



(51) International Patent Classification:
H04W 74/08 (2009.01) *H04W 16/14* (2009.01)

(21) International Application Number:
PCT/US2017/054543

(22) International Filing Date:
29 September 2017 (29.09.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/407,365 12 October 2016 (12.10.2016) US
15/486,197 12 April 2017 (12.04.2017) US

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

(72) Inventors: **ZHANG, Xiaoxia**; 5775 Morehouse Drive, San
Diego, California 92121-1714 (US). **MONTOJO, Juan**;
5775 Morehouse Drive, San Diego, California 92121-1714
(US). **YOO, Taesang**; 5775 Morehouse Drive, San Diego,
California 92121-1714 (US). **MALLIK, Siddhartha**; 5775
Morehouse Drive, San Diego, California 92121-1714 (US).
DAMNJANOVIC, Aleksandar; 5775 Morehouse Drive,

San Diego, California 92121-1714 (US). **FAN, Michael
Mingxi**; 5775 Morehouse Drive, San Diego, California
92121-1714 (US).

(74) Agent: **DRAPKIN, Michael L.**; Holland & Hart LLP, P.O.
Box 11583, Salt Lake City, Utah 84147 (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,
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,

(54) Title: TECHNIQUES FOR CONTENDING FOR ACCESS TO A RADIO FREQUENCY SPECTRUM BAND USING A CO-ORDINATED LISTEN BEFORE TALK PROCEDURE

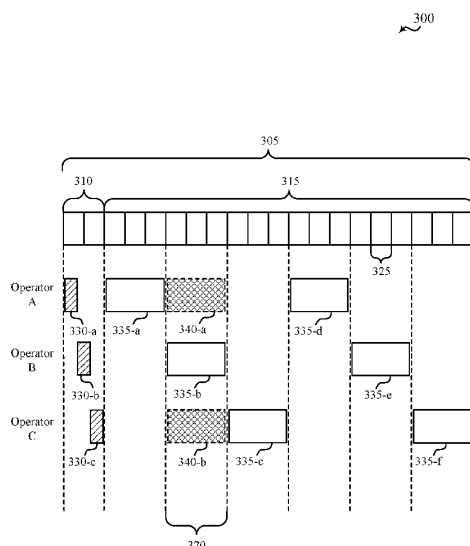


FIG. 3

(57) Abstract: Techniques are described for wireless communication at a wireless device. One method includes identifying a priority of the wireless device for a transmission interval of a radio frequency spectrum band shared by a plurality of network operating entities; identifying an absence of a predetermined transmission type in each of a number of clear channel assessment (CCA) slots of the transmission interval, in which each of the number of CCA slots is associated with a higher priority than the identified priority of the wireless device; and communicating over the radio frequency spectrum band based at least in part on the identified absence of the predetermined transmission type in each of the number of CCA slots associated with the higher priority than the priority of the wireless device.

[Continued on next page]

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))*