

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 January 2008 (24.01.2008)

PCT

(10) International Publication Number
WO 2008/011027 A3

(51) International Patent Classification:
G01R 31/08 (2006.01)

(21) International Application Number:
PCT/US2007/016198

(22) International Filing Date: 17 July 2007 (17.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/807,535 17 July 2006 (17.07.2006) US

(71) Applicant (for all designated States except US): **CAMI-ANT, INC.** [US/US]; 200 Nickerson Road, Marlborough, MA 01752 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **RILEY, Yusun, Kim** [US/CA]; 630 Hemenway Street, Marlborough, MA 01762 (US).

(74) Agents: **BEVILACQUA, Michael, J.** et al.; Wilmer Cutler Pickering Hale And Dorr LLP, 60 State Street, Boston, MA 02109 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

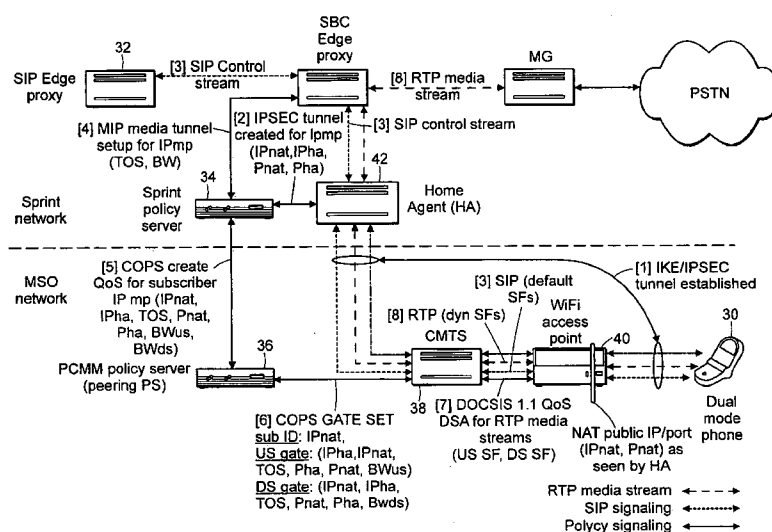
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
10 April 2008

(54) Title: COMBOPHONE WITH QOS ON CABLE ACCESS



(57) Abstract: A method of providing QoS to a session from a client to a first network includes providing data packets from the client to be conveyed in a session from the client to a first network, inserting each of the data packets into an encapsulating packet, and transmitting the encapsulating packets through the second network to the first network, forming a tunnel through the second network. The method includes receiving the encapsulating packets at a terminating device in the first network. The terminating device removes the encapsulating headers to recover the data packets. The method includes determining an association between the packet headers of the data packets and the encapsulating headers, identifying data packets requiring QoS, and using the association to identify encapsulating packets corresponding data packets requiring Quality of Service. The method includes applying QoS to the encapsulating packets, corresponding to the session of data packets requiring the QoS, being conveyed through the tunnel.

WO 2008/011027 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/16198

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G01R 31/08 (2007.10)

USPC - 370/235

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - G01R 31/08; G06F 11/00, 15/16; G08C 15/00; H04J 1/16, 3/14; H04L 1/00, 12/66, 12/28, 12/56 (2007.10)

USPC - 370/235, 352, 389; 709/203

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Database: PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0213210 A1 (DUBE et al) 28 October 2004 (28.10.2004) entire document	1-20
A	US 2003/0079018 A1 (LOLAYEKAR et al) 24 April 2003 (24.04.2003) entire document	1-20

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 December 2007

Date of mailing of the international search report

30 JAN 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774