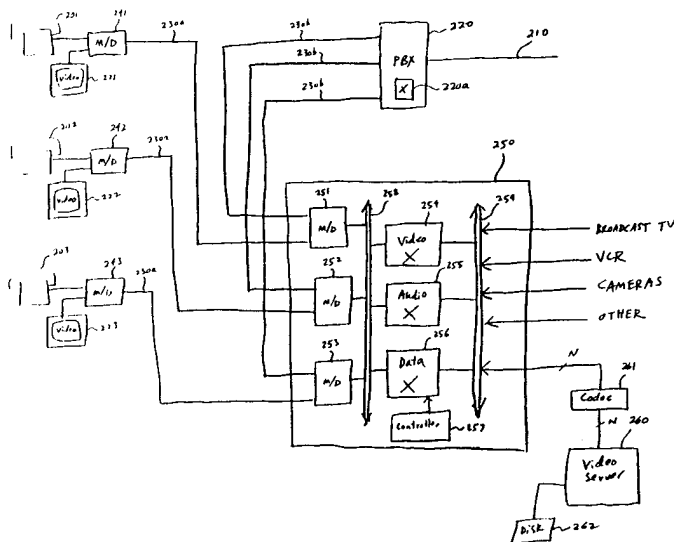




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(21) International Application Number: PCT/US97/23790 (22) International Filing Date: 31 December 1997 (31.12.97) (30) Priority Data: 08/777,881 31 December 1996 (31.12.96) US (71) Applicant: OBJECTIVE COMMUNICATIONS, INC. [US/US]; 75 Rochester Avenue, Portsmouth, NH 03801 (US). (72) Inventors: ROGERS, Steven; Objective Communications, Inc., 75 Rochester Avenue, Portsmouth, NH 03801 (US). HOPPEs, Brian; Objective Communications, Inc., 75 Rochester Avenue, Portsmouth, NH 03801 (US). KOENIG, Ed; Objective Communications, Inc., 75 Rochester Avenue, Portsmouth, NH 03801 (US). (74) Agents: BANNER, Pamela, I. et al.; Banner & Witcoff, Ltd., 11th floor, 1001 G Street, N.W., Washington, DC 20001-4597 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 15 October 1998 (15.10.98)

(54) Title: INTEROFFICE BROADBAND COMMUNICATION SYSTEM USING TWISTED PAIR TELEPHONE WIRES

**(57) Abstract**

A system including a broadband switch (250) includes a controller (257) which coordinates video call set-up and a switch (254) for connecting various phone line together through diplexers. The system permits video telephone conferencing and other video related applications to be performed over ordinary telephone wires. Two diplexer/modems are typically provided for each user: one (241) at the user's telephone jack and another (251) at the central PBX location (250) for that user's telephone line. The PBX connections can usually be made in a central wiring closet. A video server (260) can also be provided which retrieves video images from disk to provide on demand to users. The existing PBX handles the switching of normal telephone audio signals, and a broadband data switch handles the switching or broadband signals over the same telephone wires that the PBX uses.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/23790

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :H04N 7/14

US CL :348/16; 379/93.21

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)

U.S. : 348/14-17; 379/90.01, 93.01, 93.14, 93.17, 93.21, 202; 370/260, 265, 460

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
A	US 4,564,940 A (YAHATA) 14 January 1986, figure 1 and abstract.	1-40
A	US 5,247,347 A (LITTERAL et al.) (21 September 1993, figure 2 and abstract.	1-40



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Date of the actual completion of the international search

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Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

STEPHEN PALAN

Telephone No. (703) 305-6000