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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 August 2010 (12.08.2010)

PCT

(10) International Publication Number
WO 2010/089281 A1

(51) International Patent Classification:
H04W 16/14 (2009.01)

(21) International Application Number:
PCT/EP2010/051191

(22) International Filing Date:
1 February 2010 (01.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/150,049 5 February 2009 (05.02.2009) US
12/629,164 2 December 2009 (02.12.2009) US

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

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **WILHELMSSON, Leif** [SE/SE]; Lyftvägen 5, SE-247 55 Dalby (SE).

(74) Agents: **BRATT, Hanna** et al.; Ericsson AB, Nya Vattentornet, S-221 83 Lund (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.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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).

Published:

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

(54) **Title**: COEXISTENCE OF PLURAL WIRELESS COMMUNICATION TRANSCEIVERS IN CLOSE PROXIMITY

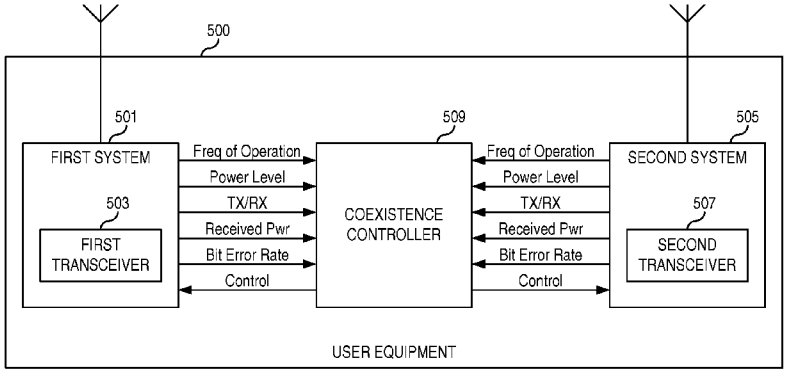


FIG. 5

(57) **Abstract**: A communication device has a plurality of concurrently operating transceivers, each operating in a respectively different one of a plurality of communication systems, wherein the plurality of concurrently operating transceivers includes a first transceiver and a second transceiver. Operation of the communication device includes the first transceiver ascertaining whether transmissions by the second transceiver are causing interference in a receiver of the first transceiver and if so, performing one or more interference response actions. The one or more interference response actions include ascertaining whether the interference is at an acceptable level and if so then taking no further interference response actions. If the interference is ascertained to be at an unacceptable level, an interference mitigation request is communicated to the second transceiver. The second transceiver can, for example, shift its use of frequencies to a region whereby the first transceiver's band select filter can sufficiently attenuate the second transceiver's signal.

WO 2010/089281 A1