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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 September 2009 (24.09.2009)

PCT

(10) International Publication Number
WO 2009/117601 A1

(51) International Patent Classification:
H04W 72/08 (2009.01)

(21) International Application Number:
PCT/US2009/037703

(22) International Filing Date:
19 March 2009 (19.03.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/038,176 20 March 2008 (20.03.2008) US

(71) Applicant *(for all designated States except US)*: **INTERDIGITAL PATENT HOLDINGS, INC.** [US/US]; 3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, DE 19810 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PELLETIER, Benoit** [CA/CA]; 11-13th Street, Roxboro, H8Y 1L3 (CA). **MARINIER, Paul** [CA/CA]; 1805 Stravinski, Brossard, Quebec, J4X 2J7 (CA). **ROY, Vincent** [CA/CA]; 6254 De La Roche, Montreal, Quebec, H2S 2E1 (CA). **PANI, Diana** [CA/CA]; 1950 Lincoln Avenue, Apt. #1812, Montreal, Quebec, H3H 2N8 (CA). **CAVE, Christopher, R.** [CA/CA]; 258 Baffin, Dollard-des-Ormeaux, Montreal, Quebec, H9A 3J2 (CA).

(74) Agent: **HWANG, Yong Beom**; Volpe And Koenig, P.C., United Plaza, Suite 1600, 30 South 17th Street, Philadelphia, PA 19103 (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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR SELECTING ENHANCED DEDICATED CHANNEL TRANSPORT FORMAT COMBINATION IN CELL_FACH STATE AND IDLE MODE

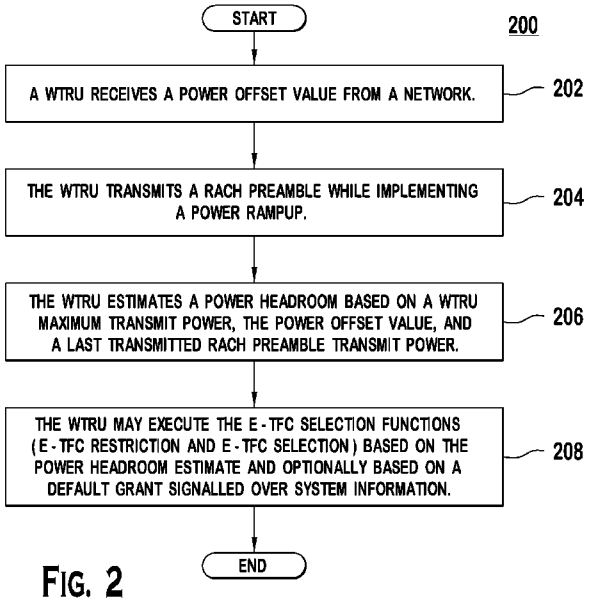


FIG. 2

(57) Abstract: A method and apparatus for selecting an enhanced dedicated channel (E-DCH) transport format combination (E-TFC) in Cell_FACH state and idle mode are disclosed. A wireless transmit/receive unit (WTRU) transmits a random access channel (RACH) preamble and receives an index to an E-DCH resource in response to the RACH preamble. The WTRU may estimate a power headroom based on the maximum WTRU transmit power, power offset value, and the last successfully transmitted RACH preamble transmit power. The WTRU restricts an E-TFC based on the estimated power headroom, and selects an E-TFC based on a set of supported E-TFCs. The WTRU then generates, and transmits, a protocol data unit (PDU) based on the selected E-TFC.

WO 2009/117601 A1

Published:

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

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*