

No. 836,810.

PATENTED NOV. 27, 1906.

E. F. KAPUS.
WINDOW FASTENER.
APPLICATION FILED MAR. 29, 1906.

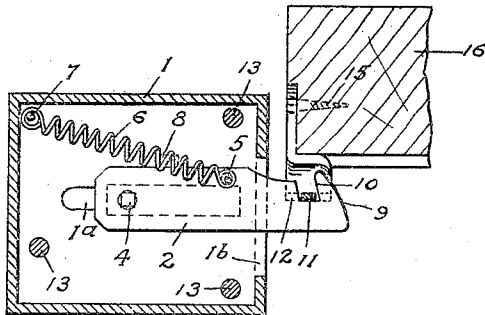


Fig. 1.

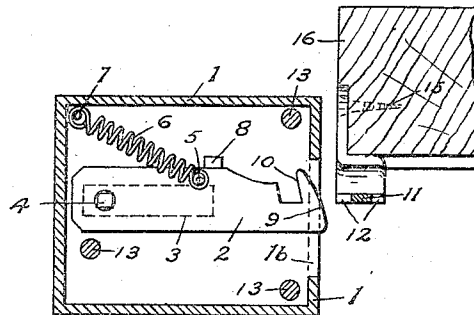


Fig. 2.

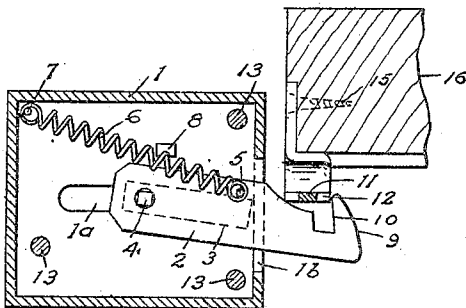


Fig. 3.

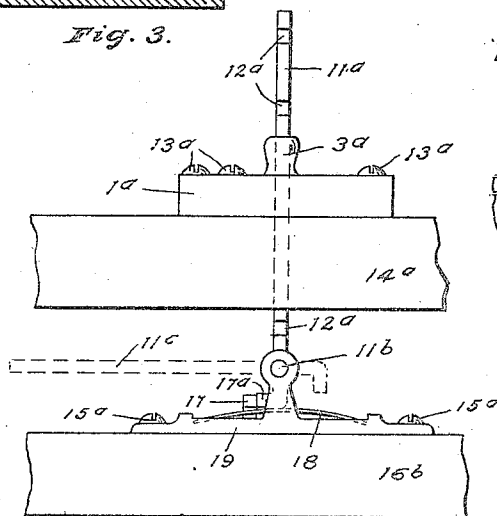


Fig. 5.

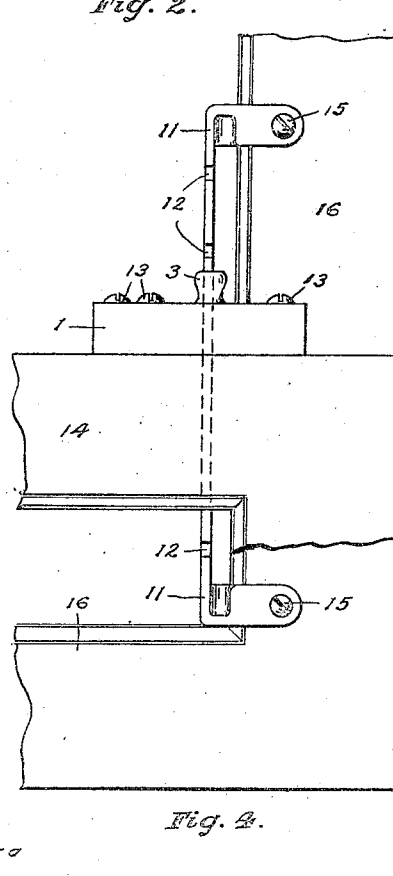


Fig. 4.

Witnesses

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WINDOW-FASTENER.

No. 836,810.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD F. KAPUS, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Window-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in window-fasteners, of which the objects are to provide a fastener which will automatically draw together and lock the two sashes of a window by simple and durable means, close the crevice between the two parting-rails of said sashes, and prevent said sashes from rattling, also be positive and reliable in its automatically-operated movements and which to automatically lock shall be set by but one quickly and easily accomplished movement and be unlocked automatically upon application of properly-applied pressure, and to so construct and arrange the parts of a window-fastener that the two sashes of a window may be so locked and drawn together as to allow of the upward and downward movement together of the two sashes locked thereby, and thus permit ventilation either below, above, or both below and above, said locked sashes by means that are in an ordinary sense inaccessible from the outside of said locked sash. I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a bottom plan of my invention in locked position with the lower portion of catch-bar broken away to avoid obscurity. Fig. 2 is a bottom plan of my invention, showing the locking parts in unlocked position. Fig. 3 is a bottom plan showing the locking parts in set position set for automatic locking of said parts. Fig. 4 is a front elevation of my invention as it appears when in use. Fig. 5 is a front elevation of one of the various forms in which my invention may be constructed as it appears when in use.

