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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 January 2010 (21.01.2010)

PCT

(10) International Publication Number
WO 2010/009162 A1

(51) International Patent Classification:
H04W 36/04 (2009.01) *H04W 84/04* (2009.01)
H04W 48/12 (2009.01) *H04W 8/26* (2009.01)

(21) International Application Number:
PCT/US2009/050586

(22) International Filing Date:
14 July 2009 (14.07.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/081,006 15 July 2008 (15.07.2008) US
12/502,098 13 July 2009 (13.07.2009) 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)*: **TINNAKORNSRISUPHAP, Peerapol** [TH/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **NANDA, Sanjiv** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **DESHPANDE, Manoj, M.** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **YAVUZ, Mehmet** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).

(74) Agent: **CORIE, Florin, C.**; 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, 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, 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,

[Continued on next page]

(54) Title: METHOD OF COMMUNICATING BETWEEN AN ACCESS TERMINAL AND A FEMTO NODE, WIRELES COMMUNICATION APPARATUS, AND COMPUTER PROGRAM. PRODUCT

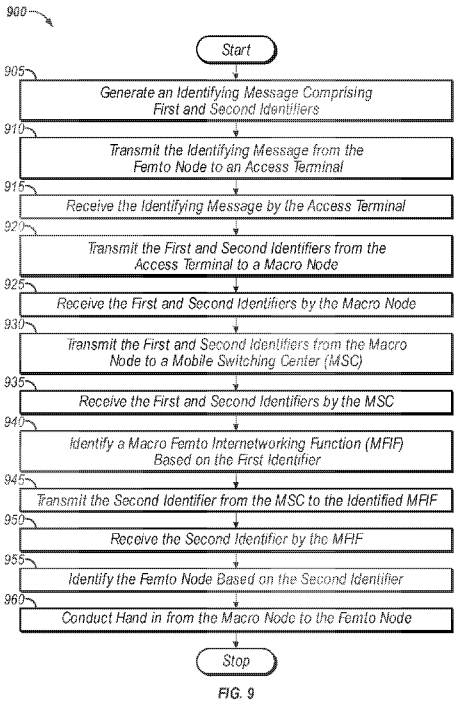


FIG. 9

(57) Abstract: Systems and methods for performing a handoff of an access terminal from a macro node to a femto node are disclosed. In one embodiment, the femto node is configured to transmit a predetermined signal for determining signal quality and an identifier that uniquely identifies the femto node to the access terminal. The access terminal is configured to transmit the identifier to the macro node. The femto node is identified as a hand in target based on the transmitted identifier and the macro node is configured to hand in the access terminal to the femto node.

WO 2010/009162 A1

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))*