

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2007 (05.07.2007)

PCT

(10) International Publication Number
WO 2007/075671 A1

(51) International Patent Classification:
H04Q 7/38 (2006.01) **H04L 12/56** (2006.01)

(21) International Application Number:
PCT/US2006/048410

(22) International Filing Date:
20 December 2006 (20.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/316,602 22 December 2005 (22.12.2005) US

(71) Applicant (for all designated States except US): **QUALCOMM FLARION TECHNOLOGIES, INC.** [US/US];
Bedminster One, 135 Route 202/206 South, Bedminster,
NJ 07921 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LAROIA, Rajiv**
[IN/US]; 455 Somerville Road, Basking Ridge, NJ 07920
(US). **ANIGSTEIN, Pablo** [AR/US]; 50 Maple Avenue,
Apt. 108, Springfield, NJ 07081 (US). **PARIZHISKY,**
Vladimir [US/US]; 415 Central Park West, Apt. 10E,
New York, NY 10025 (US). **SRINIVASAN, Murari**
[IN/US]; 1465 Channing Avenue, Palo Alto, CA 94301
(US). **TSIRTSIS, George** [BR/US]; 29 West 8th Street,
Apt. 4R, New York, NY 10011 (US).

(74) Agent: **STRAUB, Michael, P.**; STRAUB &
POKOTYLO, 620 Tinton Avenue, Bldg. B, 2nd Floor,
Tinton Falls, NJ 07724-3260 (US).

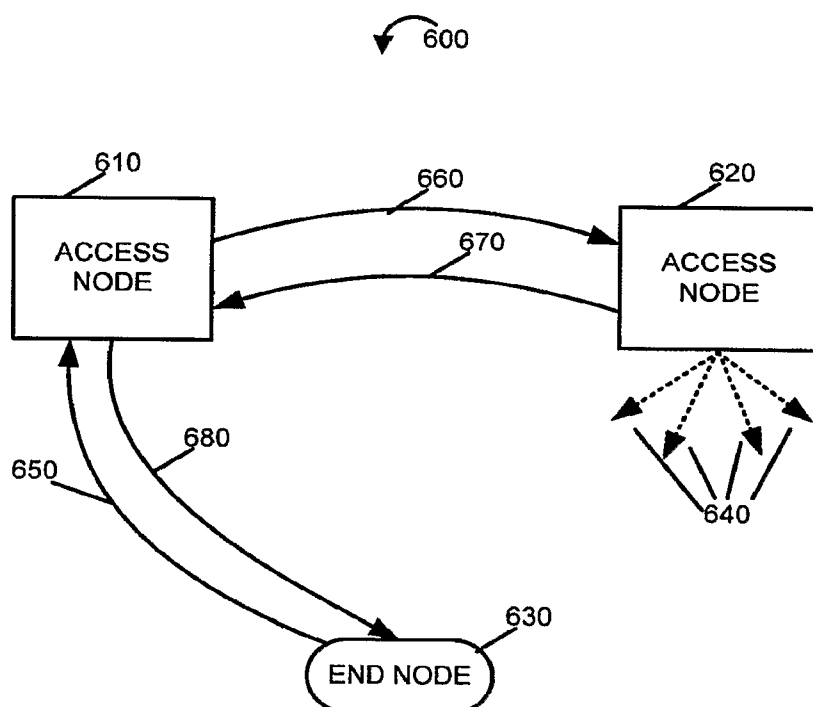
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS,
LT, LU, LV, LY, MA, MD, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: COMMUNICATIONS METHOD AND APPARATUS USING PHYSICAL ATTACHMENT POINT IDENTIFIERS



(57) Abstract: Methods and apparatus for routing messages between an end node and an access node via another access node are described. Physical layer identification information is used when identifying a remote, e.g., adjacent, access node as a message destination. Thus, when a connection identifier based on one or more physical layer identifiers is available to a wireless terminal, e.g., from one or more downlink signals received from a destination access node, the wireless terminal can use the connection identifier corresponding to the destination node to route a message via an access node with which it has an established uplink connection. Such connection identifier information can be used even when other addressing information, e.g., network layer address information, associated with the destination access node, may not be available to the

wireless terminal.

WO 2007/075671 A1



-
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*