



(11) **EP 1 795 682 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**05.12.2007 Bulletin 2007/49**

(51) Int Cl.:  
**E05D 15/06<sup>(2006.01)</sup> E05D 15/58<sup>(2006.01)</sup>**

(43) Date of publication A2:  
**13.06.2007 Bulletin 2007/24**

(21) Application number: **06380317.5**

(22) Date of filing: **07.12.2006**

(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**

• **Beredas Jimenez, Francisco**  
**12100 El Grao de Castellón (ES)**

(72) Inventors:  
• **Beredas Jimenez, Rafael**  
**12100 El Grao de Castellón (ES)**  
• **Beredas Jimenez, Antonio**  
**12100 El Grao de Castellón (ES)**  
• **Beredas Jimenez, Francisco**  
**12100 El Grao de Castellón (ES)**

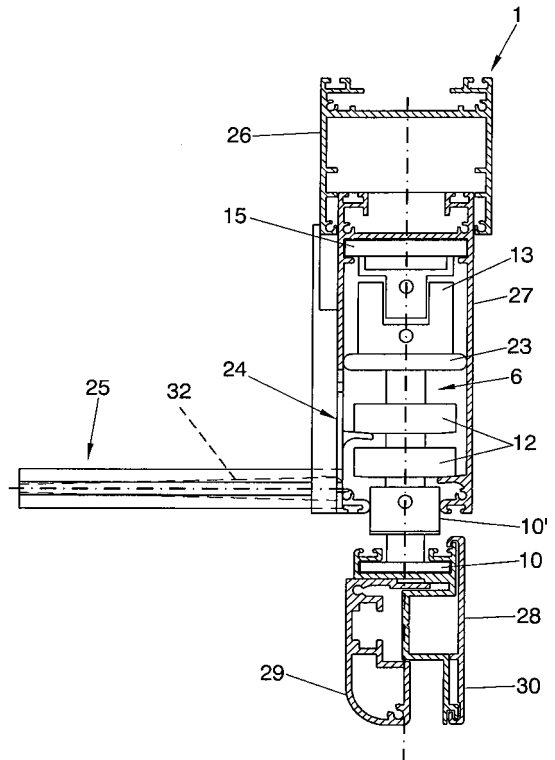
(30) Priority: **09.12.2005 ES 200502687 U**

(74) Representative: **Ungria Lopez, Javier et al**  
**Avda. Ramon y Cajal, 78**  
**28043 Madrid (ES)**

(54) **Improved foldable glass door system**

(57) It comprises independent and coplanar panes (3) which can be displaced linearly guided in the upper (1) and lower (1') horizontal profiles of the frame as far as successively achieving a certain position where they can rotate through 90°. The panes have four rolling supports, two forward (8, 9) and two rear (6, 7). The rear supports (6, 7) define the hinging axes and are constantly connected to the horizontal profiles (1, 1') of the frame. The forward ones (8, 9) can exit when they reach a lateral opening (24) of those horizontal profiles (1, 1') when the rear ones (6, 7) face and fit into separate hinges (14) premounted in the horizontal profiles (1, 1').

The hinges (14) have a fixed part (15) attached to the horizontal profile (1, 1') and the other rotating part (18) being assisted by a spring (16) which keeps it in an optimum position for being able to receive the connection element (13) of the rear supports (6, 7). The first pane rotates only and comprises some prismatic wedges (31, 31') as rear supports (6, 7) which are attached to the first upper and lower hinge (14) respectively.



**FIG.13**

**EP 1 795 682 A3**



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 1 085 156 A (SOLARLUX ALUMINIUM SYSTEME GMB [DE]) 21 March 2001 (2001-03-21) * paragraph [0008] - paragraph [0013]; claims 1-11; figures 1-3 * -----	1-8	INV. E05D15/06 E05D15/58
A	EP 0 902 153 A (SKS STAKUSIT BAUTECHNIK GMBH [DE]) 17 March 1999 (1999-03-17) * paragraph [0017] - paragraph [0029]; claim 1; figures 1-5 * -----	1-8	
A	US 5 749 172 A (ISOPAHKALA JOUKO [FI]) 12 May 1998 (1998-05-12) * column 3, line 60 - column 4, line 65; claims 1,2; figures 1-8 * -----	1-8	
			TECHNICAL FIELDS SEARCHED (IPC)
			E05D E06B
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>30 October 2007</b>	Examiner <b>Balice, Marco</b>
<b>CATEGORY OF CITED DOCUMENTS</b> 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	

3  
EPO FORM 1503 03/02 (P04C01)

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

EP 06 38 0317

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.

30-10-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1085156 A	21-03-2001	AT 275688 T JP 2001123733 A US 6397522 B1	15-09-2004 08-05-2001 04-06-2002
EP 0902153 A	17-03-1999	DE 19739688 A1	18-03-1999
US 5749172 A	12-05-1998	FI 1694 U1	12-01-1995

EPO FORM P0459

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