Title (en)
VARIABLE BANDWIDTH SWITCHING SYSTEM.

Title (de)
SCHALTSYSTEM MIT VARIABLER BANDBREITE.

Title (fr)
SYSTEME DE COMMUTATION A LARGEUR DE BANDE VARIABLE.

Publication
EP 0142551 A4 19880616 (EN)

Application
EP 84902140 A 19840502

Priority
- US 49155183 A 19830504
- US 58206984 A 19840221
- US 58218284 A 19840221

Abstract (en)
[origin: WO8404435A1] A communications system that improves upon the availability of communications paths between devices and simplifies the connectivity requirements to communicate data and control information to and from a remote station (11). System nodes (21) are provided which are disposed along a time multiplex network signal stream. The nodes (21) serve to interface remote stations (11) to the network signal stream (25A, 25B) and may also switch information to different stations (11) connected to the same node (21). The nodes (21) are operative to allocate a variable bandwidth of the network signal stream for data communications between devices connected to different nodes. The nodes (21) include switching devices that may be configured to accomodate stations (11) that operate at different speeds. Allocation of bandwidth may be dynamically varied such that system resources are not unneccessarily diverted. Control of bandwidth allocation and internal switching within the node is accomplished via control information communicated to and from the node. Such control information may be contained within the network signal stream and decoded by the node (21) or communicated to the node (21) via a dedicated control communications line. Control information may be encoded into the signal stream communicated between the system node (21) and the remote station (11). Thus, communication of data and control signals between the stations (11) and the system node (21) does not require complex wiring. Accordingly, individual stations (11) may be more conveniently located.

IPC 1-7
H04J 3/16

IPC 8 full level
H04L 5/24 (2006.01); H04L 12/42 (2006.01); H04L 25/49 (2006.01); H04M 9/02 (2006.01)

CPC (source: EP)
H04L 5/24 (2013.01); H04L 12/42 (2013.01); H04L 25/4904 (2013.01); H04M 9/025 (2013.01); H04Q 2213/13332 (2013.01)

Citation (search report)
- [X] PROCEEDINGS NATIONAL TELECOMMUNICATIONS CONFERENCE, 29th November - 3rd December 1981, New Orleans, vol. 4, pages G1.2.1 - G1.2.5, IEEE, New York, US; T. MATSUDA et al.: "General purpose local network using optical loop highway"
- [X] PROCEEDINGS 1982 INTERNATIONAL SYMPOSIUM ON SUBSCRIBER LOOPS AND SERVICES, 20th-24th September 1982, Toronto, pages 35-39, IEEE, New York, US; R. RENOULIN: "An integrated service local network for distributed access of heterogeneous terminals made for firm management the project CARTHAGE"
- [X] COMPUTER COMMUNICATION REVIEW, vol. 12, no. 2, April 1982, pages 6-19, A.C.M., New York, US; W. GIOZZA et al.: "FIPNET: a 10 MBPS fiber optics local network"
- [Y] PROCEEDINGS 1982 INTERNATIONAL SYMPOSIUM ON SUBSCRIBER LOOPS AND SERVICES, 20th-24th September 1982, Toronto, pages 62-65; G.M.J. HAVERMANS et al.: "Digital subscriber lines to PRX/D"
- [Y] PROCEEDINGS OF THE IEEE, vol. 65, no. 9, September 1977, pages 1283-1295; M.J. ROSS et al.: "Design approaches and performance criteria for integrated voice/data switching"

Designated contracting state (EPC)
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)
WO 8404435 A1 19841108; AU 2963384 A 19841119; AU 2965584 A 19841119; AU 570983 B2 19880331; AU 571236 B2 19880414; CA 1242819 A 19881004; CA 1243787 A 19881025; EP 0141852 A1 19850522; EP 0141852 A4 19880616; EP 0142551 A1 19850529; EP 0142551 A4 19880616; ES 532231 A0 19850201; ES 532232 A0 19860201; ES 8503184 A1 19850201; ES 8604707 A1 19860201

DOCDB simple family (application)
US 8400676 W 19840502; AU 2963384 A 19840502; AU 2965584 A 19840502; CA 453459 A 19840503; CA 453460 A 19840503; EP 84902139 A 19840502; EP 84902140 A 19840502; ES 532231 A 19840504; ES 532232 A 19840504