

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 March 2004 (25.03.2004)

PCT

(10) International Publication Number
WO 2004/025414 A3

(51) International Patent Classification⁷: H04J 3/16

(74) Agents: DISCHER, Gregory, S. et al.; Hale and Dorr LLP, The Willard Office Building, 1455 Pennsylvania Avenue, NW, Washington, DC 20004 (US).

(21) International Application Number:
PCT/US2003/028667

(22) International Filing Date:
12 September 2003 (12.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/410,006 12 September 2002 (12.09.2002) US
60/479,912 20 June 2003 (20.06.2003) US
60/496,991 22 August 2003 (22.08.2003) 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, EC, 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

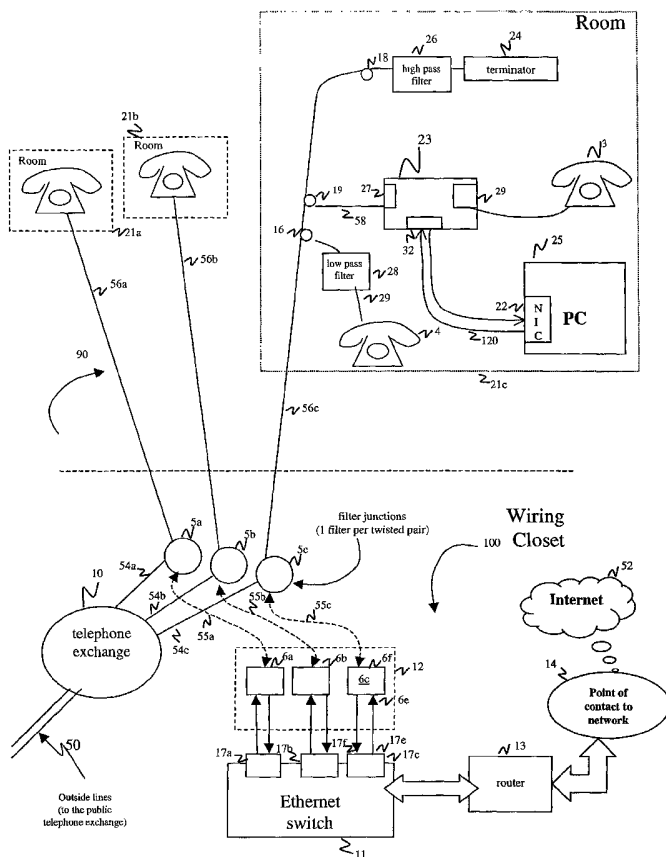
(71) Applicant: **INLINE CONNECTION CORPORATION**
[US/US]; 2642 Pershing #P4, Arlington, VA 22201 (US).

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

(72) Inventor: **GOODMAN, David, D.**; 730 N. Danville Street, Arlington, VA 22201 (US).

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR 10BASET ETHERNET COMMUNICATION OVER A SINGLE TWISTED PAIR UTILIZING INTERNAL POWER SOURCES



(57) Abstract: The present invention relates generally to a system (90) and method that allows multiple computers (25), optionally separated by a distance greater than specified in the IEEE 802.3 standard, to utilize an existing wiring infrastructure to obtain a high speed connection to a network such as the Internet.

WO 2004/025414 A3



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

(88) Date of publication of the international search report:

12 August 2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28667

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04J 3/16 US CL : 370/468 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. : 370/468 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 No.
X, E	US 6,687,261 B1 (SKEBA et al.) 03 February 2004 (03.02.2004), see column 2, line 15 to column 4, line 56.	1
A, E	US 6,731,678 B1 (WHITE et al.) 04 May 2004 (04.05.2004), see the whole reference.	1
A, E	US 6,738,382 B1 (WEST et al.) 18 May 2004 (18.05.2004), see the whole reference.	1
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 27 May 2004 (27.05.2004)		Date of mailing of the international search report 18 JUN 2004
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Ben Michelle R. Egan</i> Zarni Maung Telephone No. 703-305-3900