(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 22 August 2002 (22.08.2002)

PCT

(10) International Publication Number WO 02/065749 A3

(51) International Patent Classification⁷: H01P 5/12

(21) International Application Number: PCT/US02/03492

(22) International Filing Date: 6 February 2002 (06.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/780,585 9 February 2001 (09.02.2001) US

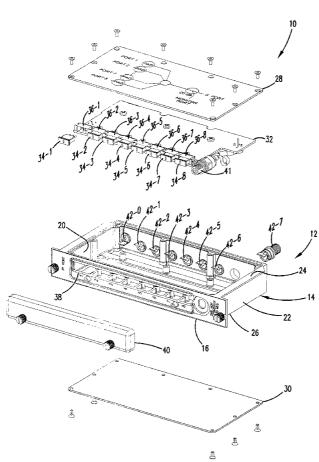
(71) Applicant: ADC TELECOMMUNICATIONS, INC. [US/US]; 13625 Technology Drive, Eden Prairie, MN 55344-2252 (US).

(72) Inventors: LOEFFELHOLZ, Todd, A.; 10005 Kingman Lane, Minnetonka, MN 55305 (US). MCCLELLAN, Terry, E.; 9090 Peony Lane N., Maple Grove, MN 55301 (US). MANDERFIELD, Sara; 1849 Munster Avenue, St. Paul, MN 55116 (US). BLUBAND, Zakhary; 11484 Fairfield Road #401, Minnetonka, MN 55305 (US). PETERSON, Par, G.; 10321 Nottingham Trail, Eden Prairie, MN 55347 (US).

- (74) Agent: BRUESS, Steven, C.; Merchant & Gould P.C., P.O. Box 2903, Minneapolis, MN 55402-0903 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), 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, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: PLUG CONNECTOR FOR CABLE TELEVISION NETWORK AND METHOD OF USE



(57) Abstract: A telecommunications apparatus (10) for use with a plug (34-1) having at least first (308), second (308) and third (310) pins. The telecommunications apparatus (10) includes a plug connector (36-1) for receiving the plug (34-1). The plug connector (36-1) includes at least first (302), second (302) and third (305) electrical contacts for electrically contacting the first (308), second (308) and third (310) pins, respectively, when the plug (34-1) is inserted in the plug connector (36-1). The plug connector (36-1) also includes an electrical bypass pathway (304) that: i) electrically connects the first and second electrical contacts (302) when the plug (34-1) is fully removed from the plug connector (36-1) such that a signal can enter the plug connector (36-1) through the first contact (302), pass through the by-pass pathway (304) to the second contact (302), and exit the plug connector (36-1) through the second contact (302); and ii) does not electrically connect the first and second electrical contacts (302) when the plug (34-1) is fully inserted within the plug connector (36-1) such that a signal can enter the plug connector (36-1) through the first contact (302), pass through the plug to the second contact (302), and exit the plug connector (36-1) through the second contact (302).



(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, 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).

(88) Date of publication of the international search report: 24 April 2003

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.

Published:

— with international search report

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/03492

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01P 5/12				
US CL : 333/109, 100, 124, 125				
According to International Patent Classification (IPC) or to both national classification and IPC				
	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 333/109, 100, 124, 125				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.	
Y	US 5,909,155 A (ANDERSON et al) 01 June 1999 (01.06.1999), see entire document.	1-21, 24-34	
A			22, 23	
Y	US 5,635,881 A (ROMEREIN et al.) 03 June 1997 (03.06.1997), column 9, lines 1-67.		1-21, 24-34	
Y	US 5,592,545 A (HO et al.) 07 January 1997 (07.01.1997), column 6, line 25.		24, 30	
	documents are listed in the continuation of Box C.	See patent family annex.		
* S	pecial categories of cited documents:	"T" later document published after the inter date and not in conflict with the applica		
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve		
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step		
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent f	amily	
Date of the actual completion of the international search		Date of mailing of the international search report 0.6 JAN 2003		
07 May 2002 (07.05.2002) Name and mailing address of the ISA/US				
Commissioner of Patents and Trademarks Box PCT		Damian E. Cathey Authorized officer Sharm 5. Hype		
Washington, D.C. 20231		Daiman B. Camey		
Facsimile No. (703)305-3230		Telephone No. 703-308-0956		

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/03492

Continuation of Item 4 of the first sheet: Greater than 2-7 words New Title				
Plug Connector For Cable Television Network				
ı				
· ·				
·				

Form PCT/ISA/210 (second sheet) (July 1998)