H04B 7/02 (2018.01) H04L 1/18 (2006.01)

(21) International Application Number:

PCT/SG2021/050327

(22) International Filing Date:

05 June 2021 (05.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202007552X 06 August 2020 (06.08.2020) SG

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

(72) Inventors: **TRAN, Xuan Tuong**; c/o Panasonic R&D Center Singapore, 202 Bedok South Avenue 1 #02-11, Singapore 469332 (SG). **SUZUKI, Hidetoshi**; c/o Panason-

ic Corporation, 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP). **YAMAMOTO, Tetsuya**; c/o Panasonic Corporation, 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP). **LI, Hongchao**; c/o Panasonic R&D Center Germany GmbH, Monzastasse 4C, 63225 Langen (DE). **OGAWA, Yoshihiko**; 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,

(54) Title: MULTI-TB SCHEDULING FOR SINGLE DCI-BASED MULTI-TRP AND PANEL TRANSMISSION

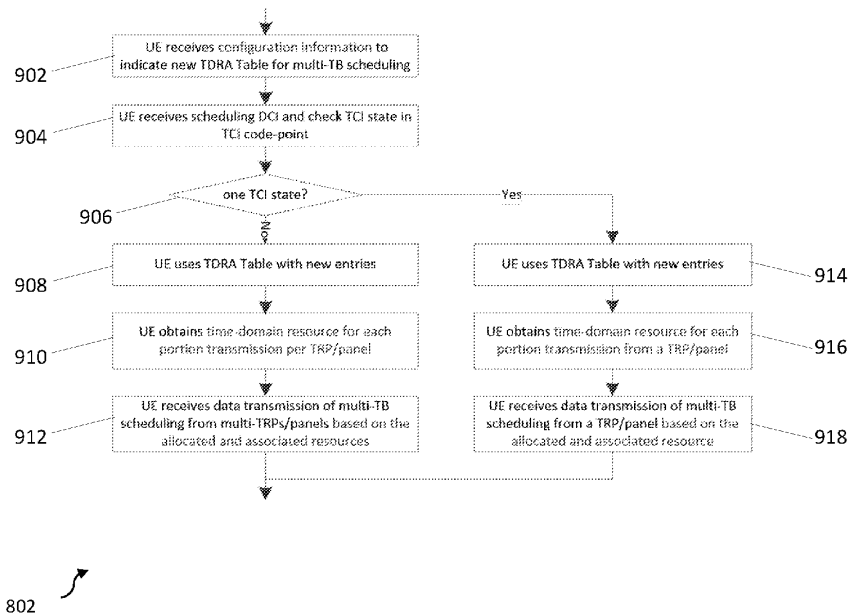


Fig. 9

(57) Abstract: The present disclosure provides communication apparatuses and communication methods for implementation of Multi-TB Scheduling for Single DCI-Based Multi-TRP/Panel Transmission and Single DCI-based Single TRP/Panel Transmission. The communication apparatuses include a communication apparatus which comprises a receiver, which in operation, receives a single downlink control information (DCI) including scheduling information, the scheduling information indicating radio resources of a plurality of transport blocks (TBs); and circuitry, which in operation, obtains the radio resources of the plurality of TBs based on the scheduling information.

[Continued on next page]

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, 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*