



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 973 232 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.03.2001 Bulletin 2001/10

(51) Int Cl.7: **H01R 4/18**, H01R 12/08,
H01R 4/24

(43) Date of publication A2:
19.01.2000 Bulletin 2000/03

(21) Application number: **99113247.3**

(22) Date of filing: **08.07.1999**

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

(72) Inventors:
• **Van der Steen, Hendrikus Petrus Gijsbertus
5275 BW Den Dungen (NL)**
• **Wiersma, Cornelis
5366 BJ Megen (NL)**

(30) Priority: **17.07.1998 EP 98113332**
15.04.1999 EP 99107572

(74) Representative: **Heinz-Schäfer, Marion
AMP International Enterprises Limited
AMPèrstrasse 3
9323 Steinach (SG) (CH)**

(71) Applicant: **THE WHITAKER CORPORATION
Wilmington, Delaware 19808 (US)**

(54) **Electrical contact for contacting a foil conductor**

(57) An electrical contact for making contact with a foil conductor surrounded by an insulating foil layer, that has a contacting section (2) with a baseplate (4) with at least one protruding section (5) and at least one lateral lug (6) attached to the baseplate (4), where the lug is basically arranged at right angles to the baseplate (4), capable of piercing through the foil and having a lateral section that can be bent over onto the foil, the lateral

section being provided with a lower edge (9) which is separated from the baseplate (4) by a slot and with the lateral section being bendable over to make contact between the foil conductor and the middle section (7), wherein by the bending action, the insulating foil layer on top of the foil conductor is stripped off the foil which is located between the protruding section (5) and the lower edge (9) of the lateral section (8) thus establishing electrical contact with the foil conductor.

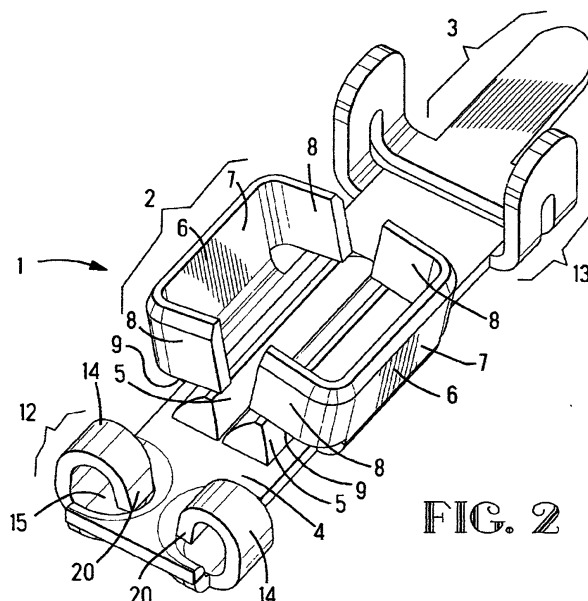


FIG. 2

EP 0 973 232 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 11 3247

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	EP 0 653 805 A (DU PONT NEDERLAND ;DU PONT (US)) 17 May 1995 (1995-05-17) * column 6, line 38 - column 9, line 50; figures 1-20 *	1,7	H01R4/18 H01R12/08 H01R4/24
A	US 4 082 402 A (KINKAID ROBERT JOHN ET AL) 4 April 1978 (1978-04-04) * column 5, line 33 - column 12, line 55; figures 1-13 *	1,7	
A	US 3 937 403 A (LAWSON GUSTAF RUDOLPH) 10 February 1976 (1976-02-10) * column 2, line 36 - column 6, line 34; figures 1-10 *	1,7	
D,A	US 4 669 798 A (DAUM RONALD E ET AL) 2 June 1987 (1987-06-02) * column 2, line 16 - column 5, line 7; figures 1-13 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R
Place of search		Date of completion of the search	Examiner
THE HAGUE		12 January 2001	Tappeiner, R
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			

EPO FORM 1503 03 82 (P4/C01)

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

EP 99 11 3247

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-01-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0653805 A	17-05-1995	DE 8622143 U	23-10-1986
		NL 8600856 A	02-11-1987
		AT 148587 T	15-02-1997
		AT 150589 T	15-04-1997
		AU 592275 B	04-01-1990
		AU 7077187 A	08-10-1987
		BR 8701399 A	05-01-1988
		DE 3752011 D	13-03-1997
		DE 3752011 T	07-08-1997
		DE 3752036 D	24-04-1997
		DE 3752036 T	07-08-1997
		EP 0243998 A	04-11-1987
		HK 54597 A	02-05-1997
		HK 97397 A	08-08-1997
		JP 2661683 B	08-10-1997
		JP 63013285 A	20-01-1988
		KR 9512463 B	18-10-1995
		SG 43210 A	17-10-1997
		SG 65573 A	22-06-1999
		US 4749368 A	07-06-1988
		CA 1276700 A	20-11-1990
US 4082402 A	04-04-1978	AR 212690 A	15-09-1978
		AU 7675474 A	24-06-1976
		BR 7500073 A	04-11-1975
		CA 1025965 A	07-02-1978
		CH 585975 A	15-03-1977
		DE 2500556 A	10-07-1975
		ES 433486 A	16-11-1976
		FR 2257159 A	01-08-1975
		GB 1474249 A	18-05-1977
		HK 18879 A	06-04-1979
		IT 1028046 B	30-01-1979
		JP 1154919 C	15-07-1983
		JP 50100585 A	09-08-1975
		JP 57048833 B	18-10-1982
		NL 7416845 A, B,	11-07-1975
		SE 425532 B	04-10-1982
		SE 7500222 A	10-07-1975
US 3937403 A	10-02-1976	AR 201057 A	06-02-1975
		AT 775974 A	15-08-1977
		AU 7312974 A	11-03-1976
		BE 820649 A	02-04-1975
		CA 1023448 A	27-12-1977
		CH 569368 A	14-11-1975

EPO FORM P0459

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

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

EP 99 11 3247

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-01-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3937403 A		DE 2443437 A	17-04-1975
		ES 206136 Y	16-06-1976
		FR 2246989 A	02-05-1975
		GB 1478871 A	06-07-1977
		IT 1021191 B	30-01-1978
		JP 50064789 A	02-06-1975
		NL 7412580 A	08-04-1975
		SE 7412492 A	07-04-1975
US 4669798 A	02-06-1987	CA 1240377 A	09-08-1988
		JP 62165883 A	22-07-1987

EPO FORM P0459

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