



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
31.01.2007 Bulletin 2007/05

(51) Int Cl.:
E05D 15/06 (2006.01)

(43) Date of publication A2:
19.09.2001 Bulletin 2001/38

(21) Application number: **01830167.1**

(22) Date of filing: **13.03.2001**

(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: **Lambertini, Marco**
40068 San Lazzaro di Savena (Bologna) (IT)

(74) Representative: **Lanzoni, Luciano**
c/o BUGNION S.p.A.
Via Goito, 18
40126 Bologna (IT)

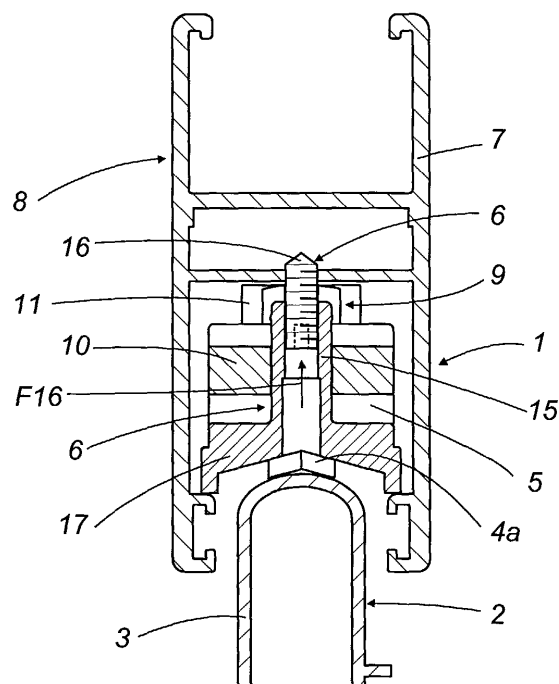
(30) Priority: **15.03.2000 IT BO000140**

(71) Applicant: **GSG INTERNATIONAL S.p.A.**
40054 Budrio (Bologna) (IT)

(54) **A one-piece carriage for sliding door and window frames.**

(57) A one piece carriage for sliding door and window frames (1) comprises a pair of wheels (4a, 4b), sliding on a fixed track (3), connected in such a way that they can turn idly, at the relative ends of a support body (5) which can be attached, using relative means (6), to a crosspiece (7) which is part of a mobile frame (8), and support means (9) for the mobile crosspiece (7) which also adjust the position of the mobile crosspiece (7) relative to the track (3), said means being made in the form of a single body on the support body (5) and designed to allow an adjusting oscillation of the mobile crosspiece (7) relative to the support body (5), in operation, according to the differences in the levels of the track (3) and the mobile crosspiece (7).

FIG. 2





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 83 0167

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	EP 0 846 826 A1 (FERCO INT USINE FERRURES [FR]) 10 June 1998 (1998-06-10) * figures 1,2 * * column 4, lines 11-36,44-54 * * column 5, lines 52-58 * * column 6, lines 1-5 * -----	1-5	INV. E05D15/06
X,P	EP 1 010 849 A1 (SOTRALU [FR]) 21 June 2000 (2000-06-21) * paragraphs [0019] - [0030], [0034]; claims 1-5; figures 1-7 * -----	1,3,4,8, 13	
X	FR 2 332 406 A1 (DS CROISEE [FR]) 17 June 1977 (1977-06-17) * pages 1,2, lines 39,1-7; figures 1-3 * * page 3, lines 15-27 * -----	1,3,4, 8-10	
X,D	IT B0 940 100 A1 (GIESSE SPA [IT]) 15 September 1995 (1995-09-15) * abstract; figures 1-4 * -----	1,3,4	
X	DE 89 02 831 U1 (GUGU, HANS, 8541 BUECHENBACH, DE) 5 July 1990 (1990-07-05) * pages 3-4, paragraph 5; claims 1,4; figures 1-3 * -----	1,8-10	TECHNICAL FIELDS SEARCHED (IPC) E05D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 December 2006	Examiner Schnedler, Marlon
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			

3
EPO FORM 1503 03.82 (P04C01)

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

EP 01 83 0167

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.

21-12-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0846826	A1	10-06-1998	AT 214454 T 15-03-2002
		CA 2221994 A1 03-06-1998	
		DE 69711003 D1 18-04-2002	
		DE 69711003 T2 14-11-2002	
		ES 2171869 T3 16-09-2002	
		FR 2756587 A1 05-06-1998	
		US 6026612 A 22-02-2000	
EP 1010849	A1	21-06-2000	AT 275231 T 15-09-2004
		DE 69919823 D1 07-10-2004	
		ES 2227978 T3 01-04-2005	
		FR 2787495 A1 23-06-2000	
FR 2332406	A1	17-06-1977	BE 848598 A1 16-03-1977
		DE 7636802 U1 31-03-1977	
IT B0940100	A1	15-09-1995	NONE
DE 8902831	U1	05-07-1990	NONE