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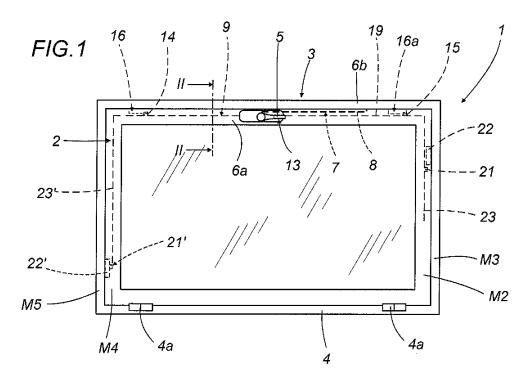
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#### (54) A bottom-hung window unit

(57) A bottom-hung window unit comprises: a mobile frame (2) and a fixed frame (3) hinged to each other along a respective first crosspiece (4); drive means (5) acting between a second crosspiece (6a, 6b), parallel and opposite to the first hinged crosspiece (4), said drive means being designed to enable the window unit (1) to be moved to an open configuration, where at least the second mo-

bile crosspiece (6a) is away from the second crosspiece of the fixed frame (3) and to a closed configuration where the mobile crosspiece (6a) is in contact with the fixed crosspiece (6b); means (7) for limiting the stroke of the mobile frame (2) moving to the open configuration relative to the fixed frame (3) and comprising at least one arm (8) hinged at its ends between the second crosspieces (6a, 6b) of the mobile and fixed frames (2) and (3).





# **EUROPEAN SEARCH REPORT**

Application Number EP 07 12 3227

Category	Citation of document with inc	SIDERED TO BE RELEVANT with indication, where appropriate,		CLASSIFICATION OF THE	
Jalegory	of relevant passa	ges	to claim	APPLICATION (IPC)	
A,D	EP 1 707 720 A1 (GSC 4 October 2006 (2006 * the whole document	5-10-04)	1-10	INV. E06B3/38 E05C17/24	
A	SAELZER HEINRICH [DI 19 May 2005 (2005-0		1-10		
A	DE 296 16 844 U1 (S 20 February 1997 (19 * page 9, line 14 - figure 2 *	IEGENIA FRANK KG [DE]) 997-02-20) page 11, line 32;	1-10		
A	EP 1 580 380 A2 (WII 28 September 2005 (2 * figure 1 *	NKHAUS FA AUGUST [DE]) 2005-09-28)	1-10		
A	DE 197 00 829 A1 (GI GMBH [DE]) 16 July 1 * figure 2c *	 EZE GMBH & CO [DE] GEZE 1998 (1998-07-16)	1-10	TECHNICAL FIELDS SEARCHED (IPC)	
				E05C E06B	
	The present search report has b	een drawn up for all claims  Date of completion of the search	1	Examiner	
The Hague		27 August 2010	Crı	uyplant, Lieve	
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anothment of the same category nological background	T : theory or princip E : earlier patent do after the filing da er D : document cited L : document cited	le underlying the cument, but publite in the application for other reasons	invention ished on, or	
O:non	-written disclosure rmediate document	& : member of the s document			

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

EP 07 12 3227

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.

27-08-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1707720	A1	04-10-2006	DE 602006000251 T2 ES 2297802 T3 PT 1707720 E	02-10-2008 01-05-2008 18-02-2008
US 2005102933	A1	19-05-2005	AT 341691 T EP 1516996 A2	15-10-2006 23-03-2005
DE 29616844	U1	20-02-1997	AT 197486 T EP 0833028 A1	11-11-2000 01-04-1998
EP 1580380	A2	28-09-2005	DE 102004014509 A1	15-12-2005
DE 19700829	A1	16-07-1998	NONE	

FORM P0459

 $\stackrel{\text{O}}{\text{LL}}$  For more details about this annex : see Official Journal of the European Patent Office, No. 12/82