



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
26.05.2010 Bulletin 2010/21

(51) Int Cl.:
H01R 43/01 (2006.01)

(43) Date of publication A2:
03.12.2008 Bulletin 2008/49

(21) Application number: **08156158.1**

(22) Date of filing: **14.05.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR
Designated Extension States:
AL BA MK RS

(72) Inventors:
• **Porkka, Kimmo**
03620 Karkkila (FI)
• **Hakonen, Teuvo**
02610 Espoo (FI)

(30) Priority: **30.05.2007 FI 20070426**

(74) Representative: **LEITZINGER OY**
Tammasaarenkatu 1
00180 Helsinki (FI)

(71) Applicant: **Helvar Oy Ab**
03600 Karkkila (FI)

(54) **Means for connecting wires of lamps**

(57) The invention relates to a connecting means for clamping wires (12) to a coupling device (2) equipped with a knife connector (4). The connecting means comprises at least one retainer element (14) for each wire for holding the wire in the retainer element, at least one gripper element (20) as per each wire, said gripper element

taking hold of a dielectric wire coating, at least one partition slot (24) for at least one partition (8) of the knife connector, and a clamping assembly (26) for engaging the connecting means with the knife connector (4), such that the wires (12) present in the connecting means are engaged over a stripped surface thereof in contact with the coupling device (2).

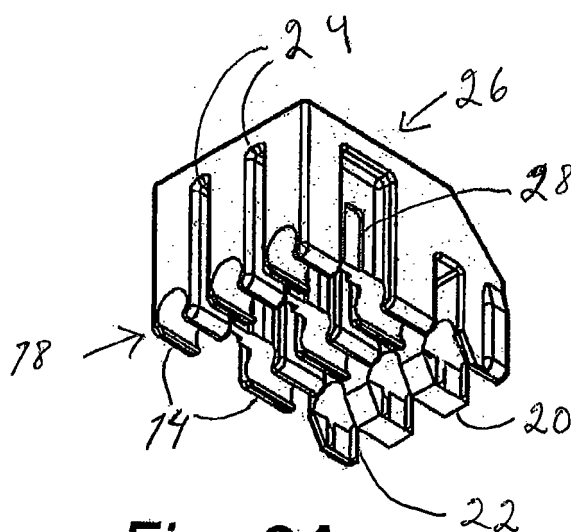
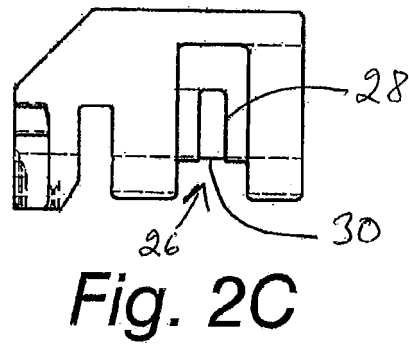
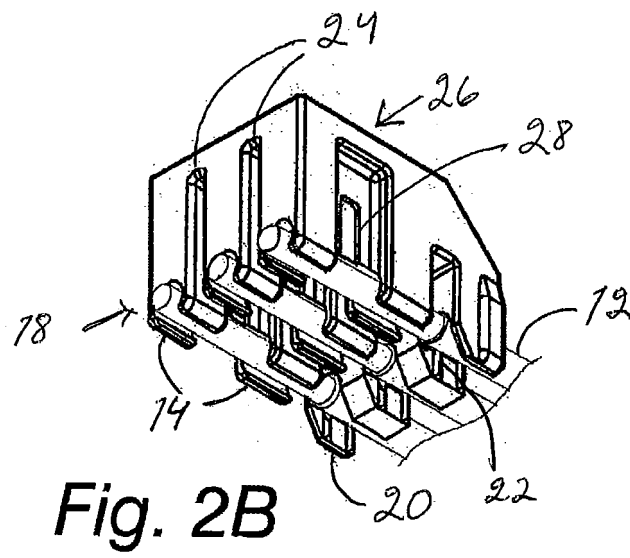


Fig. 2A





EUROPEAN SEARCH REPORT

Application Number
EP 08 15 6158

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	US 5 415 562 A (MATSUMOTO MITSUHIRO [JP] ET AL) 16 May 1995 (1995-05-16)	1,2	INV. H01R43/01
Y	* column 2 - column 6; figures 6-8, 11, 12 *	3-7	
Y	US 2002/094715 A1 (PEPE PAUL J [US] ET AL) 18 July 2002 (2002-07-18) * paragraphs [0020], [0029]; figure 2 *	3-6	
Y	US 5 941 728 A (OKABE TOSHIAKI [JP] ET AL) 24 August 1999 (1999-08-24) * figures 5-7 *	7	
A	DE 32 03 651 A1 (MAIGLER GEB MAIGLER BRIGITTA [DE]) 18 August 1983 (1983-08-18) * figure 2 *	1-7	
A	Helvar Oy Ab: "Wire release instructions - Q13 100 1B" Finland	1-7	
	15 January 2004 (2004-01-15), page 1/1, XP002576868 Retrieved from the Internet: URL: http://web.archive.org/web/20070622160523/www.helvar.com/default.asp?path=2628,2661,2672&article=2042&index=X&page=1&lan=E N> [retrieved on 2010-04-01] * Electronic ballast with IDC & horizontal push-in terminal *		TECHNICAL FIELDS SEARCHED (IPC) H01R H05B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 April 2010	Examiner Ernst, Uwe
<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>			

 1
EPO FORM 1503 03.82 (P04C01)

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

EP 08 15 6158

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.

09-04-2010

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5415562	A	16-05-1995	JP	6029006 U	15-04-1994
US 2002094715	A1	18-07-2002	NONE		
US 5941728	A	24-08-1999	JP	3223100 B2	29-10-2001
			JP	9245851 A	19-09-1997
DE 3203651	A1	18-08-1983	NONE		

EPO FORM P0459

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