CORRECTED VERSION

(19) World Intellectual Property **Organization**

International Bureau

(43) International Publication Date 10 October 2019 (10.10.2019)





(10) International Publication Number WO 2019/193249 A8

(51) International Patent Classification:

H04W 52/14 (2009,01) H04W 52/24 (2009.01) H04W 52/36 (2009.01) H04W 72/04 (2009.01) H04L 5/00 (2006.01)

(21) International Application Number:

PCT/FI2019/050254

(22) International Filing Date:

28 March 2019 (28.03.2019)

(25) Filing Language:

English

(26) Publication Language:

English

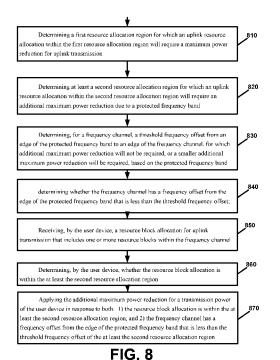
(30) Priority Data: 62/653,423

05 April 2018 (05.04.2018) US

- (71) Applicant: NOKIA TECHNOLOGIES OY [FI/FI]; Karaportti 3, 02610 Espoo (FI).
- Inventors: PIIPPONEN, Antti; Hirsipadonkuja 1 D 28, 00640 Helsinki (FI). LEHTINEN, Vesa; Tumppi 6 C 59, 33720 Tampere (FI). VASENKARI, Petri; Vesivuotavantie 4, 20250 Turku (FI). MARTTILA, Jaakko, Hippoksenkatu 11 F 43, 33540 Tampere (FI).

- (74) Agent: NOKIA TECHNOLOGIES OY et al.; Ari Aarnio, IPR Department, Karakaari 7, 02610 Espoo (FI).
- (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: ADDITIONAL MAXIMUM POWER REDUCTION FOR UPLINK TRANSMISSION FOR WIRELESS NETWORKS



(57) Abstract: A technique for power control including receiving, by a user device, a resource block allocation for uplink transmission that includes one or more resource blocks within a frequency channel; determining at least one resource allocation region for which an uplink resource block allocation within the resource allocation region will require an additional maximum power reduction (e.g., to reduce interference to a protected frequency band); and applying, by the user device, the additional maximum power reduction for a transmission power of the user device based on the resource block allocation being within the at least one resource allocation region.



Published:

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

(48) Date of publication of this corrected version:

16 January 2020 (16.01.2020)

(15) Information about Correction:

see Notice of 16 January 2020 (16.01.2020)