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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 May 2002 (16.05.2002)

PCT

(10) International Publication Number
WO 02/39627 A2

(51) International Patent Classification[7]: H04H

(21) International Application Number: PCT/US01/32315

(22) International Filing Date: 17 October 2001 (17.10.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/709,948	10 November 2000 (10.11.2000)	US
09/841,792	24 April 2001 (24.04.2001)	US
09/870,879	30 May 2001 (30.05.2001)	US
09/892,015	25 June 2001 (25.06.2001)	US
09/892,017	25 June 2001 (25.06.2001)	US
09/902,503	9 July 2001 (09.07.2001)	US
09/933,696	20 August 2001 (20.08.2001)	US
09/967,749	27 September 2001 (27.09.2001)	US

(71) Applicant: **PREDIWAVE CORP.** [US/US]; 48501 Warm Springs Blvd., Suite 107, Fremont, CA 94539 (US).

(72) Inventor: **HOANG, Khoi**; 5706 Dalton Creek Way, Pleasanton, CA 94566 (US).

(74) Agent: **COLEMAN, Brian, R.**; Oppenheimer Wolff & Donnelly LLP, P.O. Box 10356, Palo Alto, CA 94303 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, 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, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

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.

WO 02/39627 A2

(54) Title: DIGITAL DATA-ON-DEMAND BROADCAST CABLE MODEM TERMINATION SYSTEM

(57) Abstract: The present invention teaches methods and systems for providing a cable modem termination system (CMTS) for enabling a data-on-demand (DOD) digital broadcast system to provide digital DOD services via a communications medium over one or more channels, the cable modem termination system comprising: a communications network interface for receiving at least one DOD service from the DOD digital broadcast system, wherein the DOD service is formatted as a stream of data blocks arranged in a schedule such that a first data block of the DOD service may be accessed at any selected time period; a uni-directional network interface for providing the stream of data blocks to a plurality of users, wherein th eusers may access the first data block at any time period and may access subsequent data blocks of the stream of data blocks thereby accessing the at least one DOD service.