



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
01.12.1999 Bulletin 1999/48

(51) Int Cl.⁶: **E05B 9/04, E05B 9/06**

(43) Date of publication A2:
20.01.1999 Bulletin 1999/03

(21) Application number: **98305622.7**

(22) Date of filing: **15.07.1998**

(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) Inventor: **Cowper, Brian**
New Malden, Surrey KT3 3HP (GB)

(74) Representative: **Prutton, Roger**
MARKS & CLERK,
Alpha Tower,
Suffolk Street Queensway
Birmingham B1 1TT (GB)

(30) Priority: **18.07.1997 GB 9715111**

(71) Applicant: **Cowper, Brian**
New Malden, Surrey KT3 3HP (GB)

(54) **Lock**

(57) A lock comprises a body having first (14) and second (22) opposite side plates each having an orifice (16, 20) therein so as to form a passage therebetween. A cylindrical lock cylinder (2) passes through the passage and is driveably connected with a rotatable cam (8). A bolt member is mounted for movement relative to the body and is moveable by the cam (8). The lock cylinder (2) is received by first and second close-fitting sleeves (12, 24) which are secured thereto, the second sleeve (24) being removably secured, such that an inner end of each of the first and second sleeves (12, 24) abuts the first and second side plates (14, 22) respectively, so as to prevent axial movement of the lock cylinder (2). The first sleeve (12) has at least one projection (12b) on its inner end (12a) which is received in the orifice (16) of the first side plate (14) and is a close fit therein, so as to substantially prevent rotation of the first sleeve (12). The first side plate (14) has an upstanding ridge (18a) on an inner face (14a), which is located such that when the lock is in the locked position it is adjacent the cam (8) and sufficiently limits axial movement of the lock cylinder (2) that the at least one projection (12b) on the first sleeve (12) is not completely disengageable from the orifice (16) in the first side plate (14) even when the second sleeve (24) is removed, whereas when the lock is in an open position such axial movement is not limited by the ridge (18a).

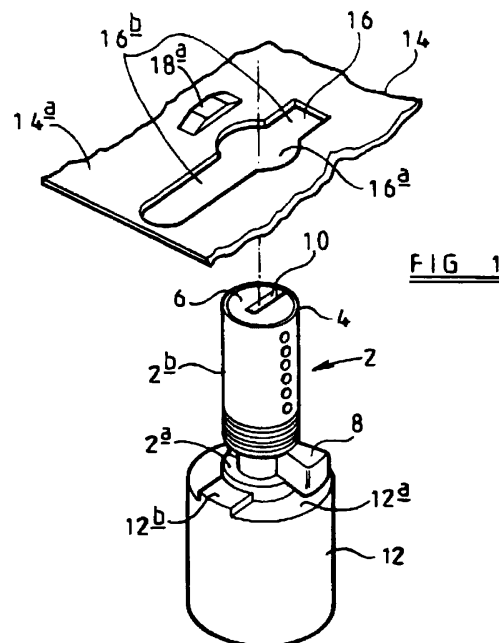
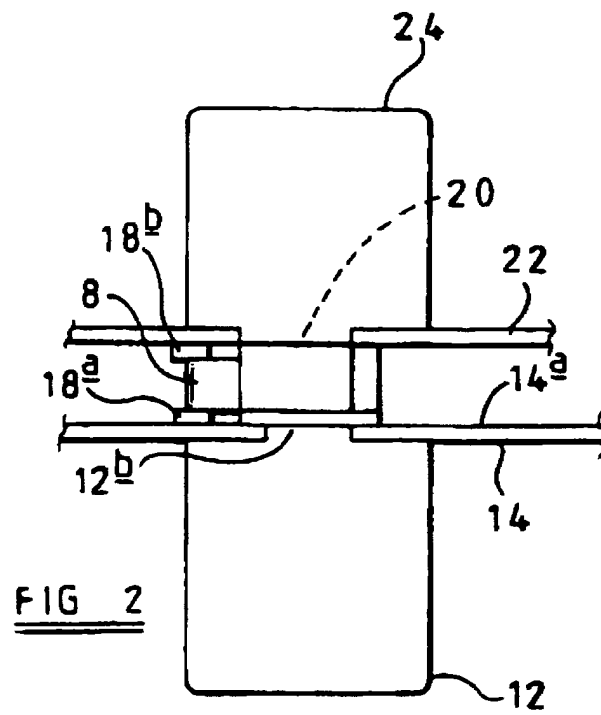


FIG 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 5622

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.6)
A	US 5 577 408 A (ROOS ANGSTROM GE) 26 November 1996 (1996-11-26) * column 2, line 14 - line 28 * * column 2, line 41 - line 44; figure * ---	1	E05B9/04 E05B9/06
A	US 4 424 693 A (BEST WALTER E ET AL) 10 January 1984 (1984-01-10) * column 5, line 43 - line 61; figures 1-3 * ---	1	
A	EP 0 269 556 A (ZEISS IKON AG) 1 June 1988 (1988-06-01) * column 2, line 7 - line 23; figure 4 * ---	1	
A	DE 88 10 546 U (SICHERHEIT & DESIGN FRANK DÖHNER BAUBESCHLÄGE) 26 January 1989 (1989-01-26) * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			E05B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 8 October 1999	Examiner Pieracci, A
<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>			

EPO FORM 1503 03.82 (P04C01)

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

EP 98 30 5622

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.

08-10-1999

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5577408	A	26-11-1996	NO	934885 A	30-06-1995
US 4424693	A	10-01-1984	NONE		
EP 0269556	A	01-06-1988	DE	3639588 A	01-06-1988
			DK	607687 A	21-05-1988
DE 8810546	U	26-01-1989	NONE		

EPO FORM P0459

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