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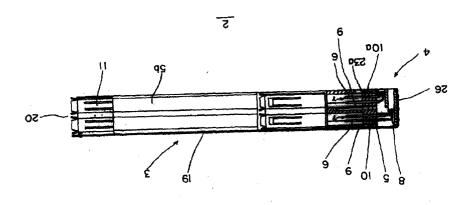
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(54) Card connector for receiving a PC card

(57) Disclosed is an improved card connector (2) for receiving at least one PC card (1). The card connector includes a card connector section (3) and a substrate connector section (4) wherein the card connector section (3) includes an insulating housing (5) having a lateral array (7) of pin terminals (6) to mate with corresponding receptacles of the card and grounding terminals (9) to contact the outer casing of the card. The insulating housing further includes a rearwardly extending alignment extension (28) having a leg portion (29) ex-

tending downwardly therefrom. The pin terminals include connections tails (8) arranged in a single row along the leg portion (29) of the alignment section (28). The substrate connector section (4) includes signal terminals (22) having engagement tails (22a) with a "C"-shaped contact section for receiving a respective connection tail of the pin terminal of the card connector section along with an adjacent leg portion (29) of the alignment section (28). This arrangement permits the significant reduction of the longitudinal size of the card connector.

FTG. 1





EUROPEAN SEARCH REPORT

Application Number

EP 01 10 7686

		ERED TO BE RELEVANT			
Category	Citation of document with it of relevant pass	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
Y			1-7	H01R12/16 G06K7/00	
Y	US 4 818 239 A (ERK 4 April 1989 (1989- * column 4, line 37		1-7		
Y	PATENT ABSTRACTS OF vol. 018, no. 494 (14 September 1994 (& JP 06 162282 A (F 10 June 1994 (1994- * abstract *	P-1800), 1994-09-14) UJITSU LTD),	3,5-7		
P,X	EP 1 014 503 A (MOL 28 June 2000 (2000- * the whole documen	06-28)	1-8		
A	EP 0 863 584 A (MOL 9 September 1998 (1 * page 2, column 5, figures 3-6 *	998-09-09)	1-8	TECHNICAL FIELDS SEARCHED (Int.CI.7) HO1R G06K	
	The present search report has b	peen drawn up for all claims			
	Place of search	Date of completion of the search	<u> </u>	Examiner	
	THE HAGUE	8 January 2002	Cri	qui, J-J	
X : parti Y : parti docu A : techi O : non-	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot iment of the same category nological backgroundwritten disclosure mediate document	T : theory or principle E : earlier patent doc after the filing dat D : document cited in L : document cited for & : member of the sa document	cument, but public e n the application or other reasons	shed on, or	

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 10 7686

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-01-2002

Patent document cited in search report			Publication date		Patent family member(s)	Publication date
US	5688130	Α	18-11-1997	NONE		
US	4818239	Α	04-04-1989	US	4857017 A	15-08-1989
JP	06162282	А	10-06-1994	JP	2827767 B2	25-11-1998
EP	1014503	A	28-06-2000	CN EP JP US	1264934 A 1014503 A2 2000285995 A 6247969 B1	30-08-2000 28-06-2000 13-10-2000 19-06-2001
ĒΡ	0863584	A	09-09-1998	JP CN EP TW US	10255881 A 1197311 A 0863584 A2 419161 Y 5984698 A	25-09-1998 28-10-1998 09-09-1998 11-01-2001 16-11-1999

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