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(72) Inventor: **Skip, Paul**  
**Eastcote, Middlesex HA4 8SP (GB)**

(74) Representative: **Needle, Jacqueline et al**  
**W.H. BECK, GREENER & CO**  
**7 Stone Buildings**  
**Lincoln's Inn**  
**London WC2A 3SZ (GB)**

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(71) Applicant: **Deltron Components Limited**  
**London NW10 6DN (GB)**

(54) **Electrical connectors and connecting parts therefor**

(57) A plug (2) has an insulating housing (4) and two elongate, conductive, connecting pins (6) which each extend within a tubular bore (10). Each pin (6) is wholly within, and does not project relative to, its respective bore (10). Each pin (6) carries a resilient, conductive lantern spring (14) to enable good electrical contact between the pin (6) and a socket (22). The socket (22) has a housing (24) of insulating material defining a tubular

sheath which extends around and insulates a substantially cylindrical, tubular, conductive socket (30). This socket (30), with its insulating sheath (26), is receivable within the corresponding bore (10) in the plug (2). In the connected position, the pin (6) is received within the socket (30), and the socket (30) is insulated both by its sheath (26) and by the housing (4) of the plug (2) such that the electrically conductive parts are completely inaccessible from the outside.

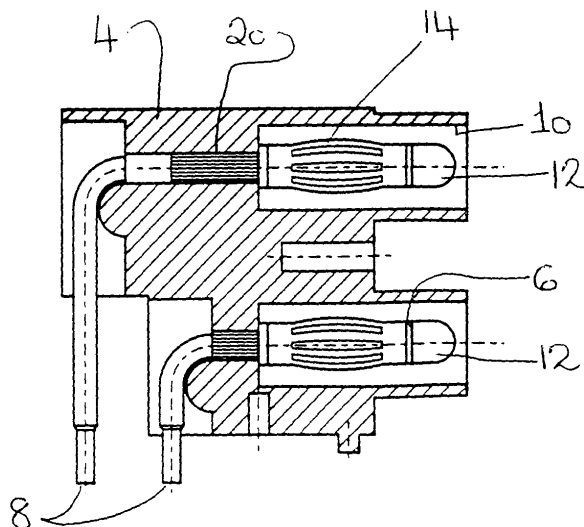


Figure 2

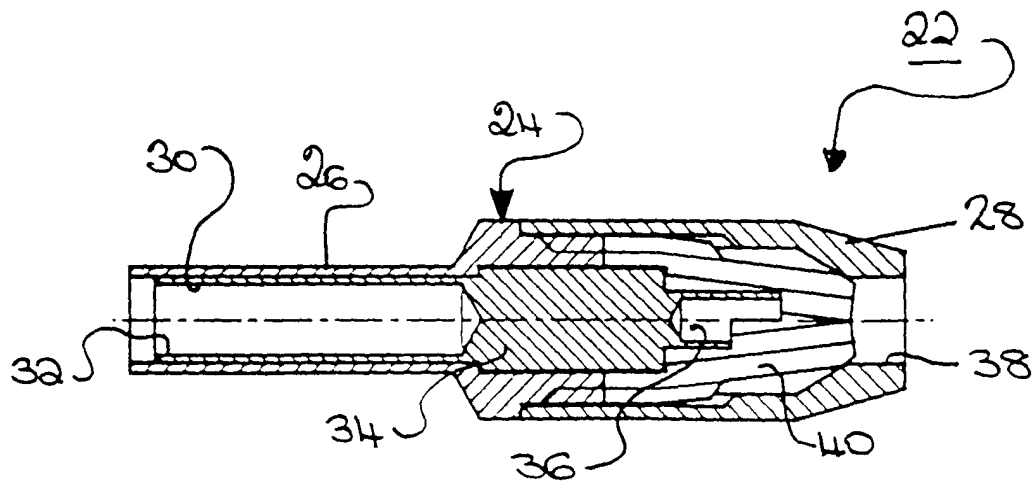


Figure 4



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 97 31 0450

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Y	US 5 026 301 A (SEPMEYER ARTHUR C ET AL) 25 June 1991 * figure 3 *	4	
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A	US 5 267 869 A (NADASKY SUZANNE C ET AL) 7 December 1993 * column 3, line 20-54; figures 1,2 *	1-8	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 19 April 1999	Examiner Berg, S
<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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 97 31 0450

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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