Dec. 25, 1923. 1,478,735

W. CZAPKOWSKY

WINDOW FASTENER

Original Filed May 25, 1921

Fig. 1.

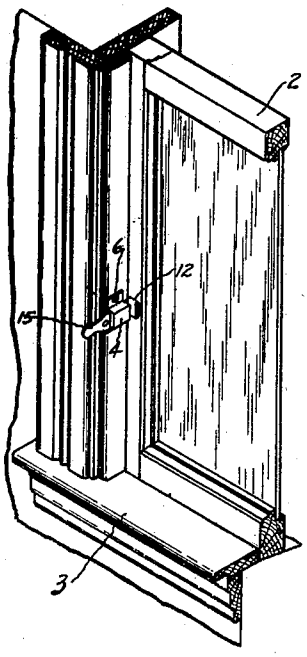


Fig. 2.

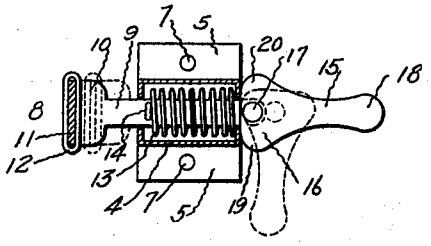
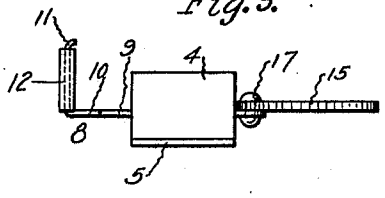


Fig. 3.



INVENTOR.

Wincenty Czapkowsky

BY

Smith Fitzmaurice

ATTORNEY.

Patented Dec. 25, 1923. 1,478,735

UNITED STATES PATENT OFFICE.

WINCANTY CZAPKOWSKY, OF HARTFORD, CONNECTICUT.

WINDOW FASTENER.

Application filed May 25, 1921, Serial No. 472,607. Renewed September 17, 1923.

To all whom it may concern:

Be it known that WINCANTY CZAPKOWSKY, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, has invented certain new and useful Improvements in Window Fasteners, of which the following is a specification.

This invention relates to what I shall for convenience term a "window fastener." Obviously the device can be used in connection with doors and other such sliding and movable structures. I provide an article which can be inexpensively made and which can be readily applied and which can be easily and quickly set into operative positions and which when in active relation will prevent not only with certainty the accidental descent of a window, door or equivalent part but which will prevent the rattle thereof whether it be down or in an adjusted position.

In the drawings accompanying and forming part of the present specification I have shown in detail one of the several advantageous forms of the embodiment of the invention which to enable those skilled in the art to practice the invention will be set forth fully in the following description. Clearly I am not restricted to this showing. I may depart therefrom in several respects within the scope of the invention defined by the claim following said description.

Referring to the drawings:

Figure 1 is a perspective view of a window and its frame with which is associated a fastener involving the invention.

Fig. 2 is a vertical sectional elevation of the fastener.

Fig. 3 is a plan view of the fastener.

Like characters refer to like parts in the several views which are on different scales.

As already observed the article is of general use. It is of particular utility, however, when associated with a window the sash of which is partly shown and is denoted by 2 the frame also partly illustrated being denoted by 3. None of the adjuncts of the sash 2 is shown. I have assumed that illustrated to be without cords and weights a form of structure in connection with which my device is particularly useful.

The fastener comprises a casing or boxing such as that denoted in a general way by 4 and closed top and bottom and front and rear and furnished as shown with laterally-extending side flanges 5 which fit flatwise against the vertical stile of the frame 3 at the desired height from the sill. The casing 4 may be held in place in any desirable way, screws 6 being shown for the purpose and being adapted to extend through perforations or holes 7 in the opposite side flanges 5 thus to rigidly hold the casing in place.

The fastening member shown is denoted in a general way by 8 and it is usually made from some flat sheet metal stock. It comprises as illustrated, an elongated shank 9 slidable through slots in the end walls of the casing 4 and having at its forward end the enlarged foot 10 from which is bent the flange 11 practically as shown at right angles to the body of the foot and covered with some sound-resisting and shock-absorbing material such as a strip or piece of rubber 12 which constitutes the working portion of the fastening member 8.

As shown the shank 9 within the casing 4 is surrounded by a coiled spring 13 the back end of which engages the rear wall of the casing 4 while the forward end of which engages a lug 14 on the shank. The spring as represented is a protractile type and it normally tends to advance the fastening member 8 at which time the lug 14 is contiguous to the forward or inner wall of the casing 4.

The fastening member 8 is retracted or drawn back at will in some convenient way, the actuator 15 being shown for the purpose. The actuator is practically in the form of a cam and it comprises a duplex cam-head 16 co-operative with the outer face of the rear wall of the casing 4 and connected flexibly as by the pivot 17, with the rearmost end of the shank 9. Generally the pivot is in the form of a rivet. From the cam-head 16 extends the manipulating or handle portion 18 by which the cam 15 may be rocked when required, to effect the retraction when required, of the fastening member 8. The cam-head 16 comprises opposite symmetrical and duplicate cam portions 19 and 20.

In Figure 1 and in full lines in Figures 2 and 3 the fastening member 8 is assumed to be in active relation its padded foot portion 11 being against the window frame so that the latter cannot be accidentally moved or fall or drop in case it is up. It will be assumed that it is desired to release the sash 2.

In this case the actuator 15 will be rocked as shown by dotted lines in Figure 2 thus causing the cam portion 19 to engage the outer face of the back wall of the casing 4 and owing to the fact that the actuator is connected with the shank or stem 9 drawing back the latter to the dotted line position in Figure 2 and carrying the pad 12 free of the sash 2 so that the same may be raised or lowered if it be up. When the shank 9 is drawn back in the manner described the coiled spring 13 is tensioned through the pressure of the lug 14 so that when the actuator is returned by hand from its shifted to its normal or full line position in Figure 2 the spring by reaction can impart a forward thrust to the shank 9 to cause the pad 12 to impinge against the window sash and hold it securely in position. When the actuator is oppositely rocked from the full line or mid position to a position exactly opposite to that shown by the dotted lines, the action already described will be repeated, that is to say as the actuator swings from the mid position the pad 12 will be drawn free of the window sash and will be subsequently returned to such position by the reacting spring 13 when the actuator is moved toward the initial position.

What I claim is:—

A window fastener comprising a casing closed on the top, sides and ends and open on the bottom, the sides having outwardly extending flanges, a shank extending entirely through the ends of the casing, a coiled spring surrounding the shank, the shank having a lug to be engaged by the forward end of the spring, the back end of the spring engaging the rear wall of the casing, the shank having a foot provided with a lateral flange, a soft wrapping around the flange, and an actuator pivoted to the rear end of the shank, for rocking movement, and having opposite symmetrical and duplicate cam portions, at opposite sides of the pivot to act alternately against the casing to draw back the shank when the actuator is oppositely rocked.

In testimony whereof I affix my signature.

WINCANTY CZAPKOWSKY.

In presence of—
SERENE E. TEMPLEMAN,
HEATH SUTHERLAND.