



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**22.01.2003 Bulletin 2003/04**

(51) Int Cl.7: **E05D 15/52**

(43) Date of publication A2:  
**07.02.2001 Bulletin 2001/06**

(21) Application number: **00830508.8**

(22) Date of filing: **19.07.2000**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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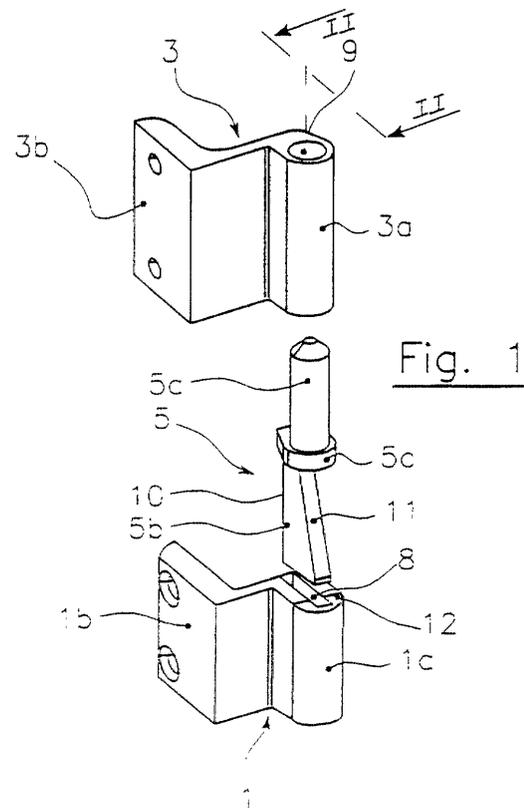
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(30) Priority: **04.08.1999 IT F1990178**

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(54) **Hinge assembly for tilt-and-turn window fixtures**

(57) 1. A hinge assembly for windows of the tilt-and-turn type, comprising a lower hinge body (1) to be fixed to a window frame (2) and an upper hinge body (3) to be fixed to the mobile portion (4) of the window as well as a hinge pin (5) engaging with respective hub portions (1a, 3a) of said lower and upper hinge bodies. The hub portion (3a) of upper hinge body (3) has a circular axial seat (9) for pivotally engaging a corresponding cylindrical portion (5a) of said pin. The pin comprises a shaped portion (5b) engaging with said hub portion (1a) of said lower hinge body (1) in a not rotatable way with respect to its own axis, but angularly displaceable therewithin on a plane containing said axis and perpendicular to the window plane. The pin further comprises an intermediate annular body (5c) acting as an abutment and placed between the shaped portion (5b) and the cylindrical portion (5a) and slidably abutting on an end of hub portion (1a) of the lower hinge body (1), the centre of rotation (C) of the angular displacement being located substantially at the other end thereof.





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EUROPEAN SEARCH REPORT

Application Number  
EP 00 83 0508

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DE 28 26 945 B (ZEILHOFER WILLI) 7 February 1980 (1980-02-07)	1,2,8	E05D15/52
Y	* claim 1; figures * ---	3-7	
Y	FR 1 377 934 A (BILSTEIN HANS) 6 November 1964 (1964-11-06) * page 2, line 11 - line 50; figures * -----	3-7	
The present search report has been drawn up for all claims			<b>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</b>  E05D
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>3 December 2002</b>	Examiner <b>Witasse-Moreau, C</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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 00 83 0508

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  
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03-12-2002

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