EP 1 467 047 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **26.04.2006 Bulletin 2006/17** 

(51) Int Cl.: **E05B** 15/04 (2006.01)

(11)

E05B 3/00 (2006.01)

(43) Date of publication A2: 13.10.2004 Bulletin 2004/42

(21) Application number: 04252084.1

(22) Date of filing: 07.04.2004

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated Extension States:

AL HR LT LV MK

(30) Priority: 09.04.2003 FI 20030529

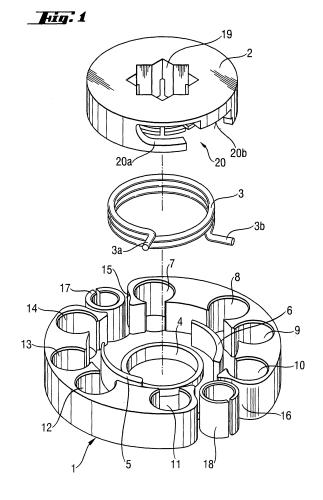
(71) Applicant: Abloy Oy 80100 Joensuu (FI)

(72) Inventor: Saarinen, Jarmo 80100 Joensuu (FI)

(74) Representative: Hanson, William Bennett Bromhead Johnson, Kingsbourne House, 229-231 High Holborn London WC1V 7DP (GB)

## (54) Return spring arrangement for handle

(57) A return spring arrangement for a handle in a door lock or a door latch comprises a body part (1) provided with restricting members (5, 6) for a spring (3), and a spring casing (2) to be rotatably connected to the body part, which spring casing, when installed, encloses both the restricting members (5,6) and the return spring (3) of the handle, the ends (3a, 3b) of which are arranged to cooperate with said restricting members (5, 6). The spring casing (2) is adapted, at least substantially, to be embedded in the body part (1) so that it forms a compact unit, which is arranged to be installed entirely into a countersink made in a door or the like, between the handle plate and the door lock or the door latch, and to be fastened by utilizing the fastening screws of the handle plate.



EP 1 467 047 A3



## EUROPEAN SEARCH REPORT

Application Number EP 04 25 2084

1		ERED TO BE RELEVANT		
Category	Citation of document with in of relevant passag	dication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
D,Y	FI 104 007 B (ABLOY 4 October 1998 (199 * figures 1-7 *		1-4	E05B15/04 E05B3/00
Y	FR 1 236 000 A (ETA FRERES; SOCIETE LIO 15 July 1960 (1960- * the whole documen	X) 07-15)	1-4	
A		6 * 2 *	1	
A	FR 2 730 264 A (BEZ 9 August 1996 (1996 * page 4, line 21 - * figures 3-5 *	-08-09)	1	TECHNICAL FIELDS SEARCHED (IPC)
A	GB 2 095 788 A (SHE LTD) 6 October 1982 * page 1, line 80 - * figures 1,4,5 *	FFIELD BRICK GROUP THE (1982-10-06) page 2, line 45 *	1	E05B
	The present search report has b	<u> </u>		
Place of search		Date of completion of the search	5	Examiner
	The Hague	1 March 2006		cton, A
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth unent of the same category nological background	L : document cited fo	ument, but publice the application or other reasons	shed on, or
	-written disclosure rmediate document	& : member of the sa document	me patent family	, corresponding

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

EP 04 25 2084

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.

01-03-2006

Patent document cited in search report		Publication date	Patent family member(s)		Publication date		
FI	104007	В	29-10-1999	DK EE FI PL SE SE	46698 9800012 971374 325688 516926 9801073	A A A1 C2	04-10-19 15-10-19 04-10-19 12-10-19 26-03-20 04-10-19
FR	1236000	Α	15-07-1960	NONE			
DE	9102683	U1	23-05-1991	NONE			
FR	2730264	Α	09-08-1996	NONE			
GB	2095788	Α	06-10-1982	NONE			

FORM P0459

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