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(54) **An electrical connection device, specifically for a motor vehicle headlight**

(57) An electrical connection device (1) including a (male) connection plug (2) provided with a plurality of pin- or blade-shaped electrical contacts (3) cantileverly extending from a front face (4) of the connection plug, substantially perpendicular to the face itself, so as to be insertable in use, for the whole length thereof, in a (female) power supply/electrical connection socket (5) for the electrical and mechanical coupling with respective conjugated electrical contacts (6) of the socket; and a removable protection element (10) including a plate (11) which may be frontally coupled in abutment with the front face of the connection plug and a plurality of through-holes (12) obtained through the plate, in the direction of

the thickness thereof, so as to be arranged in use substantially perpendicular to the front face (4) of the connection plug, each hole (12) being adapted to thoroughly receive a respective said contact (3) so that, when the plate is coupled in abutment against the front face of the connection plug, the contacts (3) are housed for the most part of their length within the plate (11), though having respective free ends (13) cantileverly extending out from the plate, on the side opposite to the front face of the connection plug, so as to allow at least the electrical connection of the contacts to said power supply/electrical connection socket (5) or, at least, to a testing socket for the connection plug.

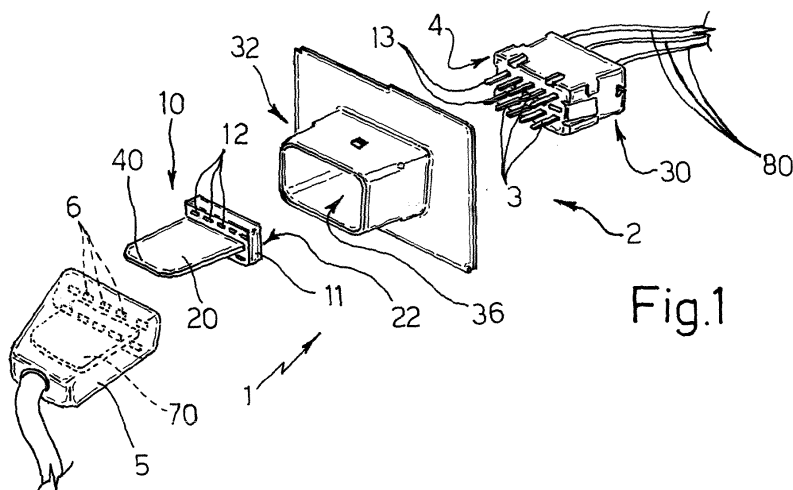


Fig.1



EUROPEAN SEARCH REPORT

Application Number
EP 07 10 9153

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 06 333641 A (YAZAKI CORP) 2 December 1994 (1994-12-02) * abstract; figures 1-7 * -----	1-9	INV. H01R13/52
A,D	US 4 084 882 A (HOGAN VAUGHAN CLARENCE ET AL) 18 April 1978 (1978-04-18) * column 3, line 4 - line 29 * * column 3, line 41 - line 65; figures 1-7 * -----	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01R
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 22 October 2009	Examiner Stirn, Jean-Pierre
<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 & : member of the same patent family, corresponding document</p>			

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

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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
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22-10-2009

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 6333641	A	02-12-1994	JP	2905360 B2	14-06-1999

US 4084882	A	18-04-1978	CH	618521 A5	31-07-1980
			GB	1531950 A	15-11-1978
			JP	1095955 C	14-05-1982
			JP	53056045 A	22-05-1978
			JP	56039447 B	12-09-1981
			US	4155159 A	22-05-1979
