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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 April 2011 (07.04.2011)

PCT

(10) International Publication Number
WO 2011/039214 A2

(51) International Patent Classification:
H04W 52/14 (2009.01)

(21) International Application Number:
PCT/EP2010/064405

(22) International Filing Date:
29 September 2010 (29.09.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/248,092 2 October 2009 (02.10.2009) US

(71) Applicant *(for all designated States except US)*: **TELEFONAKTIEBOLAGET LM ERICSSON (publ)** [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LARSSON, Daniel** [SE/SE]; Storgatan 50, S-171 52 Solna (SE). **BALDEMAIR, Robert** [AT/SE]; Ängkärrsgatan 3, S-171 70 Solna (SE). **GERSTENBERGER, Dirk** [DE/SE]; Birger Jarlsgatan 113 C, S-113 56 Stockholm (SE). **LINDBOM, Lars** [SE/SE]; Fogdegatan 7, S-654 62 Karlstad (SE).

(74) Agent: **VALEA AB**; Box 7086, S-103 87 Stockholm (SE).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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.

[Continued on next page]

(54) Title: METHODS AND ARRANGEMENTS IN A MOBILE TELECOMMUNICATIONS NETWORK

(57) Abstract: The embodiments of the present invention relates to a method in a UE for distributing available transmit power to avoid violation of UE power limitations on the PUCCH and the PUSCH. Available power for transmission on at least the PUCCH is determined and at least one power headroom report indicating the available power for transmission on at least the PUCCH is transmitted to a base station.

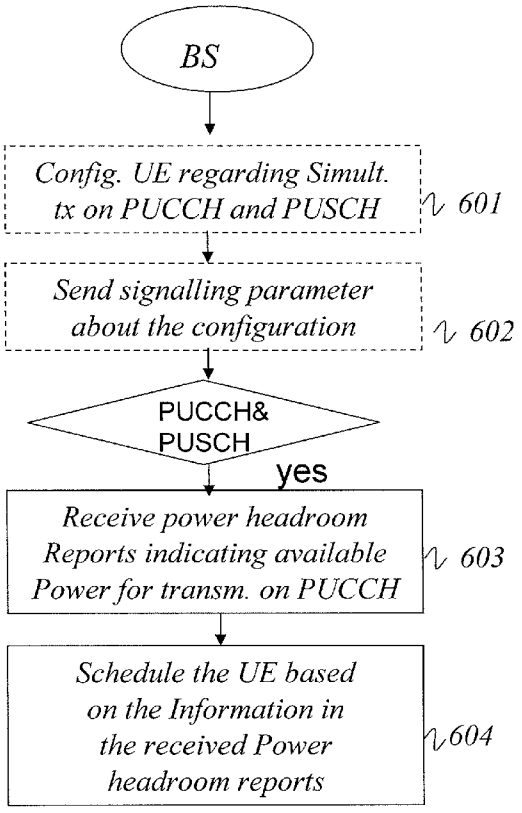


Fig. 6

WO 2011/039214 A2

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*