



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 149 970 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
26.03.2003 Bulletin 2003/13

(51) Int Cl.⁷: **E05B 47/00**, E05B 65/20

(43) Date of publication A2:
31.10.2001 Bulletin 2001/44

(21) Application number: **01303420.2**

(22) Date of filing: 11.04.2001

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:

Designated Extension States:

(CC) Right - 25.04.2020 - SP 0000704

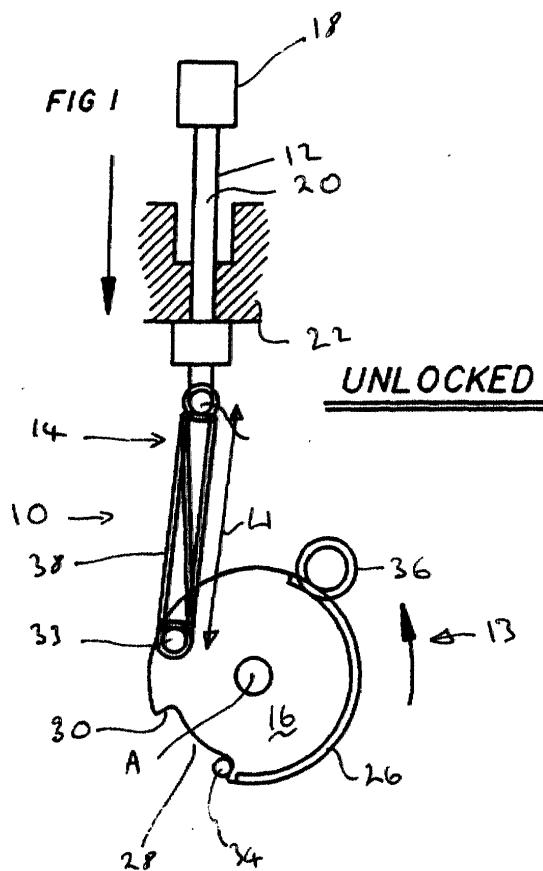
(71) Applicant: **ArvinMeritor Light Vehicle Systems (UK) Ltd**
Birmingham, West Midlands, B30 3BW (GB)

(72) Inventor: **Fisher, Sidney E**
Solihull, West Midlands B90 2HB (GB)

(74) Representative: **Jones, John Bryn et al**
Withers & Rogers,
Goldings House,
2 Hays Lane
London SE1 2HW (GB)

(54) Locking arrangement

(57) A locking arrangement (10, 11) including a manually actuatable element (12, 160) connected via a transmission path to a latch assembly (13, 113), the latch assembly having unlocked locked and superlocked conditions, the latch assembly being moveable between the unlocked locked and superlocked conditions by operation of an actuator (42, 142), the latch assembly being moveable between the unlocked and locked conditions by operation of the manually actuatable element, the transmission path including resilient means (38, 138) to limit the force applied by the manually actuatable element when the manually actuatable element is operated to attempt to move the latch assembly from its superlocked condition (Figure 7).





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.7)
X	DE 94 14 181 U (BOMORO BOCKLENBERG & MOTTE GMBH & CO KG) 15 December 1994 (1994-12-15)	1-4,8-10	E05B47/00 E05B65/20
A	* page 6 - page 7; figures 1-4 *	5	
X	DE 196 50 928 A (DAIMLER BENZ AG) 18 June 1998 (1998-06-18)	1-3,8-12	
A	* column 5, line 24 - column 6, line 21; figures 1-5 *	5,13-15	
A	DE 41 30 094 C (BOMORO BLOCKENBERG & MOTTE GMBH & CO KG) 24 September 1992 (1992-09-24)	1,2,8,9, 14,15	
A	* column 3, line 11 - line 30 *	16,17	
	* column 5, line 32 - line 57; figures 1-4 *		
X	US 6 019 402 A (PAULIK RITA MARGARETE ET AL) 1 February 2000 (2000-02-01)	1,2,5-10	
	* column 11, line 11 - line 25; figure 9 *		
X	DE 44 33 994 C (KIEKERT AG) 14 March 1996 (1996-03-14)	1-3,8-10	
A	* column 3, line 62 - column 6, line 23; figures 1-8 *	5-7	E05B
A	EP 0 302 642 A (ROCKWELL AUTOMOTIVE BODY COMPONENTS LTD) 8 February 1989 (1989-02-08)	1-3,8-13	
	* column 3, line 35 - column 7, line 26; figures 1A-7C *		
A	WO 00 05469 A (MERITOR LIGHT VEHICLE SYS LTD ;FISHER SYDNEY EDWARD (GB)) 3 February 2000 (2000-02-03)	1,14-16	
	* page 8, line 13 - page 10, line 9; figures 4-6 *		
The present search report has been drawn up for all claims			
Place of search EPO FORM 1509 03 02 (P04C01)	Date of completion of the search 4 February 2003	Examiner PEREZ MENDEZ, J	
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 01 30 3420

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.

04-02-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 9414181	U	15-12-1994	DE	9414181 U1	15-12-1994
DE 19650928	A	18-06-1998	DE	19650928 A1	18-06-1998
DE 4130094	C	24-09-1992	DE	4130094 C1	24-09-1992
US 6019402	A	01-02-2000	WO	0005471 A1	03-02-2000
DE 4433994	C	14-03-1996	DE	4433994 C1	14-03-1996
EP 0302642	A	08-02-1989	GB	2207698 A	08-02-1989
			AT	73197 T	15-03-1992
			DE	3868769 D1	09-04-1992
			EP	0302642 A1	08-02-1989
			JP	1127775 A	19-05-1989
			JP	2775044 B2	09-07-1998
			US	4986098 A	22-01-1991
WO 0005469	A	03-02-2000	GB	2339831 A	09-02-2000
			EP	1097284 A1	09-05-2001
			WO	0005469 A1	03-02-2000
			US	6431619 B1	13-08-2002