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(54) **Method for locking a window's outer sash and a lock fitting**

(57) In the locking method for a window's outer sash according to the invention the outer sash is locked into a stationary position by pressing the outer sash with the aid of a locking member against a frame profile on the outer surface of the window's frame. As the locking member the method utilises a lock fitting, which comprises a side part (10) substantially entirely countersunk into the window frame and a movable inner part (12) arranged within the side part. The side part contains a cylindrical wall (14) and a flange (16) at the end of the wall. The inner part has on one surface a disk-like piston (28) with a turning handle (30) for moving the inner part. By rotating the turning handle the inner part can be moved into an upper position where the turning handle is substantially entirely outside the side part, and into a lower position where the turning handle is substantially entirely within the side part. When the inner part is in the upper position, the end of the turning handle rests on the outer sash thereby preventing the sash from opening in the direction of the lock fitting. When one wants to open the window the inner part is moved into the side part, whereby the sash can be freely opened. In order to raise and lower the inner part the side part's wall has at least one groove (18) and the inner part has a pin (34) arranged in the groove and arranged to move within the groove. Thus a rotation of the turning handle causes the inner part to move in the direction of the central axis of the side part, guided by the pin and the groove. A lock fitting according to the invention is mounted in a circular mounting hole drilled in the window's frame.

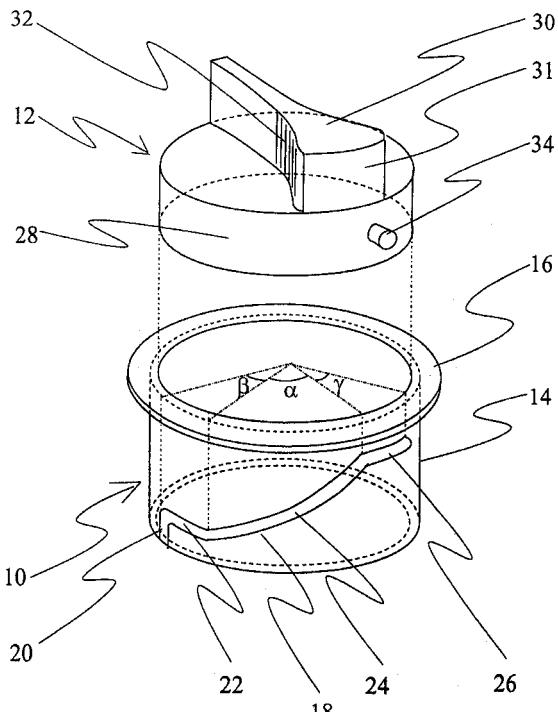


Fig. 1



DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages		
Y	DE 295 21 521 U1 (WOLFF, KARL-HEINZ, 30900 WEDEMARK, DE) 21 August 1997 (1997-08-21) * page 3, line 21 - page 4, line 24; figures 1-5 * -----	1-9	E05C7/02 E05C5/02
Y	US 5 280 973 A (CULLING ET AL) 25 January 1994 (1994-01-25) * column 2, line 15 - column 3, line 13; figures 1-3,11 * -----	1-9	
X	US 5 253 904 A (RUBY ET AL) 19 October 1993 (1993-10-19) * column 3, line 38 - column 5, line 22; figures 1-18 * -----	2,3	
A	US 6 336 245 B1 (SAKAKIBARA TOSHI) 8 January 2002 (2002-01-08) * column 5, line 50 - line 62; figures 11,12 * -----	1-9	
A	AU 68869 81 A (BROOKFIELD, H.K) 8 October 1981 (1981-10-08) * the whole document * -----	1-9	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	DE 812 888 C (BIEBL MAX) 6 September 1951 (1951-09-06) * the whole document * -----	1,6	E05C
The present search report has been drawn up for all claims			
2	Place of search The Hague	Date of completion of the search 21 February 2005	Examiner PEREZ MENDEZ, J
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			
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ON EUROPEAN PATENT APPLICATION NO.

EP 04 39 6016

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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21-02-2005

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 29521521	U1	21-08-1997	DE	19507575 A1		12-09-1996
US 5280973	A	25-01-1994		NONE		
US 5253904	A	19-10-1993		NONE		
US 6336245	B1	08-01-2002	JP	3310236 B2		05-08-2002
			JP	2000154680 A		06-06-2000
			JP	2001279996 A		10-10-2001
			DE	10022880 A1		08-02-2001
AU 6886981	A	08-10-1981		NONE		
DE 812888	C	06-09-1951		NONE		