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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 October 2009 (29.10.2009)

PCT

(10) International Publication Number
WO 2009/132034 A1

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

(21) International Application Number:
PCT/US2009/041297

(22) International Filing Date:
21 April 2009 (21.04.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/046,713	21 April 2008 (21.04.2008)	US
61/057,931	2 June 2008 (02.06.2008)	US
12/426,714	20 April 2009 (20.04.2009)	US

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

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CATOVIC, Amer** [BA/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **CHEVALLIER, Christophe** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **PICA, Francesco** [IT/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **DILLS, Jay, F.** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **TRIPATHI, Manish** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **MITTAL, Mukesh, K.** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **SAGLAM, Mustafa** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **PATIL, Sunil, S.** [IN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).

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

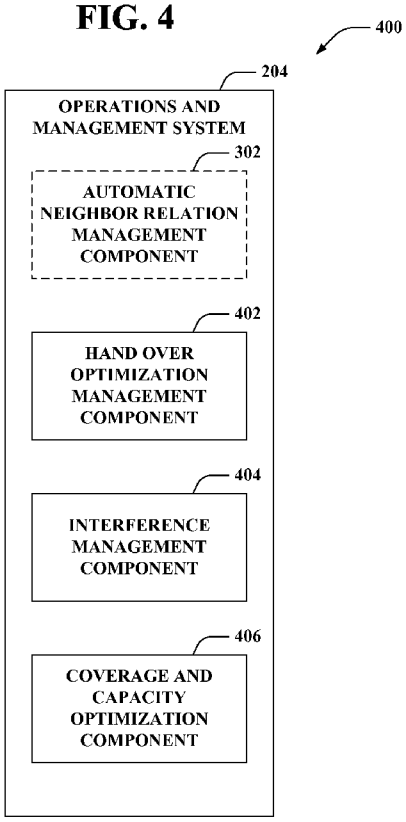
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR MANAGEMENT OF AUTOMATIC NEIGHBOR RELATION FUNCTION IN WIRELESS NETWORKS

(57) Abstract: Systems and methodologies are described that facilitate management of automatic neighbor relation functions in wireless networks. The system can include components and/or devices that ascertain whether or not to add or remove a neighbor relation based on information associated with an operations and management system, wherein the operations and management system dispatches add or remove requests to a base station that establishes, updates, and/or maintains a neighbor relations table and/or set of neighbor relations that includes neighbor relations between cells.

FIG. 4



WO 2009/132034 A1

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).

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 (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))*