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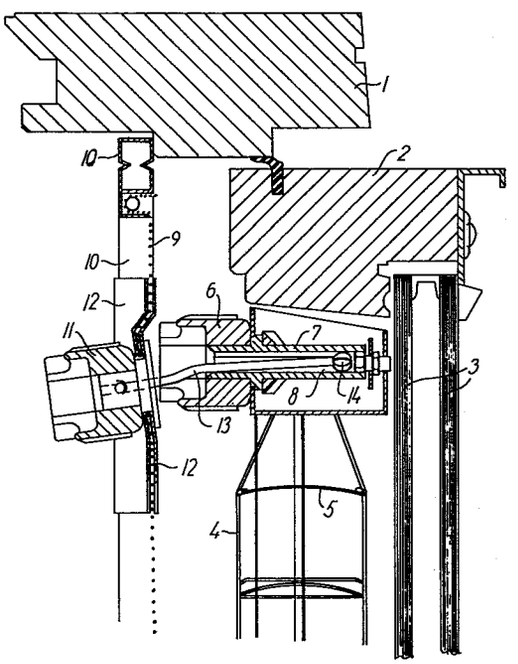
(54) A window with an adjustable slat blind and an insect screen mountable internally thereof.

(57) In a window having a sash (2) that carries a slat blind (4, 5) with a knob (6) for adjustment of the inclination of the slats, and to which belongs an insect screen (9, 10) for detachable mounting in the window main frame (1) inside the sash, said screen is provided with a further knob (11) which through a flexible shaft (13) having a cross-sectionally non-circular head (14) automatically gets in a non-rotative coupling engagement with the first mentioned knob (6) when mounting the insect screen in its position of use.



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A Window with an Adjustable Slat Blind and an Insect Screen Mountable Internally thereof.

This invention relates to a window comprising a main frame and a sash pivotally journalled therein and in which a slat blind having an adjusting mechanism is mounted, said mechanism being provided with a knob accessible from the internal side of the sash, and further comprising an insect screen adapted to be detachably mounted in the main frame internally of the window sash.

In known windows of the above type it is a drawback that the insect screen when mounted impedes the access to the knob on the inner face of the sash and the operation of said knob thus necessitates the screen to be temporarily taken down. This does not only cause some extra trouble, but it also involves the risk of insects flying in at the window if not completely closed.

Said drawback is eliminated through the invention in that the insect screen carries a further knob which through a flexible shaft is connectable with the knob of the slat blind adjusting mechanism, said adjusting knob having an elongated socket which is non-circular in cross-section and is adapted to receive a head on the flexible shaft in a displaceable but non-rotative manner.

In this case the slat blind adjusting mechanism may, owing to the additional knob, be operated while the insect screen is in its position of use, but a far more decisive advantage is, however, that the clutch connection between said two knobs is automatically established when mounting the screen, as the head on the flexible shaft will then so to say by itself find its way into the non-circular socket. Neither when mounting the in-

sect screen nor when demounting it does the clutch mechanism require any attention from user's position.

In order to prevent the head from getting jammed upon displacement in the socket, said head may advantageously be approximately spherical with incisions for slidable engagement with inwardly projecting cams in the socket. The spherical shape allows for a certain angular movement of the flexible shaft which may then without any harm have an appropriate longitudinal stiffness, and the incisions and the cams may for example give the head and the socket a hexagonal cross-sectional view.

In order to ensure sufficient stability it is preferred to journal the knob of the insect screen in a pair of fixture plates located on either side of the screen, one of which being fixable to an edge rail of the screen. This further eliminates the risk of damaging the screen proper, for instance when handling it roughly either manually or by motor operation.

An embodiment of the invention is illustrated on the drawing showing a sectional view of the upper part of a window, which may for instance be of the tilting type.

In the drawing 1 is the top member of the main frame of the window in which a sash 2 is mounted in an ordinary way. Inside a double-glass pane 3 the sash 2 carries an ordinary slat blind 4 having a mechanism, not shown in detail, for adjustment of the inclination of the slat blind lamellas 5. Said mechanism includes a knob 6 secured on a bushing 7 having an elongated, axial hole 8 of non-circular cross-section.

Inside the sash 2 the main frame 1 supports a detachable insect screen 9 in a moulding 10 which when mounted is secured in a recess provided in the main frame. Said screen comprises further a knob 11 journalled in a pair of fixture plates 12 on either side

of the screen 9 proper, at least one of which for stability purposes being in engagement with the moulding 10. The knob 11 is firmly connected with a flexible shaft 13 extending into the socket 8 in the bushing 7 of the first mentioned knob 6 and having at its foremost end an approximately spherical head 14 which has a non-circular cross-section similar to that of the socket 8.

The mounting and the demounting of the insect screen is effected by a tilting movement about its non-visible lower edge, thereby allowing the head 14 to slide easily into and out of the socket 8.

PATENT CLAIMS

1. A window comprising a main frame (1) and a sash (2) pivotally journalled therein and in which a slat blind (4, 5) having an adjusting mechanism is mounted, said mechanism being provided with a knob (6) accessible from the internal side of the sash, and further comprising an insect screen (9, 10) adapted to be detachably mounted in the main frame internally of the window sash, characterized in that the insect screen (9, 10) carries a further knob (11) which through a flexible shaft (13) is connectable with the knob (6) of the slat blind adjusting mechanism, said adjusting knob having an elongated socket (8) which is non-circular in cross-section and is adapted to receive a head (14) on the flexible shaft in a displaceable but non-rotative manner.

