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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 May 2009 (22.05.2009)

PCT

(10) International Publication Number
WO 2009/065033 A1

(51) International Patent Classification:
H04W 36/08 (2009.01) *H04W 48/20* (2009.01)

(21) International Application Number:
PCT/US2008/083632

(22) International Filing Date:
14 November 2008 (14.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/988,631	16 November 2007 (16.11.2007)	US
60/988,641	16 November 2007 (16.11.2007)	US
60/988,649	16 November 2007 (16.11.2007)	US
61/025,093	31 January 2008 (31.01.2008)	US
12/269,642	12 November 2008 (12.11.2008)	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)*: **HORN, Gavin B.** [CA/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **ULUPINAR, Fatih** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **AGASHE, Parag A.** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **PRAKASH, Rajat** [IN/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **KHANDEKAR, Aamod** [IN/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **GOROKHOV, Alexei** [FR/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **BHUSHAN, Naga** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

(74) Agent: **CORIE, Florin C.**; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, Califonia 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,

[Continued on next page]

(54) Title: CLASSIFYING ACCESS POINTS USING PILOT IDENTIFIERS

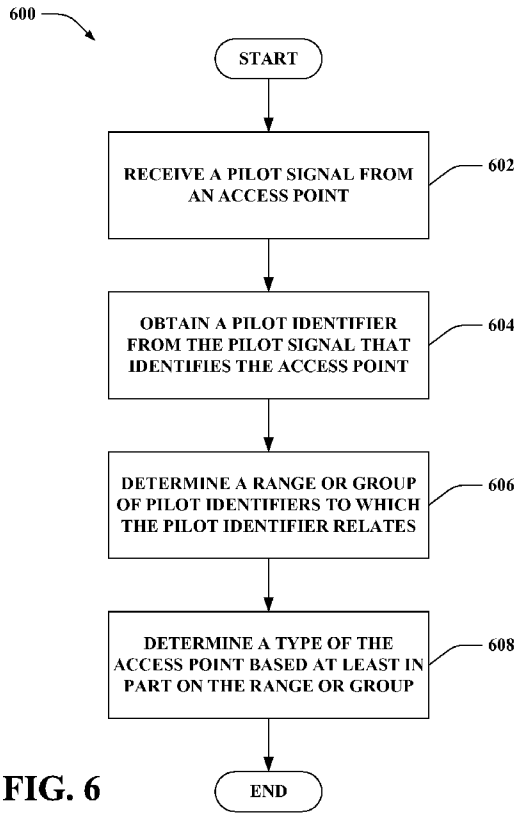


FIG. 6

(57) Abstract: Systems and methodologies are described that facilitate grouping pilot identifies to indicate type and/or classification information regarding one or more access points. The access points can select or be assigned pilot identifiers from the group indicating a type or classification related to the access points. Thus, identifiers can be grouped into macrocell and/or femtocell groups or ranges such that an access point can indicate, and mobile devices can efficiently determine, whether the access point provides macrocell or femtocell coverage based on a range from which its pilot identifier is selected or assigned. In addition, the pilot identifiers can be utilized to indicate restricted association information regarding the access points.

WO 2009/065033 A1

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, 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*