



(51) International Patent Classification:

H04L 5/00 (2006.01) H04W 52/00 (2009.01)
H04W 72/04 (2009.01)

(21) International Application Number:

PCT/US2017/059575

(22) International Filing Date:

01 November 2017 (01.11.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/417,997 04 November 2016 (04.11.2016) US
15/673,085 09 August 2017 (09.08.2017) US

(71) Applicant: **QUALCOMM INCORPORATED** [US/US];
Attn: International IP Administration, 5775 Morehouse Drive,
San Diego, California 92121-1714 (US).

(72) Inventors: **RICO ALVARINO, Alberto**; 5775 Morehouse Drive,
San Diego, California 92121-1714 (US).

CHEN, Wanshi; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **XU, Hao**; 5775 Morehouse Drive,
San Diego, California 92121-1714 (US).

(74) Agent: **YEUNG, Derek**; Loza & Loza, LLP, 305 North Second Avenue #127, Upland, California 91786 (US).

(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, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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,

(54) Title: POWER CONTROL AND TRIGGERING OF SOUNDING REFERENCE SIGNAL ON MULTIPLE COMPONENT CARRIERS

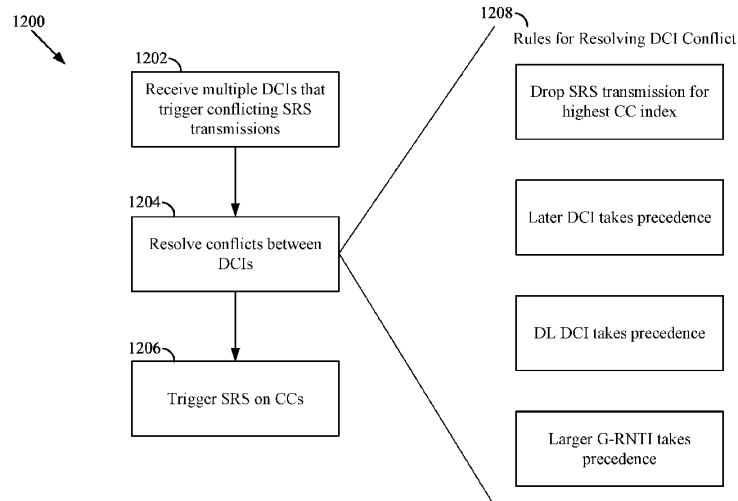


FIG. 12

(57) Abstract: Various devices, methods, and processes are provided for handling conflicting and/or redundant power control and triggering information for transmitting reference signal(s) such as sounding reference signal (SRS) using carrier aggregation (CA). A user equipment (UE) receives a first downlink control information (DCI) and a second DCI including SRS control information that is in conflict with that of the first DCI, for controlling SRS transmission on a component carrier (CC). The UE determines a resolution to reconcile the conflict between the DCIs. Then the UE can transmit an SRS on the CC in accordance with the resolution.



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:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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