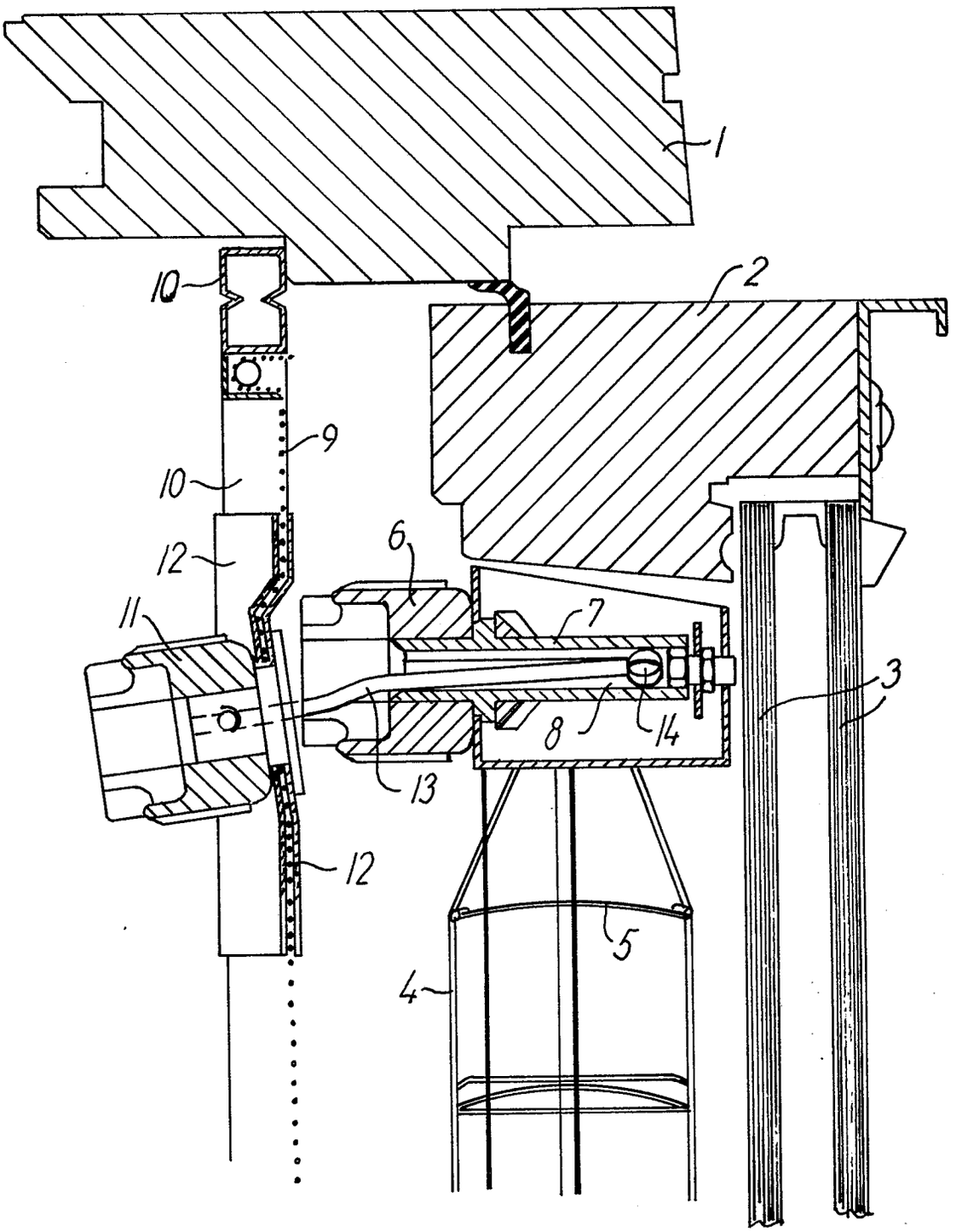
2. A window as claimed in claim 1, characterized in that said head (14) of the flexible shaft (13) is approximately spherical with incisions for sliding engagement with inwardly projecting cams in the socket (8).

3. A window as claimed in claim 1 or 2, characterized in that the knob (11) of the insect screen (9, 10) is journalled in a pair of fixture plates (12) located on either side of the screen, one of which being fixable to an edge rail (10) of the screen (9).

4. A window comprising a main frame (1) and a sash (2) pivotally journalled therein and in which is mounted a blind (4, 5) formed from horizontally extending slats and having an adjusting mechanism provided with an operating member (6) accessible from the internal side of the sash, the window further comprising an insect screen (9, 10) adapted to be detachably mounted in the main frame internally of the window sash, characterised in that the insect screen (9, 10) carries a further operating member and a flexible element (13) is provided for connecting

the two operating members which element has a head portion (14) engageable in a non-circular socket (8) of the first said operating member (6).

5. A window according to claim 4 wherein said head portion (16) is shaped to engage splines carried by the first said operating member, so as to be slidable but non-rotatable relative thereto.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EUROPEAN SEARCH REPORT

0235952
. Application number

EP 87300931.0

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.4)
A	US, A, 1 829 343 (L.E. DODOS) ---		E 06 B 9/264 E 06 B 9/52
A	NO, B, 125 157 (A.B. MULLSJÖVERKEN) ---		
A	US, A, 2 311 300 (R.R. DUBOUR) ---		
A	SE, B, 391 556 (G. SERNEBLAD) ---		
A	US, A, 1 993 050 (R.A. COOK) ---		

TECHNICAL FIELDS SEARCHED (Int. Cl.4)

E 06 B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
STOCKHOLM	24-04-1987	TÖRN L.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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D : document cited in the application
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