



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 921 610 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
16.05.2001 Bulletin 2001/20

(51) Int. Cl.⁷: **H01R 23/70**, H01R 43/02,
H01R 13/52

(43) Date of publication A2:
09.06.1999 Bulletin 1999/23

(21) Application number: **98122856.2**

(22) Date of filing: **01.12.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **03.12.1997 SG 0429197**

(71) Applicant: **MOLEX INCORPORATED**
Lisle Illinois 60532 (US)

(72) Inventors:

- **Ser Kiat Toh**
09-219 Singapore 680754 (SG)
- **Kin Chu**
Singapore 310079 (SG)

(74) Representative:

Blumbach, Kramer & Partner GbR
Patentanwälte,
Alexandrastrasse 5
65187 Wiesbaden (DE)

(54) **Electrical connector assembly for mounting on a printed circuit board and method for mounting it**

(57) An electrical connector assembly for facilitating mounting an electrical connector on a top surface of a printed circuit board. A connector housing is adapted for mounting at the edge of the circuit board. A plurality of terminals are mounted on the housing, with tail portions of the terminals projecting from the housing for solder termination to the top surface of the circuit board. A removable cover is mounted on the housing and includes a support arm portion projecting from the

housing and adapted for engagement with a bottom surface of the printed circuit board. With the circuit board so positioned, the board is sandwiched between the tail portions of the terminals and the support arm portion of the cover at the edge of the board. A method of fabricating an electrical connector and circuit board assembly is also disclosed.

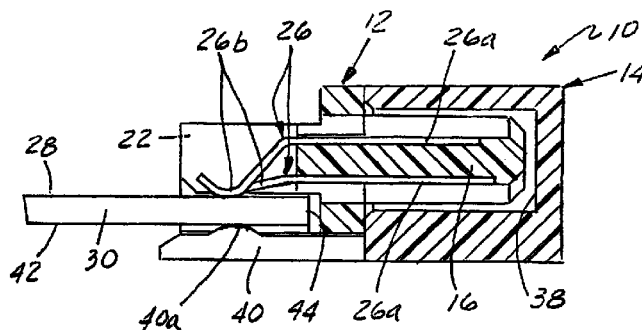


FIG. 4

EP 0 921 610 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 12 2856

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	EP 0 405 838 A (DU PONT) 2 January 1991 (1991-01-02)	1	H01R23/70
A	* the whole document *	2-13	H01R43/02
	----		H01R13/52
A	US 5 026 295 A (FONG JENNIFER L C ET AL) 25 June 1991 (1991-06-25)	1-13	
	* the whole document *		

A	US 5 249 977 A (TANAKA MITSUHO ET AL) 5 October 1993 (1993-10-05)	10-13	
	* abstract; claims; figures *		

A	US 5 242 311 A (SEONG AU Y C) 7 September 1993 (1993-09-07)	10-13	
	* abstract; claims; figures *		

A	WO 93 26063 A (BERG TECH INC ; LWEE NAI HOCK (US)) 23 December 1993 (1993-12-23)	12,13	
	* claims; figures *		

			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 March 2001	Examiner Durand, F
CATEGORY OF CITED DOCUMENTS 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 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			

EPO FORM 1503 03/02 (P04C01)

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

EP 98 12 2856

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.

21-03-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0405838 A	02-01-1991	AU 5803990 A	03-01-1991
		CA 2019437 A	31-12-1990
		DE 69017959 D	27-04-1995
		DE 69017959 T	12-10-1995
		HK 1000398 A	13-03-1998
		IE 902302 A	16-01-1991
		KR 9702791 Y	02-04-1997
		US 5106313 A	21-04-1992
		US 5096428 A	17-03-1992
US 5026295 A	25-06-1991	NONE	
US 5249977 A	05-10-1993	NONE	
US 5242311 A	07-09-1993	DE 69424959 D	27-07-2000
		DE 69424959 T	11-01-2001
		EP 0612204 A	24-08-1994
		JP 2582040 B	19-02-1997
		JP 6251851 A	09-09-1994
		KR 138834 B	15-06-1998
		SG 43049 A	17-10-1997
WO 9326063 A	23-12-1993	JP 6036850 A	10-02-1994
		DE 69328362 D	18-05-2000
		DE 69328362 T	07-12-2000
		EP 0646290 A	05-04-1995