



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
10.10.2007 Bulletin 2007/41

(51) Int Cl.:
D06F 37/42 (2006.01) F24C 14/02 (2006.01)

(43) Date of publication A2:
29.03.2006 Bulletin 2006/13

(21) Application number: **05108596.7**

(22) Date of filing: **19.09.2005**

(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:
• **GAJ, Renato**
15033, Casale Monferrato (AL) (IT)
• **MORO, Marco**
15030, S. Maurizio di Conzano (AL) (IT)
• **GADINI, Costanzo**
15040, Frassineto Po (AL) (IT)

(30) Priority: **22.09.2004 IT TO20040636**

(71) Applicant: **ELTEK S.p.A.**
I-15033 Casale Monferrato (Alessandria) (IT)

(74) Representative: **Gallarotti, Franco**
Buzzi, Notaro & Antonielli d'Oulx Srl,
Via Maria Vittoria, 18
10123 Torino (IT)

(54) **Door-lock device for a household appliance**

(57) A door-lock device for a household appliance comprises a body (2) to which there is hinged, via a pin (8), a catch (7) that is capable of angular movement, as well as an actuating system (3-5) having actuator means (3) that can be controlled to determine passage of the locking member (7) between a first inoperative condition, in which opening of the door (9) of the household appliance is enabled, and an operative condition, in which opening of the door (9) is prevented. Switching means (14) are provided for enabling translation of the pin (8),

and hence of the catch (7), between a position of normal operation and a position of special operation, both of which stable. In the position of normal operation, the movement of the catch (7) is obtained via the actuating system (3-5), whilst in the position of special operation the catch (7) can assume a second inoperative condition. The switching means (14) can be actuated by applying on the door (9) a force that is considerably greater than the minimum force necessary for opening the door itself when the catch (7) is located in its first inoperative condition.

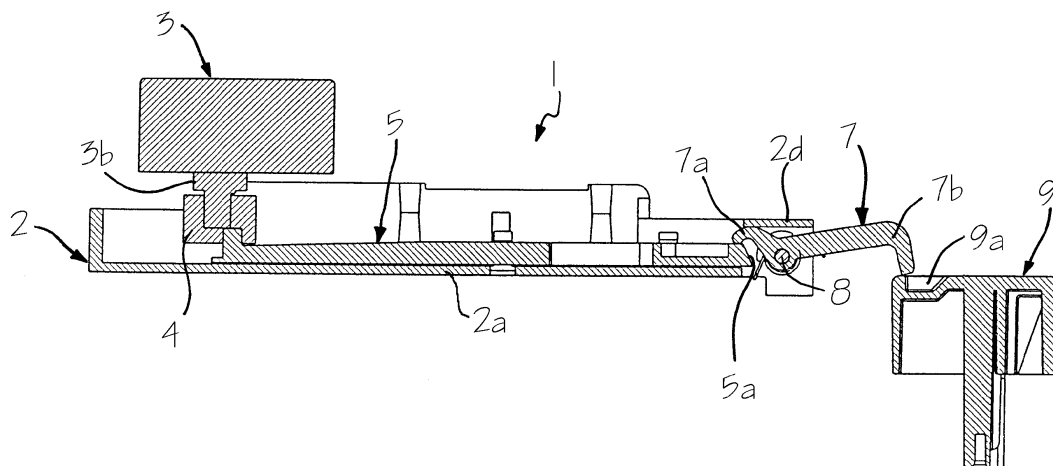


Fig. 14



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 10 8596

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 198 46 863 A1 (BSH BOSCH SIEMENS HAUSGERAETE [DE]) 13 April 2000 (2000-04-13)	1-3, 5-11, 13-21 23,24	INV. D06F37/42 F24C14/02
Y	-----		
X	US 4 927 996 A (GENBAUFFE FRANCIS S [US] ET AL) 22 May 1990 (1990-05-22) * column 4, paragraph 3; figures 2,3,5,6,12 *	1-3,5-7, 9,10, 14-17, 19,20	
X	US 6 364 376 B1 (SPARGO THOMAS W [US]) 2 April 2002 (2002-04-02) * column 6, lines 19-24; figure 6 *	25	
Y	-----	23,24	
A	EP 1 388 604 A (ELLENBERGER & POENSGEN [DE]) 11 February 2004 (2004-02-11) * the whole document *	1-22	
			TECHNICAL FIELDS SEARCHED (IPC)
			F24C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		4 September 2007	Rodriguez, Alexander
CATEGORY OF CITED DOCUMENTS 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 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			

1
EPO FORM 1503 03.82 (P04C01)

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

EP 05 10 8596

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.

04-09-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19846863	A1	13-04-2000	NONE	

US 4927996	A	22-05-1990	AU 3759489 A	12-12-1989
			CA 1305208 C	14-07-1992
			MX 164353 B	05-08-1992
			WO 8911223 A1	30-11-1989
			US 5029910 A	09-07-1991

US 6364376	B1	02-04-2002	NONE	

EP 1388604	A	11-02-2004	DE 10236777 A1	04-03-2004
