



(11)

EP 2 105 997 A3

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
06.04.2011 Bulletin 2011/14

(51) Int Cl.: **H01R 4/70** (2006.01) **H01R 13/52** (2006.01)
H01R 13/50 (2006.01)

(43) Date of publication A2:
30.09.2009 Bulletin 2009/40

(21) Application number: **09002846.5**

(22) Date of filing: **27.02.2009**

(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 MK MT NL NO PL
 PT RO SE SI SK TR**
 Designated Extension States:
AL BA RS

(30) Priority: **28.03.2008 JP 2008086571**

(71) Applicant: **Yasaki Corporation**
Tokyo 108-8333 (JP)

(72) Inventors:

- Fujii, Gaku
Susono-shi
Shizuoka (JP)
- Nakatsugawa, Susumu
Sapporo-shi
Hokkaido (JP)

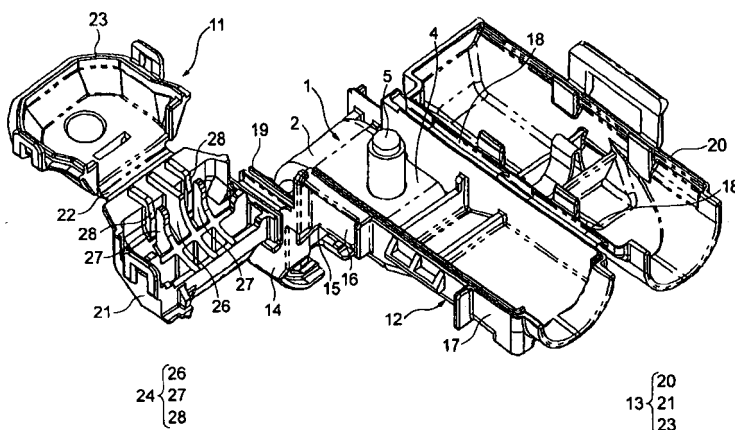
(74) Representative: **Grünecker, Kinkeldey,
Stockmair & Schwanhäusser
Anwaltssozietät
Leopoldstrasse 4
80802 München (DE)**

(54) **Terminal cap**

(57) The present invention provides a terminal cap which is capable of suppressing looseness in the twisting direction of a terminal by the structure of a pair of clamping portions. The terminal cap of the invention accommodating a terminal which has bent portion includes a cap body accommodating the terminal and having an opening through which the terminal is accommodated and a second clamping portion, a cap cover covering the opening and including a first clamping portion. The first and the second clamping portion clamp the terminal so

as to sandwich the bending portion. The first clamping portion includes a rigid rib aligned to a central axis of the terminal, a pair of flexible arms including a flexible abutting portion overlapping the bending portion, and disposed on both sides of the rigid rib at equal interval, and a space to which the displacement of the flexible arms is absorbed. The second clamping portion includes a rigid mounting wall aligned to the central axis of the terminal and including a mounting surface formed so as to fit the shape of the bending portion.

FIG. 2





EUROPEAN SEARCH REPORT

Application Number
EP 09 00 2846

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	JP 2004 253223 A (YAZAKI CORP) 9 September 2004 (2004-09-09) * abstract; figures 1-14 *	1	INV. H01R4/70 H01R13/52 H01R13/50
A	EP 1 786 069 A1 (RPM S P A [IT]) 16 May 2007 (2007-05-16) * paragraphs [0024] - [0030]; figures 1,2 *	1	
A	DE 103 19 038 A1 (YAZAKI CORP [JP]) 13 November 2003 (2003-11-13) * abstract; figures 1-8 *	1	
A	EP 0 765 005 A2 (SUMITOMO WIRING SYSTEMS [JP]) 26 March 1997 (1997-03-26) * abstract; figure 1 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			H01R
Place of search		Date of completion of the search	Examiner
The Hague		1 March 2011	Jiménez, Jesús
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 09 00 2846

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The members are as contained in the European Patent Office EDP file on
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01-03-2011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2004253223 A	09-09-2004	JP 3888546 B2	07-03-2007
EP 1786069 A1	16-05-2007	NONE	
DE 10319038 A1	13-11-2003	JP 2003317823 A	07-11-2003
		US 2003224638 A1	04-12-2003
EP 0765005 A2	26-03-1997	CN 1157494 A	20-08-1997
		DE 69607430 D1	04-05-2000
		DE 69607430 T2	21-12-2000
		US 5804770 A	08-09-1998