My invention consists of a case 1, having slots 1^a and 1^b formed therein, a latch-bar 2, slidably and pivotally secured in case 1, a thumb-piece 3 for operating latch-bar 2, a pivot 4 for latch-bar 2, a stud 5 on latch-bar 2, a spiral spring 6, a stud 7, secured to case 1, having one end of spring 6 secured to stud 7, while the other end of spring 6 is attached to stud 5, a stud 8, secured to case 1, to act as a rest-guide for latch-bar 2, a sloped surface 9

on the free end of latch-bar 2, and a catch-bar 11, having mortises or square notches 12 formed in its edges and adapted to receive the hook 10 of latch-bar 2, together with the screws 13 for securing case 1 to the sash 14 of a window and screws 15 for securing catch-bar 11 to the other sash 16.

In the operation of my invention case 1 is secured upon the upper surface of the upper rail of the lowersash 14 of a window by screws 13 in position seen in Fig. 4, and the catch-bar 11 is secured to the side piece of sash 16 by screws 15, as shown.

When it is desired to unlock the fastener, thumb-piece 3 is manually pressed until latch-bar 2 is rotated thereby on pivot 4 from the position seen in Fig. 1 until hook 10 is thereby passed from engagement with catch-bar 11, upon which spring 6 by stud 5 draws latch-bar 2 to the position seen in Fig. 2.

When it is desired to set the latch-bar 2 in position to be automatically locked on catch-bar 11, thumb-piece 3 is pushed toward catch-bar 11, and the sloped surface 9 will deflect the latch-bar 2 until the hook 10 passes catch-bar 11, upon which the spring 6 will draw latch-bar 2 to the position seen in Fig. 3, stopped by catch-bar 11, thus placing hook 10 and latch-bar 2 in what has been termed "set" position, after which hook 10 will be drawn by spring 6 into engagement with the first two of notches 12 that are brought into register with hook 10 by the raising or lowering of sash 14, thus automatically locking or fastening sash 14 to sash 16 in a positive and substantial manner.

In the before-described operation of latch-bar 2 said bar is guided by stud 8 and by pivot 4 traveling in slot 1^a, and latch-bar 2 is thus drawn, both transversely and longitudinally, by reason of the position of stud 7, which, placed to the rear and to one side of latch-bar 2, thus causes said latch-bar to be drawn by spring 6, as described.

It will be understood from the foregoing that the tension of spring 6 will continue to draw latch-bar 2 and by it the catch-bar 11, thus drawing the sashes 14 and 16 toward each other, thus closing any crevice (not shown) between them and preventing said sashes from rattling. It will also be seen and understood from the foregoing that by engagement of hook 10 with the lowest two notches 12 the sashes 14 and 16 will be locked in their closed position, which is well-known and is not shown, and also that the

position of sashes 14 and 16, as seen in Figs. 4 and 5, will allow both of said locked sashes to be raised or lowered together at pleasure and that the means by which said sashes are locked are not (in an ordinary sense) accessible from the outside of an ordinary window by reason of the location of said means, which is on or near the parting-rails of said sashes, thus providing what is ordinarily termed a "burglar-proof fastener" for said sashes.

While I have shown and described my invention in the foregoing manner, it is evident that I reserve the right to so variously proportion and arrange the parts of my window-fastener as to adapt the same to such variety of situations and services as practice may require without departing from the spirit of my invention. One of such forms is shown in Fig. 5, in which the latch-bar 11^a is pivotally attached to a frame 19, secured to the central part of the lower rail of an upper sash 16^b by screws 15^a, and said latch-bar 11^a is rotatable on its pivot 11^b to the position indicated at 11^c in order to not obstruct ordinary operations of cleaning glass (not shown) in sash 16^b. In this form of my invention, the curved lower end 17^a of catch-bar is movably held in position by pressure of spring 18 and is stopped to maintain erect position of catch-bar 11^a by lug 17, formed on frame 19.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a window-fastener; a case; a latch-bar, provided with a hook on the outer end

thereof, and slidably and pivotally secured in said case; a spring for actuating said latch-bar; means for guiding said latch-bar; means for securing said case to the upper rail of the lower sash of a window; a catch-bar, having suitable notches formed in the two edges thereof; means for moving said hook into and out of engagement with said notches, and means for securing said catch-bar on the upper sash of a window, as shown.

2. In a sash-fastener, a case, adapted to be secured on the upper rail of the lower sash of a window; a latch-bar, provided with a hook on the outer end thereof; means for slidably and pivotally securing said latch-bar in said case; a frame, adapted to be secured to the lower rail of the upper sash of said window; a catch-bar, having suitable notches therein, and means for securing its lower end to said frame, and means for pushing, guiding and drawing said hook into engagement with the notches in said catch-bar.

3. In a sash-fastener, a frame, adapted to be secured on the lower rail of the upper sash of a window; a catch-bar, provided with notches therein; a curved lower end of said catch-bar; a spring for movably holding said curved lower end, and stopping means, for stopping the curved lower end of said catch-bar.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD F. KAPUS.

Witnesses:

GEORGE E. HAUTZENRADER,
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