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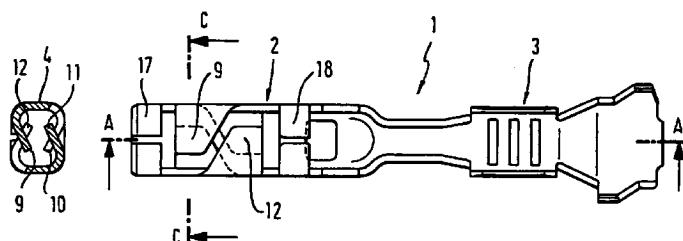
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(54) Plug-in connector sleeve

(57) Plug-in connector sleeve (1) having a plug-in region (2) and a conductor connection region (3), the plug-in region having a box-shaped housing (4) with two side walls (5, 6), a floor (7) and a roof (8), at least one contact segment (9 to 13) projecting into the housing in the roof region and in the floor region, in each case. In the direction of insertion, the plug-in connector sleeve firstly has on the first side wall (5) a contact segment (9) in the roof region, which projects inwards with its free

end (13), and a contact segment (11) in the floor region, which projects inwards with its free end (14) from the second wall (6), and as, further in the direction of insertion, on the first side wall (5) a contact segment (10) projecting inwards with its free end (15) in the floor region, and has a contact segment (12) in the roof region which projects inwards with its free end (16) from the second side wall (6).

Fig. 1a





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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 3 414 871 A (TUCHEL ULRICH) 3 December 1968 (1968-12-03)	1-6	H01R13/115 H01R13/18
Y	* column 4, line 17 - line 22; figures 5,6 *	7-12	

Y,D	DE 21 48 805 A (GROTE & HARTMANN) 12 April 1973 (1973-04-12) * page 4, line 6 - line 18; figures 1-3 *	7-12	

Y	US 5 094 636 A (LOLIC SBROSLAV ET AL) 10 March 1992 (1992-03-10) * column 3, line 50 - column 4, line 23; figures 2,4 *	8-12	

P,A	WO 97 48149 A (FRAMATOME CONNECTORS INT ;MUELLER STEFFEN (DE); PREBOECK FRIEDRICH) 18 December 1997 (1997-12-18) * page 4, line 7 - page 5, line 16; figures 2A,2B *	1-12	

			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	22 June 2000		Criqui, J-J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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

EP 98 11 1974

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22-06-2000

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3414871	A	03-12-1968		DE 1590632 A CH 476404 A FR 89710 E		16-04-1970 31-07-1969
DE 2148805	A	12-04-1973		NONE		
US 5094636	A	10-03-1992		DE 8914951 U DE 59005195 D EP 0433610 A JP 3261080 A ZA 9009503 A		18-04-1991 05-05-1994 26-06-1991 20-11-1991 27-11-1991
WO 9748149	A	18-12-1997		DE 19653441 A BR 9709712 A EP 0904612 A		18-12-1997 10-08-1999 31-03-1999