

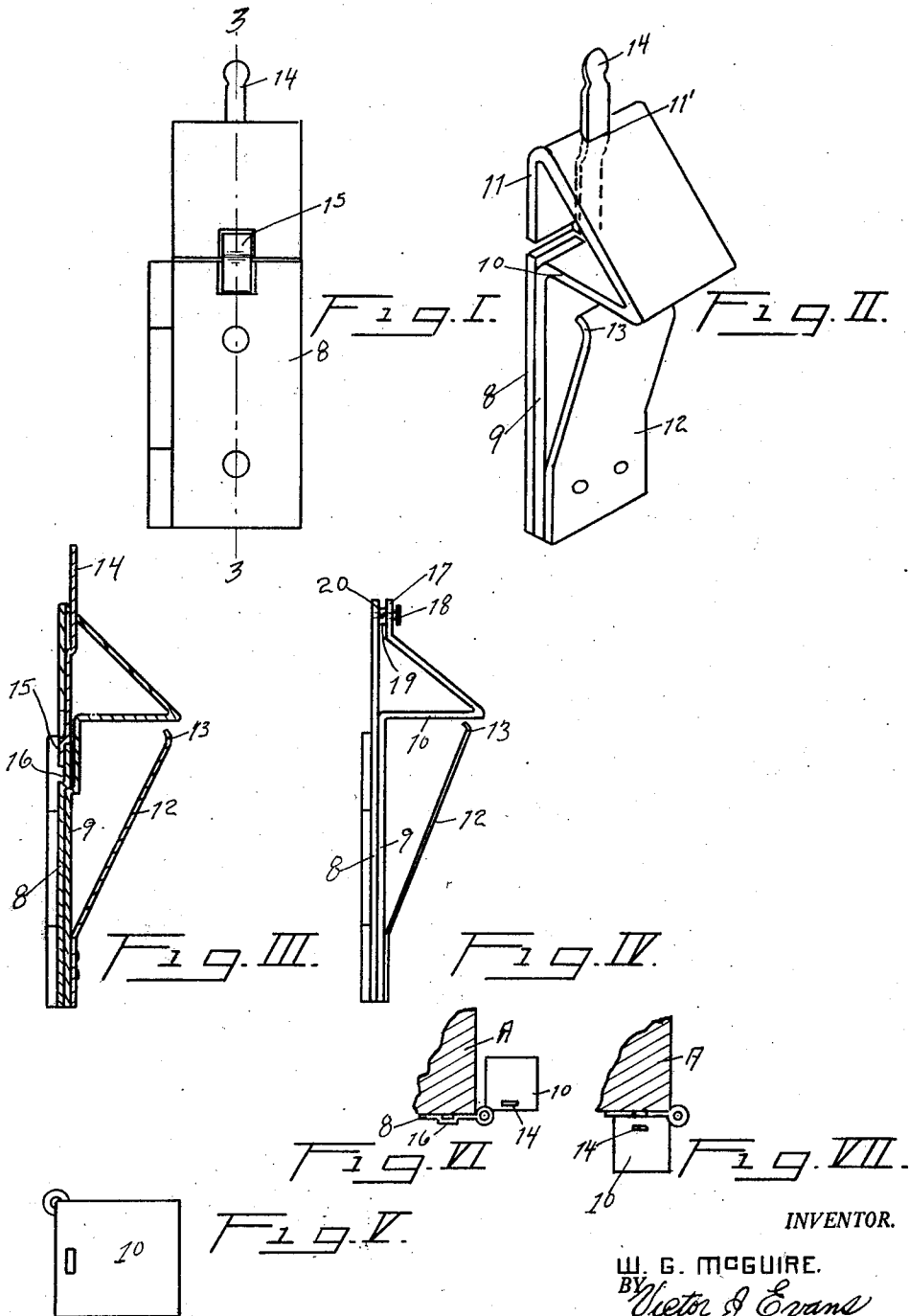
March 17, 1925.

1,530,385

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WINDOW STOP

Filed Jan, 30, 1924



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Patented Mar. 17, 1925.

1,530,385

UNITED STATES PATENT OFFICE.

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WINDOW STOP.

Application filed January 30, 1924. Serial No. 689,479.

To all whom it may concern:

Be it known that I, WILLIAM G. MCGUIRE, a citizen of the United States, residing at Hollywood, in the county of Los Angeles and State of California, have invented new and useful Improvements in Window Stops, of which the following is a specification.

This invention relates to improvements in window sash stops and has particular reference to a latch adapted to be applied to the window sash stop which will positively lock the stop in its locking position.

