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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 September 2011 (01.09.2011)

PCT

(10) International Publication Number
WO 2011/105939 A1

(51) International Patent Classification:
H04W 48/16 (2009.01)

(21) International Application Number:
PCT/SE2010/050212

(22) International Filing Date:
24 February 2010 (24.02.2010)

(25) Filing Language: English

(26) Publication Language: English

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(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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

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

WO 2011/105939 A1

(54) Title: DISCONTINUOUS TRANSMISSION SCHEME

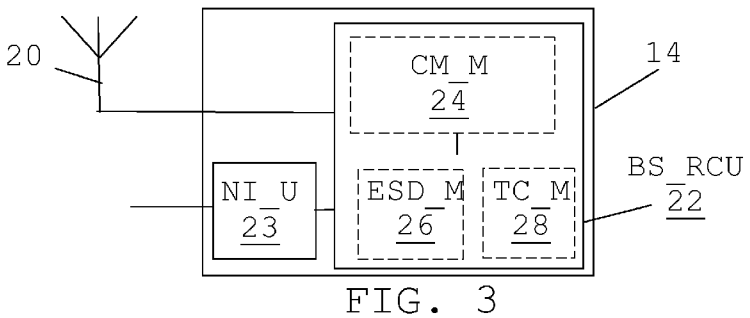


FIG. 3

(57) Abstract: A base station transmits signals on a frequency (f_1) in an active transmission interval (TI) having a starting time and being part of a transmission cycle (TC) including other active transmission intervals for other frequencies (f_0, f_1, f_2, f_3) appearing in a predetermined discontinuous transmission scheme that specifies the relationship (Δ_1, A_2, A_3) between the starting times of the active transmission intervals of the frequencies of the set. The mobile station scans the set of frequencies during a scanning cycle (SC) corresponding to the transmission cycle (TC) and determines the frequencies at which the base stations transmit. The start of each scanning is made at a point in time that is specified for the corresponding frequency by the discontinuous transmission scheme and the scanning of one frequency involves ending scanning of this frequency at the end of a time range (TR) of pre-determined length if no signal is detected within this time range.