

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 December 2009 (23.12.2009)

(10) International Publication Number
WO 2009/155278 A1

- (51) International Patent Classification:
H04W 4/22 (2009.01) *H04W 64/00* (2009.01)
- (21) International Application Number:
PCT/US2009/047484
- (22) International Filing Date:
16 June 2009 (16.06.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/061,981 16 June 2008 (16.06.2008) US
61/091,250 22 August 2008 (22.08.2008) US
12/483,946 12 June 2009 (12.06.2009) US
- (71) Applicant (for all designated States except US): **QUALCOMM INCORPORATED** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **EDGE, Stephen, W.** [US/US]; 5775 Morehouse Drive, San Diego, CA
- 92121 (US). **BURROUGHS, Kirk, Allan** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).
- (74) Agent: **CHENG, Xue Ming, Jimmy**; 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,

[Continued on next page]

(54) Title: LOCATING EMERGENCY CALLS VIA FEMTO ACCESS POINTS

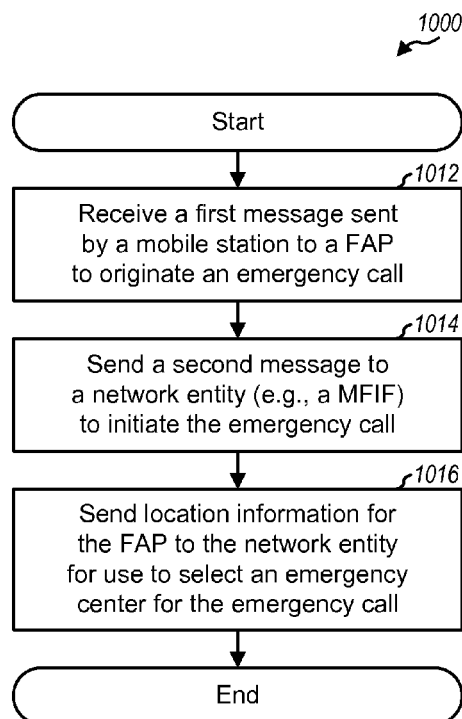


FIG. 10

(57) Abstract: Techniques for routing an emergency call originated by a mobile station via a femto access point (FAP) in a wireless network and for locating the mobile station are described. In an aspect, the emergency call may be routed to an appropriate emergency center based on location information for the FAP. In one design, the location information for the FAP may include a macro cell identity (ID) and/or a macro Mobile Switching Center (MSC) ID determined based on the FAP location. The macro cell ID and/or the macro MSC ID may be assigned to the FAP and used to access a database, which may store routing information for emergency centers versus cell IDs and MSC IDs. In another design, the location information for the FAP may include a location estimate for the FAP. The location estimate may be used to access a geographic database, which may store routing information for emergency centers for different geographic areas.



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).

— *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))*

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii))*