

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 November 2008 (13.11.2008)

PCT

(10) International Publication Number
WO 2008/137596 A1

(51) International Patent Classification:
H04B 1/16 (2006.01)

(21) International Application Number:
PCT/US2008/062291

(22) International Filing Date: 1 May 2008 (01.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/915,421 1 May 2007 (01.05.2007) US
12/112,268 30 April 2008 (30.04.2008) US

(71) Applicant (for all designated States except US): **QUALCOMM Incorporated** [US/US]; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HO, Sai Yiu Duncan** [CA/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **DAMNJANOVIC, Aleksandar** [ES/US]; 5775 Morehouse Drive, San Diego, California 92111 (US).

(74) Agent: **PATEL, Milan I.**; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, California 92121 (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, 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, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(54) Title: EXTENDED MICROSLEEP FOR COMMUNICATIONS

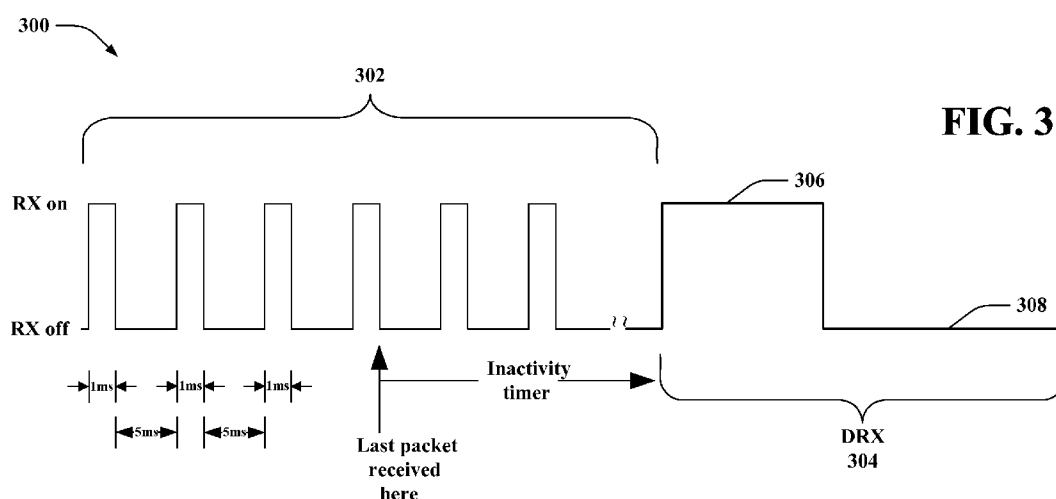


FIG. 3

(57) Abstract: Systems and methodologies are described that facilitate operating an access terminal in an LTE based wireless communication environment utilizing extended microsleep. While in non-DRX mode, an access terminal can operate in on state for a first period of time and in extended microsleep state for a second period of time. Further, the first and second periods of time can form a repeating pattern where these periods of time alternate. Thus, the access terminal can turn on its receiver for the first period of time (e.g., decode downlink information while in on state) and turn off its receiver for the second period of time (e.g., inhibit decoding of downlink information while in extended microsleep state). Further, the first period of time in the repeating pattern can be one TTI (e.g., 1 ms) and the second period of time in the repeating pattern can be a plurality of TTIs (e.g., 5 ms).

WO 2008/137596 A1