



(51) International Patent Classification:

H04B 7/0404 (2017.01) H04B 7/08 (2006.01)
H04B 7/06 (2006.01) H04W 72/04 (2009.01)

(21) International Application Number:

PCT/US2019/050024

(22) International Filing Date:

06 September 2019 (06.09.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/744,188 11 October 2018 (11.10.2018) US
16/561,999 05 September 2019 (05.09.2019) US

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

(72) Inventors: **ZHOU, Yan**; QUALCOMM INCORPORAT-
ED, 5775 Morehouse Drive, San Diego, California
92121-1714 (US). **JOHN WILSON, Makesh Pravin**;
QUALCOMM INCORPORATED, 5775 Morehouse Drive,
San Diego, California 92121-1714 (US). **LUO, Tao**;
QUALCOMM INCORPORATED, 5775 Morehouse Drive,
San Diego, California 92121-1714 (US).

(74) Agent: **BINDSEIL, James J.** et al.; c/o Arent Fox LLP,
1717 K Street NW, Washington, District of Columbia
20006-5344 (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,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(54) Title: TECHNIQUES FOR CONFIGURING ACTIVE SPATIAL RELATIONS IN WIRELESS COMMUNICATIONS

(57) Abstract: Aspects described herein relate to configuring active spatial relations in wireless communications. A capability indicating a number of active spatial relations supported for detecting downlink reference signals or generating uplink beams can be indicated to an access point. A configuration of spatial relations indicating a transmit filter of reference signals for use in transmitting uplink communications can be received from the access point and based on the capability. One or more of the reference signals received from the access point can be detected based on the configuration.

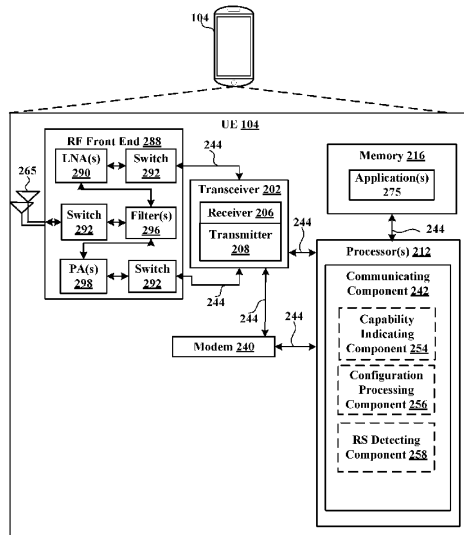


FIG. 2

Published:

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