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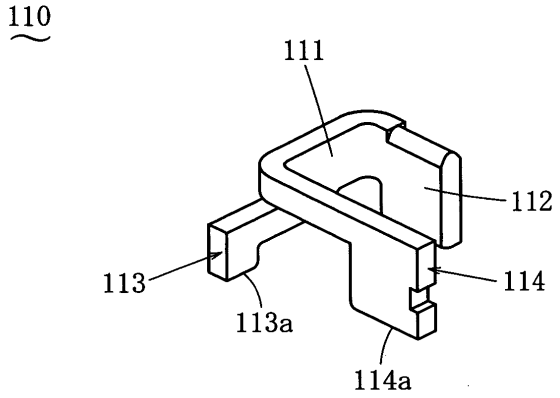
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(54) A header contact and a header connector for use therewith

(57) A header contact fixes a header housing reliably and prevents separation or the like of a soldering part so as to secure a function of signal connection and enhance the electric reliability of a header connector. The header contact (110) is provided in the header connector (100) that is to be mounted on a surface of an object for mounting (B) having conductor pattern. This header contact (110) comprises a contacting part (112)which is to contact a socket contact (220) of a counterpart socket connector (200), and a first connecting part (113) and a second connecting part (114)which are to be soldered onto the conductor pattern (FP), (SP) of the object for mounting (B).

FIG. 1



EP 1 530 261 A3

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EUROPEAN SEARCH REPORT

Application Number
EP 04 25 6883

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 Y	US 5 888 077 A (CHAMPION ET AL) 30 March 1999 (1999-03-30) * column 2, line 50 - column 3, line 7 *	1,6 2-5	H01R12/16
Y	EP 1 069 656 A (LEOPOLD KOSTAL GMBH & CO. KG) 17 January 2001 (2001-01-17) * paragraph [0006] *	2	
Y	EP 0 706 240 A (MOLEX INCORPORATED) 10 April 1996 (1996-04-10) * column 3, line 48 - line 51 *	3	
Y	DE 196 00 966 A1 (SIEMENS AG, 80333 MUENCHEN, DE; SIEMENS AG) 24 July 1997 (1997-07-24) * abstract; figure 1 *	4	
Y	FR 2 766 630 A (PRONER COMATEL) 29 January 1999 (1999-01-29) * page 3, line 25 - page 4, line 27 *	5	
A	WO 02/50955 A (MAYER, ALEXANDER) 27 June 2002 (2002-06-27)		TECHNICAL FIELDS SEARCHED (IPC) H01R

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	14 December 2005	Bertin, M

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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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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14-12-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5888077 A	30-03-1999	BE 1010510 A3	06-10-1998
		CA 2210543 A1	02-02-1998
		FR 2752097 A1	06-02-1998
EP 1069656 A	17-01-2001	AT 303009 T	15-09-2005
		DE 29912210 U1	16-09-1999
EP 0706240 A	10-04-1996	SG 43135 A1	17-10-1997
		US 5498167 A	12-03-1996
DE 19600966 A1	24-07-1997	GB 2309128 A	16-07-1997
FR 2766630 A	29-01-1999	NONE	
WO 0250955 A	27-06-2002	US 2004097109 A1	20-05-2004

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82