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(11) **EP 1 311 026 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.06.2005 Bulletin 2005/23

(51) Int Cl.7: **H01R 12/24, H01R 12/38**

(43) Date of publication A2:
14.05.2003 Bulletin 2003/20

(21) Application number: **02024838.1**

(22) Date of filing: **07.11.2002**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Hotea, Gheorg**
64347 Griesheim (DE)

(74) Representative:
Patentanwaltskanzlei WILHELM & BECK
Nymphenburger Strasse 139
80636 München (DE)

(30) Priority: **07.11.2001 EP 01126347**

(71) Applicant: **Tyco Electronics AMP GmbH**
64625 Bensheim (DE)

(54) **Connector for detachably connecting an electrically conductive foil to a contact**

(57) The invention relates to a connector (1) for detachably connecting an electrically conductive foil (10) to electrically conductive socket contacts (26) of a socket housing (3), wherein the foil (10) can be inserted into a contact receiving aperture (40) of the socket contact (26) and can be jammed therein.

Separation of connection and locking of the connector (1) is achieved in that, in addition to the socket housing (3), the connector comprises a foil housing (2) and

the housings (2,3) can be mutually connected, and in that prior to connection in a first foil slot (9) of the foil housing (2) and during connection via a second foil slot (11) of the socket housing (3), the foil (10) can be inserted without mating force into the open contact receiving aperture (40) of the socket contact (26), and in that the connector (1) can be locked and the foil (10) can be jammed by closing the contact receiving aperture (40) only after connection of the housings (2,3).

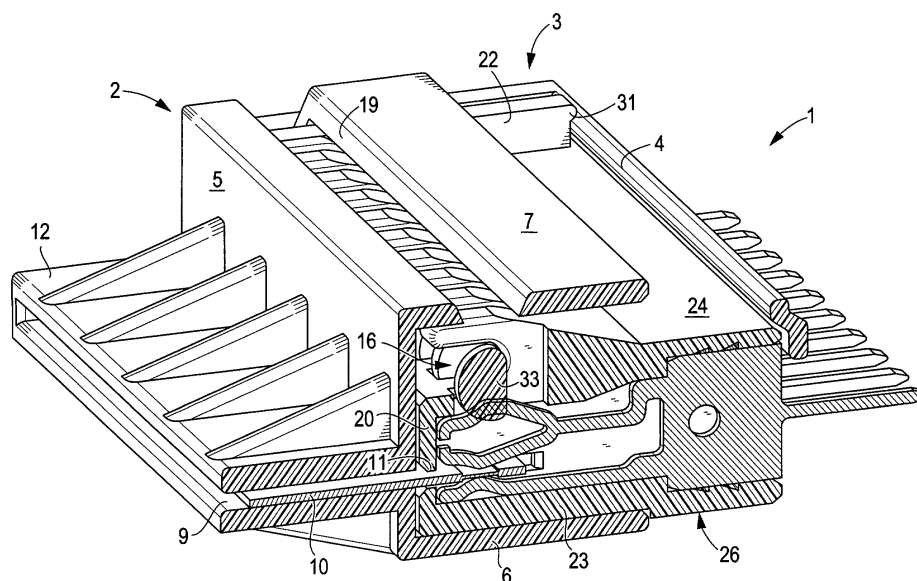


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 4838

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.7)
A	US 6 159 038 A (WU ET AL) 12 December 2000 (2000-12-12) * figures *	1,13	H01R12/24 H01R12/38
X	----- US 5 240 430 A (SOES ET AL) 31 August 1993 (1993-08-31) * figures 4,5 *	15,16,18	
A	----- EP 0 855 766 A (SUMITOMO WIRING SYSTEMS, LTD) 29 July 1998 (1998-07-29) * figures *	1,13	
A	----- EP 0 492 091 A (KARL LUMBERG GMBH & CO) 1 July 1992 (1992-07-01) * figures 1,4 *	1,13	

			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 April 2005	Examiner Langbroek, A
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			

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EPO FORM 1503 03.82 (P04C01)

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

EP 02 02 4838

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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20-04-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6159038	A	12-12-2000	CN 2395407 Y	06-09-2000
			TW 449136 Y	01-08-2001

US 5240430	A	31-08-1993	NONE	

EP 0855766	A	29-07-1998	JP 3391431 B2	31-03-2003
			JP 10270131 A	09-10-1998
			CN 1188999 A ,C	29-07-1998
			DE 69804879 D1	23-05-2002
			DE 69804879 T2	24-10-2002
			EP 0855766 A2	29-07-1998
			JP 10270130 A	09-10-1998
			JP 2004288648 A	14-10-2004
			US 6056571 A	02-05-2000

EP 0492091	A	01-07-1992	DE 4041093 C1	02-04-1992
			DE 59105663 D1	13-07-1995
			EP 0492091 A1	01-07-1992
