



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

**EP 1 167 665 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**12.03.2003 Bulletin 2003/11**

(51) Int Cl.7: **E05B 65/16**, E05B 13/10,  
E05B 65/10, E05B 47/06

(43) Date of publication A2:  
**02.01.2002 Bulletin 2002/01**

(21) Application number: **01112923.6**

(22) Date of filing: **05.06.2001**

(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:  
**AL LT LV MK RO SI**

(72) Inventor: **Bortolotti, Lando**  
**40141 Bologna (IT)**

(74) Representative: **Modiano, Guido, Dr.-Ing. et al**  
**Modiano & Associati SpA**  
**Via Meravigli, 16**  
**20123 Milano (IT)**

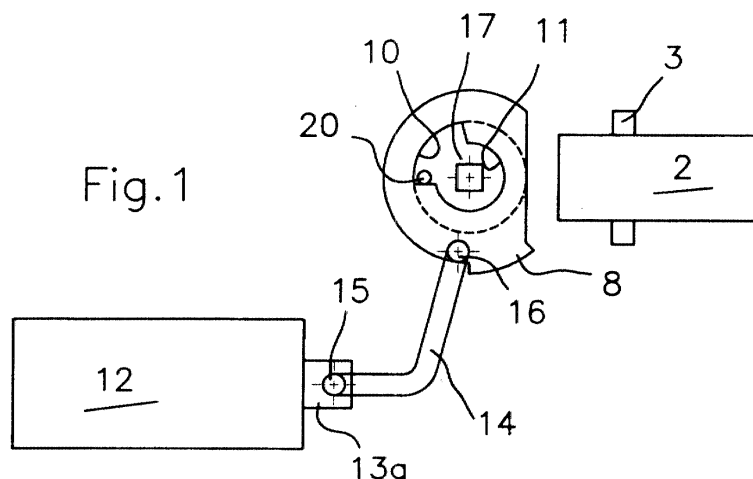
(30) Priority: **20.06.2000 IT BO000086**

(71) Applicant: **Pastore & Lombardi S.r.l.**  
**40057 Cadriano di Granarolo Emilia (Bologna)**  
**(IT)**

(54) **Key-operated lock assembly for emergency actuation of the button of a handle for doors of trucks, trailers or the like**

(57) A key-operated lock assembly for emergency actuation of the button (2) of a handle for doors of trucks, trailers or the like, in which the actuation key can be extracted in three positions which lie at 90 degrees to each other and comprises: an outer ring, which is fitted so that it can rotate coaxially with the plug of the key-operated lock in the casing of the handle proximate to the handle locking button, the ring having a perimetric profile which forms a lip (8) which is suitable to block the rotation of the button (2) and a recess which allows the rotation of the button in order to release the handle and an arc-like slot (10) extending substantially through 90 degrees; an

electromagnet (12), in which the fixed part is rigidly coupled to the handle casing and the moving element is connected to the outer ring by means of a transmission stem (14); and a circular inner ring (17), which is rigidly coupled to the rotating plug of the lock and is provided with a pin (20) which is rigidly coupled thereto, protrudes from its surface and is suitable to enter the arc-like slot (10) of the outer ring (7); the rotation of the plug being suitable to produce the rotation of the outer ring if the electromagnet fails to operate, the electromagnet being able to move the outer ring to a configuration for locking or releasing the button when the key is extracted in an intermediate position.



EP 1 167 665 A3



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 01 11 2923

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)
A	US 4 134 281 A (PELCIN ALBERT L) 16 January 1979 (1979-01-16) * column 5, line 19 - line 33; figure * ---	1	E05B65/16 E05B13/10 E05B65/10 E05B47/06
A	US 3 304 755 A (JOHNSTONE THEODORE H) 21 February 1967 (1967-02-21) * the whole document * ---	1	
A	US 3 200 623 A (PETERS THEODORE F) 17 August 1965 (1965-08-17) * column 2, line 44 - line 64; figure * ---	1	
A	CA 884 769 A (SAVAGE HAROLD) 2 November 1971 (1971-11-02) * the whole document * ---	1	
A	DE 298 06 974 U (EMKA BESCHLAGTEILE) 2 July 1998 (1998-07-02) * page 6, line 4 - page 7, line 17; figure * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E05B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		17 January 2003	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  &amp; : member of the same patent family, corresponding document</p>			

EPC FORM 1503 03/92 (P04C01)

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

EP 01 11 2923

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.

17-01-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4134281	A	16-01-1979	NONE	
US 3304755	A	21-02-1967	NONE	
US 3200623	A	17-08-1965	NONE	
CA 884769	A	02-11-1971	NONE	
DE 29806974	U	02-07-1998	DE 29806974 U1	02-07-1998