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

(19) World Intellectual Property Organization
International Bureau

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

PCT

(10) International Publication Number
WO 2009/155573 A1

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

(21) International Application Number:
PCT/US2009/048051

(22) International Filing Date:
19 June 2009 (19.06.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/074,114	19 June 2008 (19.06.2008)	US
61/087,592	8 August 2008 (08.08.2008)	US
61/156,805	2 March 2009 (02.03.2009)	US
12/486,650	17 June 2009 (17.06.2009)	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)*: **PRAKASH, Rajat** [IN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **GUPTA, Rajarshi** [IN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **AGASHE, Parag, A.** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **KITAZOE, Masato** [US/JP]; 5775 Morehouse Drive, San Diego, CA 92121 (US). **MEYLAN, Arnaud** [CH/FR]; 5775 Morehouse, San Diego, CA 92121 (US). **HORN, Gavin, B.** [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, 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))*

[Continued on next page]

(54) **Title**: ACCESS TERMINAL ASSISTED NODE IDENTIFIER CONFUSION RESOLUTION USING A TIME GAP

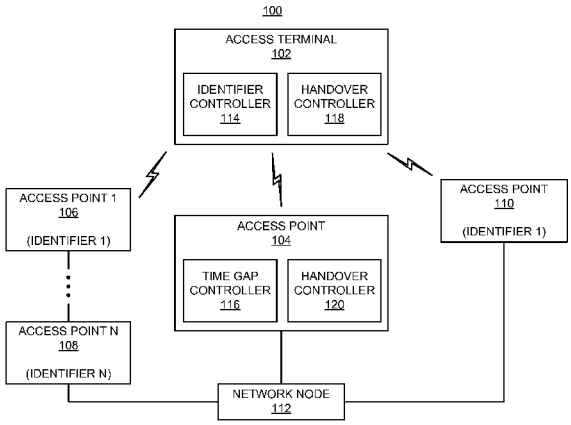

FIG. 1

(57) **Abstract**: Confusion resulting from assigning the same node identifier to multiple nodes is resolved through the use of confusion detection techniques and the use of unique identifiers for the nodes. In some aspects a network may provide a time gap (e.g., an asynchronous time gap) during which an access terminal may temporarily cease monitoring transmissions from a source node so that the access terminal may acquire a unique identifier from a target node. In some aspects an access terminal may commence handover operations at a target node after determining whether the access terminal is allowed to access the target node. In some aspects a source node may prepare several target nodes for potential handover in the event confusion is detected or likely. Here, the source node may send information relating to the preparation of the potential target nodes to the access terminal whereby the access terminal uses the handover preparation information to initiate a handover at that target node.

WO 2009/155573 A1

— *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))*