

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

(10) International Publication Number
WO 01/48983 A3

(51) International Patent Classification⁷: **H04L 12/56**,
12/28

(21) International Application Number: PCT/US00/35490

(22) International Filing Date:
28 December 2000 (28.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/474,039 28 December 1999 (28.12.1999) US

(71) Applicant: **BROADBAND ACCESS SYSTEMS, INC.**
[US/US]; 8 Technology Drive, Westborough, MA 01752
(US).

(72) Inventors: **NIKOLICH, Paul, E.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **CHINNASWAMY, Kumar**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **DORMITZER, Paul, H.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **ENGELSE, Willem, A., H.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **MAHLA, Walter, G.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **NGAI, Howard**; Broadband Access Systems,

Inc., 8 Technology Drive, Westborough, MA 01752 (US). **PAOLINO, David, R.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **PEARCE, Kirk, B.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US). **SARKAR, Jyotirmoy, B.**; Broadband Access Systems, Inc., 8 Technology Drive, Westborough, MA 01752 (US).

(74) Agents: **COHEN, Jerry et al.**; Perkins, Smith & Cohen, LLP, One Beacon Street, Boston, MA 02108 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

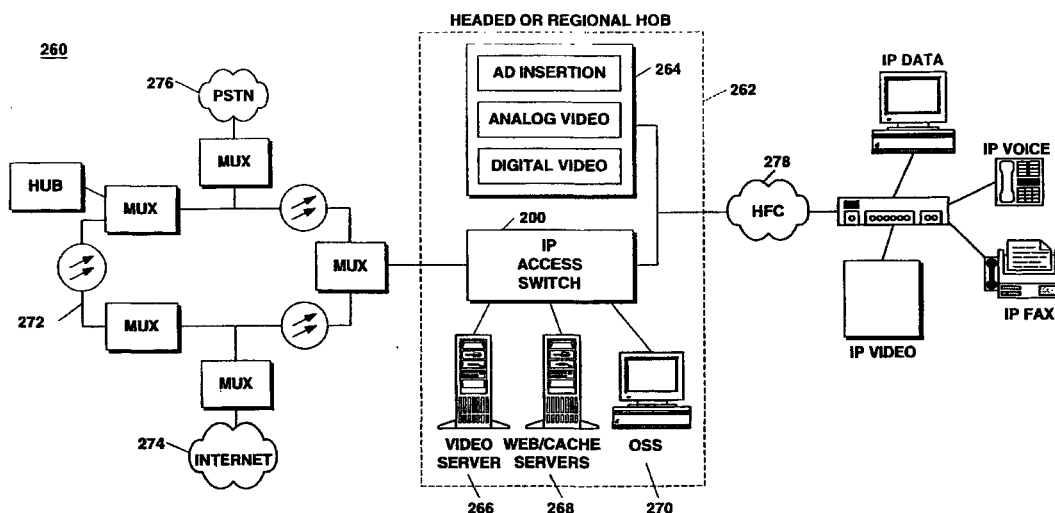
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML,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

Published:
— with international search report

(88) Date of publication of the international search report:
7 March 2002

[Continued on next page]

(54) Title: SYSTEM AND PROCESS FOR HIGH-AVAILABILITY, DIRECT, FLEXIBLE AND SCALABLE SWITCHING OF DATA PACKETS IN BROADBAND NETWORKS



(57) Abstract: A system and process for directly and flexibly switching connections of data packet flows between nodes of a broadband data processing system and network. The system acts as a single IP switch.



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.