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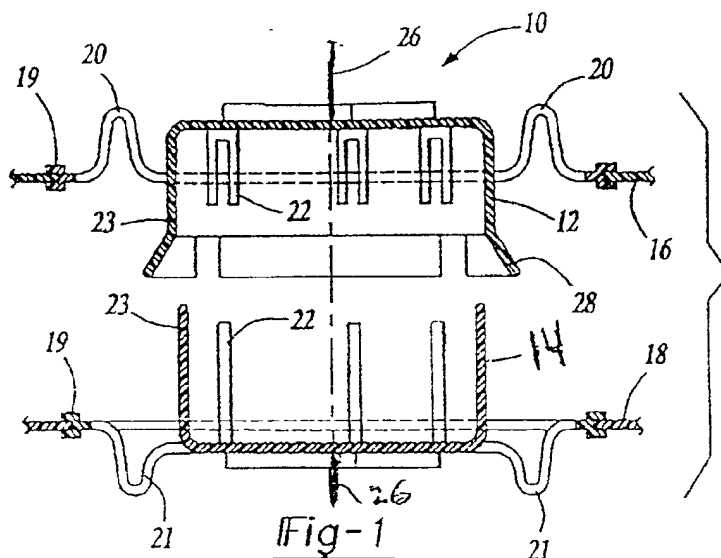
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(54) **Self aligning electrical connector**

(57) Several self aligning electrical connectors assemblies are disclosed. The assemblies include two halves which are connected together and in which at least one member is movable relative to the other during

connection. Spring members bias the two members to a desired position to ensure the two members are held in a desired position after connection, and returned from any position of movement that may have occurred during the connection.



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# EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 7992

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 4 909 748 A (YAZAKI) 20 March 1990 (1990-03-20)  * column 1, paragraph 2 * * column 2, line 65 - column 4, line 57; figures 1,2 *	1,2,4-6, 8-10,12, 13,15	H01R13/631
Y	---	3,7	
Y	EP 0 717 470 A (MOLEX) 19 June 1996 (1996-06-19) * column 4, paragraph 2 *	3	
Y	US 2 882 510 A (COLVIN) 14 April 1959 (1959-04-14) * figure 2 *	7	
A	US 5 480 328 A (SIEMENS) 2 January 1996 (1996-01-02) ---		
A	US 4 865 558 A (AMP) 12 September 1989 (1989-09-12) -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
Place of search		Date of completion of the search	Examiner
THE HAGUE		21 December 2000	Bertin, M
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EPO FORM 1503 03/82 (P4/C01)

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

EP 98 30 7992

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The members are as contained in the European Patent Office EDP file on  
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21-12-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4909748 A	20-03-1990	DE 3903839 A GB 2218576 A,B	17-08-1989 15-11-1989
EP 717470 A	19-06-1996	US 6017233 A JP 2724697 B JP 8255659 A KR 198774 B	25-01-2000 09-03-1998 01-10-1996 15-06-1999
US 2882510 A	14-04-1959	NONE	
US 5480328 A	02-01-1996	DE 9208703 U WO 9400894 A DE 59301744 D EP 0648382 A ES 2083870 T JP 7508123 T	28-10-1993 06-01-1994 04-04-1996 19-04-1995 16-04-1996 07-09-1995
US 4865558 A	12-09-1989	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82