This type of latch construction is adapted to be used in conjunction with my window stop Patent Number 1,469,659 wherein a stop is provided which is adapted to be applied to sliding windows of the weighted type in which the upper and lower sashes slide up and down side by side. This type of stop permits the upper sash to be lowered or the lower sash to be raised sufficient for ventilation without making it possible to move either one or the other of the sashes a sufficient distance to enable a person to crowd himself through the opening.

Other objects and advantages of the present invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of my window stop with the latch arrangement applied thereto,

Figure 2 is a perspective view of the same,

Figure 3 is a transverse vertical section through the device the view being taken on the line 3—3 of Figure 1.

Figure 4 is a modified form of the locking device showing the use of a set screw for the latching purpose instead of the clip that is employed in the preferred form of the invention,

Figure 5 is a top plan view of the device,

Figure 6 is a similar view with a part of the window sash being shown in section and showing the position the device assumes when the same is in an unlocked position, and

Figure 7 is a similar view showing the position the device assumes when it is in a locked position.

I have found from experience that unless some positive means for latching the stop is provided that will lock the stop in its lock-

ing position, it will be possible for an unauthorized person to reach inside of the window with a wire, stick or the like and turn the lock and thus decrease the effectiveness of my window stop. To overcome this disadvantage and provide a latch arrangement whereby it will be practically impossible to release the stop without using the fingers, I have devised my present invention.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 8 designates a retaining or back metal plate of rectangular configuration which is detachably fastened to the upper window frame. If so desired, the frame may be recessed in order to receive the retaining plate, but in certain types of windows this construction will not be necessary because of the available space existing between the upper and lower sashes as they slide by each other.

Hingedly connected to the plate 8 is a vertically disposed locking member 9 which is provided with an upper angular extension 10 bent back upon itself so as to form an angle brace 11. This construction in reality forms an abutment, which serves as a stop to be thrown into locking position and by the contact of the mid rail of the lower sash prevents further movement of either of the sashes. Formed in the extension 10 I have provided a slot 11' the purpose of which will be later on described.

Riveted to the lower extremity of the locking member is a spring metal plate 12 which has its upper extremity inwardly flared as at 13. This plate 12 serves as an antirattling means. The numeral 14 designates a clip adapted to penetrate the opening 11 of the angular extension 10 so that after passing through the recessed portion 15 of the member 11, it will be received in a pocket 16 formed in the retaining plate 8. It will be observed that the clip 14 adjacent its lower extremity is offset, whereby a positive latching action is obtained.

In the modified form of the invention as disclosed to advantage in Figure 4, I propose to lengthen the back plate 8 and instead of continuing the extension to form the angle brace 11 as shown to advantage in Figure 2, terminate the extension so that it is bent vertical adjacent its upper extremity as indicated by the numeral 17 and is

adapted to lie in parallelism with, but spaced from the upper extremity of the back plate. It will be noted that the back plate 8 and the extremity 17 are apertured so as
5 to receive a headed pin or screw 18, while a washer 19 and a locking pin 20 are employed to retain the screw 18 in the device when the same is unlocked.

The operation of my device is as follows:—

When the stop has been applied to the window sash A and it is desired to lock the sash to prevent the entrance of an unauthorized person and yet at the same time
15 afford a certain amount of ventilation to the room, the locking plate 9 is swung in the position as shown to advantage in Figure 7. Upward movement of the lower sash will cause the extension 10 to retain
20 the lower sash from further upward movement and thus the lower sash will be locked. On the other hand, when it is desired to unlock the window so that the lower sash may be moved to its full length in the win-
25 dow casing, then it is only necessary to actuate the locking plate as shown to advantage in Figure 6, and the sashes will readily pass by each other.

When it is desired to retain the device in
30 its locked position, it is only necessary to

insert the clip 14 or adjust the screw 18, so that they assume the position shown in Figures 3 and 4, respectively, and then the stop will be positively locked and danger of tampering with the same by an unauthorized
35 person will be reduced to a minimum.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same, and that various changes in the shape, 40 size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I 45 claim:—

A device of the character described comprising a base plate adapted to be secured to the upper sash of a window, a vertically disposed locking plate hingedly connected 50 to the base plate and having an extension formed thereon, means detachably secured to the locking plate for retaining the device in a locked position, said means comprising a spring clip penetrating the extension of 55 the locking plate and having its extremity offset, for the purpose specified.

In testimony whereof I affix my signature.

WILLIAM G. MCGUIRE.