

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/099197 A1

(51) International Patent Classification⁷: **H04L 12/56**,
H04J 3/02

(21) International Application Number:
PCT/US2005/009998

(22) International Filing Date: 25 March 2005 (25.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/557,064 26 March 2004 (26.03.2004) US

(71) Applicant (for all designated States except US): **LA JOLLA NETWORKS, INC.** [US/US]; Attention: James C. Tiernan, President, 2223 Avenida De La Playa, Suite 212, La Jolla, CA 92037 (US).

(71) Applicants and

(72) Inventors: **TIERNAN, James, C.** [US/US]; 930 Via Mil Cumbres, #10, Solana Beach, CA 92075 (US). **FEL-LOWS, Jonathan** [US/US]; 13161 Shalimer Place, Del Mar, CA 92014 (US).

(74) Agent: **KLEINKE, Bernard, L.**; Duckor Spradling Metzger & Wynne, A Law Corporation, 401 West A Street, Suite 2400, San Diego, CA 92101-7915 (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

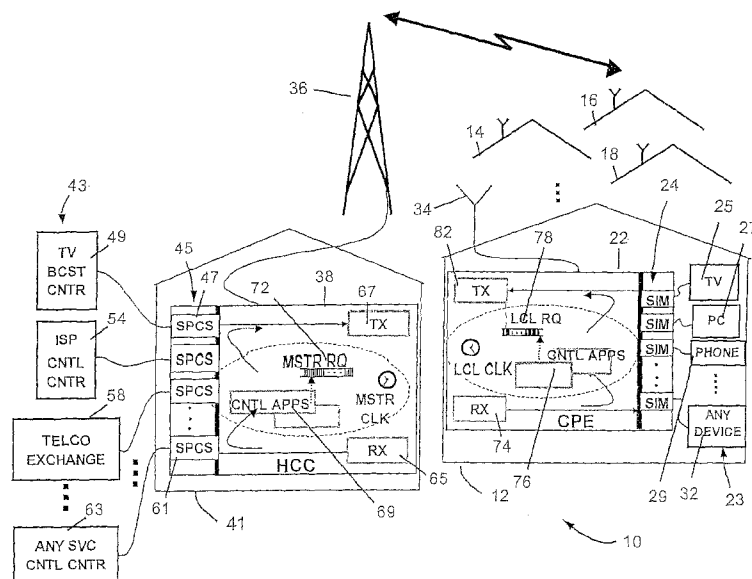
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, 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: SYSTEM AND METHOD FOR SCALABLE MULTIFUNCTIONAL NETWORK COMMUNICATION



(57) Abstract: A system (10) and method for scalable multifunctional network communication between presentation devices (23) and service providers (43) are disclosed. A group of consumer premise equipment (CPE) (21) units are coupled to the presentation devices (23), and a headend control computer (HCC) (38) receives upstream messages from the CPE (21) units. A group of service provider control subsystem interface (SPCS) (45) between the HCC (38) and the service providers (43). The HCC (38) receives messages from the CPE (21) units and transports them to SPCS (45), and the HCC (38) receives messages from the SPCS (45) and transports them to the CPE (21) units.

WO 2005/099197 A1



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.