



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
15.10.2008 Bulletin 2008/42

(51) Int Cl.:
E05F 11/48^(2006.01)

(43) Date of publication A2:
14.11.2007 Bulletin 2007/46

(21) Application number: **07107268.0**

(22) Date of filing: **30.04.2007**

(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 MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

(30) Priority: **10.05.2006 IT PD20060181**

(71) Applicant: **POLITECNICA 80 S.p.A.**
35010 Cadoneghe (Prov. of Padova) (IT)

(72) Inventor: **MARIN, Tarcisio**
35010, VIGODARZERE PD (IT)

(74) Representative: **Modiano, Micaela Nadia**
Dr. Modiano & Associati SpA
Via Meravigli 16
20123 Milano (IT)

(54) **Electric power window device, particularly but not exclusively for motor vehicles of the armored type**

(57) An electric power window device for motor vehicles, particularly but not exclusively for motor vehicles of the armored type, of the type which comprises a guide (11) to be arranged substantially vertically within the body of the vehicle and a slider (12, 112) which is arranged so that it can slide on the guide (11) and to which the window pane to be moved can be fixed. The slider (12, 112) is connected to a rotary actuation element (13) by means of an upper portion (15, 115) and a lower portion (16, 116) of a flexible transmission element (14, 114). The upper portion (15) of the flexible element (14, 114) comprises a first upper part (22), which extends from the rotary actuation element (13) toward an upper guiding element (23) arranged above the slider (12, 112), and a second upper part (30), which extends from the first guiding element (23) toward the slider (12, 112). Likewise, the lower portion (16) of the flexible element (14, 114) comprises a first lower part (26) which extends from the rotary actuation element (13) toward a lower guiding element (27) arranged below the slider (12, 112) and a second lower part (31) which extends from the second guiding element (27) toward the slider (12, 112). The device comprises, on the slider (12, 112), at least one pulley (32, 132) for guiding respectively the second upper part (30) and the second lower part (31) respectively toward a first region (33), which is arranged substantially above the position occupied by the at least one pulley (32, 132) when the slider (12, 112) is at the upper stroke limit of the guide (11), and a second region (34), which is arranged substantially below the position occupied by the

at least one pulley (32, 132) when the slider (12, 112) is at the lower stroke limit (11b) of the guide (11).

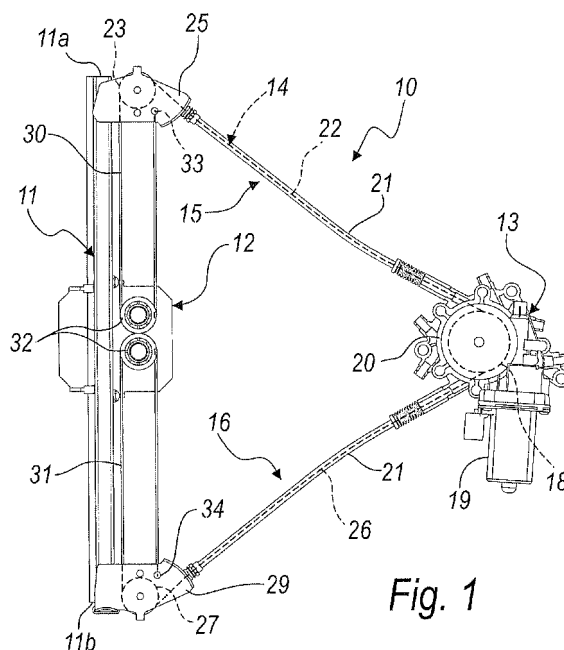


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 07 10 7268

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 A	DE 31 46 092 A1 (BROSE FAHRZEUGTEILE [DE]) 14 July 1983 (1983-07-14) * claim 4 * * page 7, lines 17-28 * * page 8, line 9 - page 9, line 30 * * figure 1 * -----	1-4,6-9 5	INV. E05F11/48
X A	DE 42 35 396 A1 (DAIMLER BENZ AG [DE]) 28 April 1994 (1994-04-28) * column 1, line 50 - column 2, line 26 * * figure *	1-4,6-9 5	
X A	US 2004/144032 A1 (SMITH PETER J [CA]) 29 July 2004 (2004-07-29) * figures 2,2B * * figure 3 * * paragraphs [0015], [0016] * * paragraph [0018] * * paragraphs [0022], [0023] * -----	1-4,6-9 5	
X A	DE 203 13 274 U1 (BROSE FAHRZEUGTEILE [DE]) 30 September 2004 (2004-09-30) * paragraphs [0031] - [0034] * * paragraph [0036] * * paragraphs [0039], [0040] * * figures 1,2,4 * -----	1-4,6-9 5	TECHNICAL FIELDS SEARCHED (IPC) E05F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 4 September 2008	Examiner Mund, André
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	

2
EPO FORM 1503 03.82 (P04C01)

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

EP 07 10 7268

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.

04-09-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 3146092	A1	14-07-1983	JP 1676571 C 26-06-1992
			JP 3043430 B 02-07-1991
			JP 58094578 A 04-06-1983
			ZA 8208351 A 31-10-1984
DE 4235396	A1	28-04-1994	NONE
US 2004144032	A1	29-07-2004	AU 2003287841 A1 13-08-2004
			WO 2004065738 A1 05-08-2004
			CA 2513008 A1 05-08-2004
			CN 1742148 A 01-03-2006
			DE 10394062 T5 12-01-2006
			US 2008022601 A1 31-01-2008
DE 20313274	U1	30-09-2004	NONE