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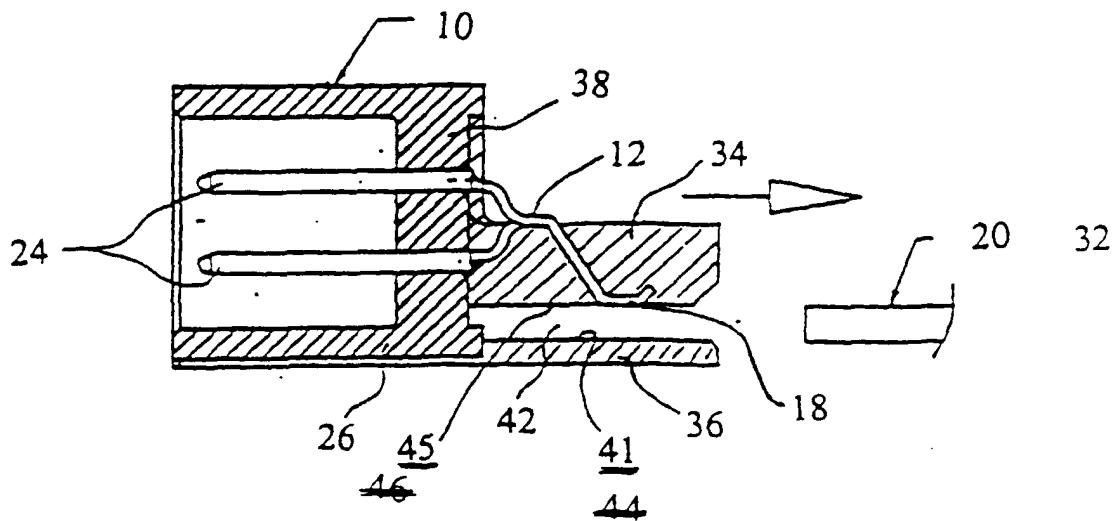
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### (54) Improved single-sided, straddle mount printed circuit board connector

(57) A single-sided, straddle mount printed circuit board edge connector (10) positively mechanically locks the connector to the circuit board (20) using a plurality of gripper arm assemblies (16) spaced along the connector housing. The gripper arm assemblies (16) each include an upper and lower gripper arm (34, 36) defining

therebetween a printed circuit board receiving space. The gripper arm assemblies (16) positively mechanically lock the printed circuit board to the connector without the use of through holes and screws. The connector overcomes the disadvantages of connector tilt problems, manufacturability and simplicity in assembling the connector and printed circuit board.



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## EUROPEAN SEARCH REPORT

Application Number  
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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	
Y A	GB 2 242 579 A (AMP) 2 October 1991 * page 4, line 6 - page 5, line 26; figures 1A-3B *	1 5,6	H01R23/70
Y A	EP 0 511 655 A (JAPAN AVIATION ELECTRONICS INDUSTRY) 4 November 1992 * column 8, line 3 - line 34 * * column 9, line 7 - line 19; figures 7-13 *	1 3	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
The present search report has been drawn up for all claims			
Place of search BERLIN	Date of completion of the search 26 May 1999	Examiner Alexatos, G	
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 98 30 0650

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2242579	A	02-10-1991	JP	3257776 A	18-11-1991
EP 511655	A	04-11-1992	DE	69216140 D	06-02-1997
			DE	69216140 T	15-05-1997
			US	5230633 A	27-07-1993