

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 February 2020 (27.02.2020)



(10) International Publication Number
WO 2020/040911 A1

(51) International Patent Classification:
H04W 52/14 (2009.01) *H04W 72/04* (2009.01)
H04W 52/36 (2009.01)

(21) International Application Number:
PCT/US2019/042459

(22) International Filing Date:
18 July 2019 (18.07.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/720,310 21 August 2018 (21.08.2018) US
16/157,498 11 October 2018 (11.10.2018) US

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

(72) Inventors: **DING, Ling**; 5775 Morehouse Drive, San
Diego, California 92121 (US). **HAN, Junsheng**; 5775
Morehouse Drive, San Diego, California 92121 (US).
CHALLA, Raghu Narayan; 5775 Morehouse Drive, San
Diego, California 92121 (US). **LI, Junyi**; 5775 Morehouse
Drive, San Diego, California 92121 (US).

(74) Agent: **YANG, Changwoo**; 5775 Morehouse Drive, AT-
TN: International IP Administration, San Diego, California
92121-1714 (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: REPORTING ACTUAL UPLINK TRANSMISSION POWER

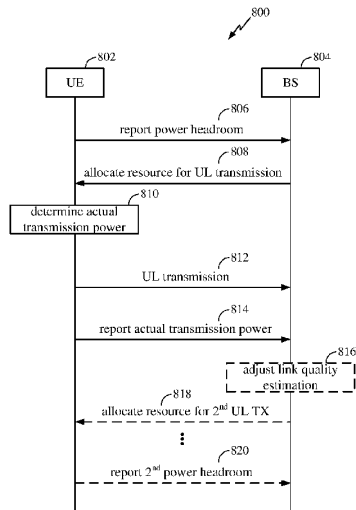


FIG. 8

(57) Abstract: Method and apparatus are provided for reporting and receiving actual UL transmission power. In accordance with some implementation, a UE may send a first indication of power headroom to a base station. The UE may receive one or more resources allocation for a UL transmission. The UE then may determine actual transmission power to be used in the UL transmission. Upon determination, the UE may transmit the UL transmission and send an indication of the actual transmission power to the base station. The base station, in response to receiving an indication of actual transmission power of the first UL transmission, may adjust an estimate of the link quality based on the receive indication of actual transmission power.

WO 2020/040911 A1

[Continued on next page]

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))*