

Europäisches Patentamt European Patent Office Office européen des brevets

(11) **EP 0 807 739 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **07.04.1999 Bulletin 1999/14**

(51) Int Cl.6: **E05D 15/26**

(43) Date of publication A2: 19.11.1997 Bulletin 1997/47

(21) Application number: 97830203.2

(22) Date of filing: 30.04.1997

(84) Designated Contracting States: AT BE CH DE ES FR GB GR IT LI

(30) Priority: 15.05.1996 IT BO960270

(71) Applicant: Koblenz S.r.l. 47040 Coriano (RN) (IT)

(72) Inventors:

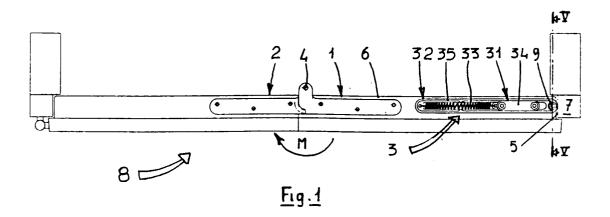
 Migliorini, Massimo 47037 Rimini RN (IT) Caldari, Gianfranco 47036 Riccione RN (IT)

(74) Representative: Lanzoni, Luciano c/o BUGNION S.p.A.
Via Cairoli, 107
47900 Rimini (Forli) (IT)

(54) Device for stabilising the closure of folding door wings

(57) A device for stabilising the closure of wings (1,2) of folding doors (8) comprising a rectilinear rod (34), attached to the top crosspiece (6) of the closing wing (1), able to guide a slider (35), elastically constrained to the rod (34) by elastic means (33), in such a way that, with the wings coplanar, a torque (M) is created

around the axis of rotation (r) of the articuled joint (4) coupling the wings (1,2) sufficient to maintain the wings (1,2) perfectly coplanar by the restraining reaction deriving from the action of the second end of the slider (35) on the upright (7) of the jamb or on a limit stop (10) of a groove (11) guiding a pin (9), borne by said second end of the slider (35), to guide the wings (1,2) as they slide.





EUROPEAN SEARCH REPORT

Application Number EP 97 83 0203

Category	Citation of document with indication, where appro	opriate, Rele	vant aim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
X A	US 3 494 408 A (D'ERCOLE) 10 Feb * column 3 - column 4; figures *	ruary 1970 1-3,	5	E05D15/26
X A	DE 37 40 021 A (HÜPPE) 8 June 19 * column 2, line 19 - column 3, figures *		5	
X	US 3 536 120 A (KELLEMS KENNETH 27 October 1970 * column 4, line 42 - line 46 * * column 4, line 72 - column 5, * column 5, line 40 - line 52; f	line 7 *		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	e wy ¹			
	THE HAGUE 12 Febr	ruary 1999		Examiner Kessel, J
X : parti Y : parti docu	cularly relevant if taken alone cularly relevant if combined with another ment of the same category Lological background	theory or principle underlyis earlier patent document, buafter the filing date document cited in the appl document cited for other re	ut publis cation asons	hed on, or

2

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

EP 97 83 0203

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.

12-02-1999

	Patent document ed in search repo		Publication date		Patent family member(s)	Publication date
US	3494408	Α	10-02-1970	DE JP	1956179 A 49011177 B	04-06-19 15-03-19
DE	3740021	Α	08-06-1989	NON	E	
US	3536120	Α	27-10-1970	GB	1279772 A	28-06-19