



(11) **EP 1 748 454 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
19.03.2008 Bulletin 2008/12

(51) Int Cl.:
H01H 31/04 (2006.01) H01H 9/20 (2006.01)

(43) Date of publication A2:
31.01.2007 Bulletin 2007/05

(21) Application number: **06009531.2**

(22) Date of filing: **09.05.2006**

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

(72) Inventors:
• **Bossi, Daniele**
20090 Buccinasco
Prov. of Milano (IT)
• **Bre', Romano**
27010 Siziano
Prov. of Pavia (IT)

(30) Priority: **28.07.2005 IT MI20051473**

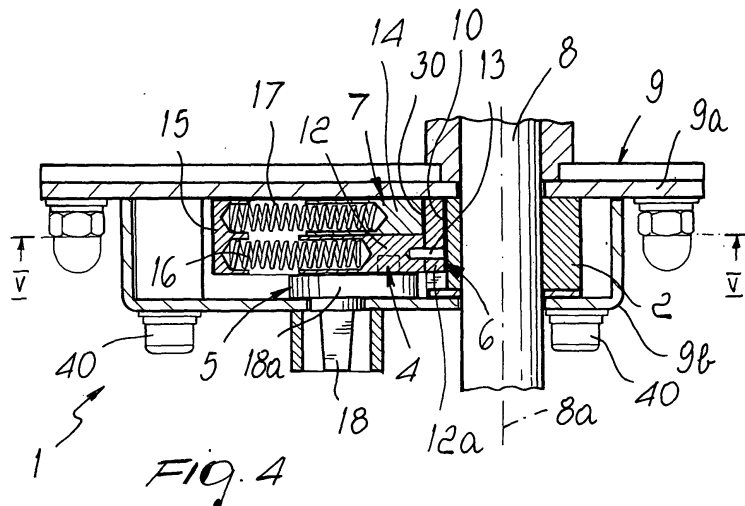
(74) Representative: **Alagem Modiano, Lara S. et al**
Modiano & Associati
Via Meravigli, 16
20123 Milano (IT)

(71) Applicant: **COEPTÉ RAIL S.R.L.**
20090 Buccinasco MI (IT)

(54) **Device for locking an item of switchgear, particularly for grounding disconnectors of electrical lines, with high safety against unauthorized actuation**

(57) A device for locking an item of switchgear, particularly for grounding disconnectors of electrical lines, with high safety against unauthorized actuations, comprising an abutment element (2), which is connected to the item of switchgear (3) to be locked and can move along a path in order to pass from at least one first position to at least one second position, these positions being mutually spaced along the path, or vice versa. The device comprises first locking means (4), which can engage the abutment element (2) in order to lock it in the two men-

tioned positions, and control means (5) for disengaging the first locking means (4) from the abutment element (2). The first locking means (4) comprise a calibrated-shear element (6) adapted to allow, following its breakage, the passage of the abutment element (2) from the first position to the second position without acting on the control means (5). The device comprises second locking means (7), which can engage the abutment element (2) in order to lock it in the second position despite the breakage of the calibrated-shear element (6).



EP 1 748 454 A3



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	GB 2 318 456 A (CRAIG & DERRICOTT LIMITED [JP]) 22 April 1998 (1998-04-22) * the whole document *	1	INV. H01H31/04 H01H9/20
A	DE 198 23 114 A1 (ESAG ENERGIEVERSORGUNG SACHSEN [DE]) 25 November 1999 (1999-11-25) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01H
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		6 February 2008	Starck, Thierry
<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</p> <p>& : 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 06 00 9531

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.

06-02-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2318456	A	22-04-1998	NONE

DE 19823114	A1	25-11-1999	NONE

EPO FORM P0459

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