



(51) International Patent Classification:
H04L 5/00 (2006.01)

(21) International Application Number:
PCT/US2017/050050

(22) International Filing Date:
05 September 2017 (05.09.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/398,012 22 September 2016 (22.09.2016) US
15/692,436 31 August 2017 (31.08.2017) US

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

(72) Inventors: **SUN, Jing**; 5775 Morehouse Drive, San Diego,
California 92121-1714 (US). **CHEN, Wanshi**; 5775 More-
house Drive, San Diego, California 92121-1714 (US).
GAAL, Peter; 5775 Morehouse Drive, San Diego, Califor-
nia 92121-1714 (US). **RICO ALVARINO, Alberto**; 5775
Morehouse Drive, San Diego, California 92121-1714 (US).

(74) Agent: **READ, Randol W.** et al.; Patterson & Sheridan,
L.L.P., 24 Greenway Plaza, Suite 1600, Houston, Texas
77046-2472 (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: FLEXIBLE DATA AND/OR REFERENCE SIGNAL SCHEDULING IN ONE OR MORE UPLINK PILOT TIME SLOTS IN A WIRELESS NETWORK

(57) Abstract: Certain aspects of the present disclosure provide techniques for flexible scheduling of reference signals and data in an uplink pilot time slot (UpPTS) in a wireless network. A method of wireless communication by a base station (BS) is provided. The method generally includes scheduling a first one or more symbols of a UpPTS for one or more user equipments (UEs) to transmit data and a second one or more symbols of the UpPTS for one or more UEs to transmit one or more sounding reference signals (SRSs). The BS receives the data in the first one or more symbols and the one or more SRSs in the second one or more symbols. Based on the scheduling received from the BS, the UE determines the symbols of the UpPTS for transmission of SRSs and data.

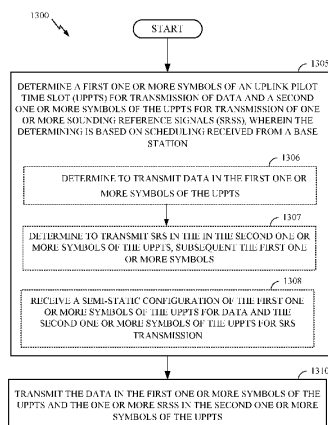


FIG. 13

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

07 June 2018 (07.06.2018)