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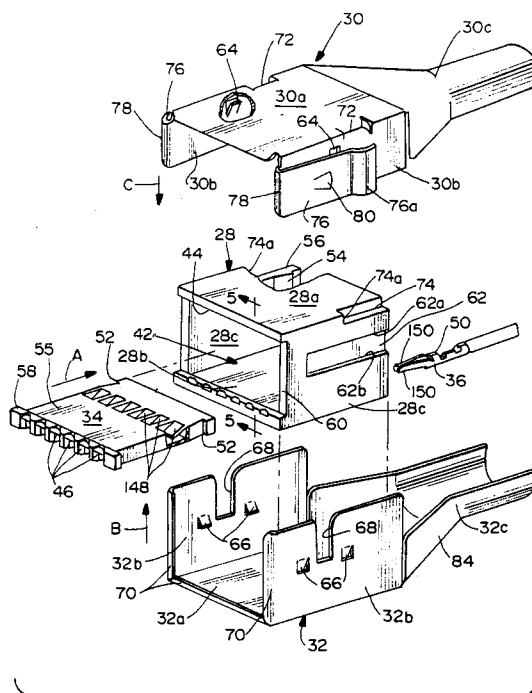
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H01R 43/16(22) Date of filing: **30.04.92**(30) Priority: **09.05.91 US 698746**(43) Date of publication of application:  
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**09.08.95 Bulletin 95/32**(71) Applicant: **MOLEX INCORPORATED**  
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**Patentanwälte**  
**Sonnenberger Strasse 100**  
**D-65193 Wiesbaden (DE)**(54) **Electrical connector assemblies.**

(57) An electrical connector system is disclosed and includes a plug connector assembly (20) mateable with a right angle header connector assembly (22). The plug connector assembly includes a plurality of terminal-receiving modules (34) juxtaposed in a nested array in a cavity (42) in a housing (28). The right angle header connector assembly includes a plurality of generally flat terminal modules (94) nested within a cavity (96) in a housing (90) in a side-by-side relationship. Each terminal module of the header connector assembly includes a plurality of generally coplanar flat terminals (102) surrounded and maintained in a desired array by an overmolded module encasement (110). The terminals have opposite terminal portions projecting from the encasement (98, 100). Both the plug connector assembly and the header connector assembly are shielded connectors and each include a shield (30, 32, 92) about a substantial portion of the respective connector assembly. The connector assemblies are held in mated condition by latches (76) which are actuated by a cover (26) mounted for relative movement about the plug connector assembly.

**FIG.3****EP 0 512 438 A3**



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## EUROPEAN SEARCH REPORT

Application Number  
EP 92 10 7459

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.5)
X	DE-A-27 36 079 (AIR-LB GMBH) * page 7, line 28 - page 8, line 13 * * page 11, line 2 - line 5; figure 1 * ---	1	H01R13/658 H01R13/514 H01R13/516 H01R23/70 H01R43/16
A	US-A-3 656 086 (DEBAIGT)  * column 3, line 47 - line 55; figures 1,6 * ---	1,2, 12-15	
A	US-A-3 179 914 (UBERBACHER)  * column 4, line 6 - line 49; figure 9 * ---	1,2, 12-15	
A	DE-A-23 00 137 (THOMA) * claim 7; figures 1-5 * ---	1,2	
A	EP-A-0 422 785 (AMP INC) * abstract; figure 3 * -----	1,12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H01R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 February 1995	Examiner HORAK A.L.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			



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## CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

## LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet -B-

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respects of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: 1, 2, 12, 13, 14, 15



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### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1,2,12,13,14,15: Female plug
2. Claims 3-7 : Shielding
3. Claims 8-11 : Receptacle