Oct. 2, 1923. 1,469,659

W. G. McGUIRE

WINDOW SASH STOP

Filed July 10, 1922

Fig.1.

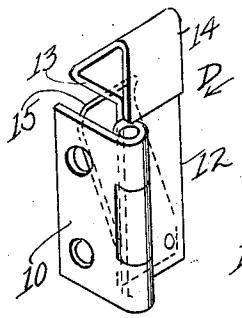


Fig.2.

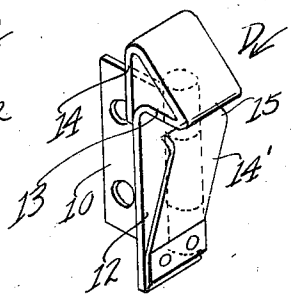


Fig.6.

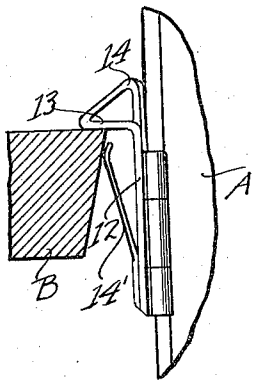


Fig.3.

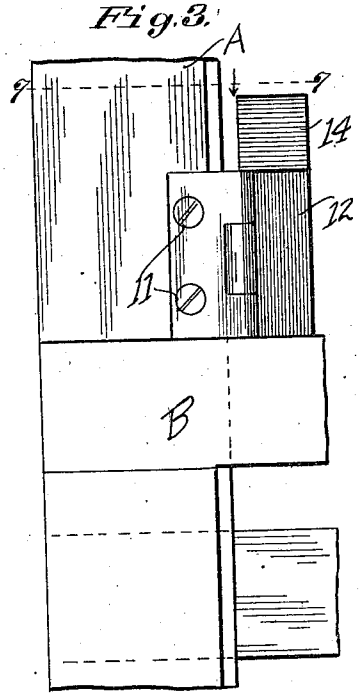


Fig.4.

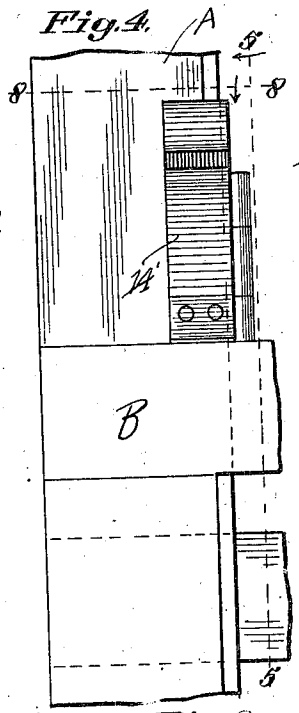


Fig.5.

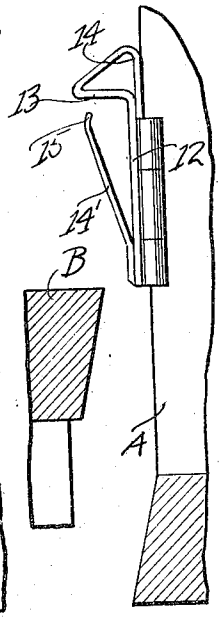


Fig.7.

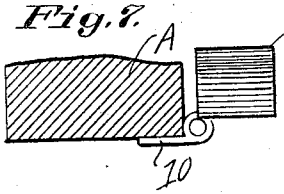
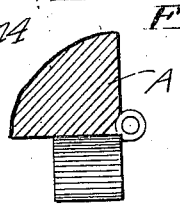


Fig.8.



Inventor.
W. G. McGuire.
Victor J. Evans
By attorneys

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UNITED STATES PATENT OFFICE.

WILLIAM G. McGUIRE, OF HOLLYWOOD, CALIFORNIA.

WINDOW-SASH STOP.

Application filed July 10, 1922. Serial No. 573,768.

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-Sash Stops, of which the following is a specification.

This invention relates to improvements in window sash stops, and has reference to a device 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.

The principal object of this invention is to provide a device adapted to serve as a stop, whereby the upper sash can be lowered or the lower sash raised a distance sufficient for ventilation without making it possible to move either one or the other enough to enable a person to crowd himself through the opening.

A further object of this invention is to produce a device of the character described so positioned with relation to the frame of an upper window sash that the device can be readily thrown from an operative or locked position to an inoperative or unlocked position to thus allow the complete opening of the window, when so desired.

Another object of this invention is to provide a device of the character described which is simple in construction, economical to manufacture, positive in operation, and highly serviceable, and a device which can be installed without altering the construction of conventional types of sliding windows.

An additional object of this invention is to construct the top so that its resisting power will be enhanced by the peculiar formation of the same.

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

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

Fig. 1 is a perspective view of the device per se, with the locking plate being shown in one position,

Fig. 2 is a similar view with the locking plate being shown in another position,

Fig. 3 is a side view of portions of the upper and lower sashes at the point where they slide one by the other, and showing where my device is applied and disclosing the device in an unlocked position with relation to the respective sashes,

Fig. 4 is a similar view showing the device in a locked position,

Fig. 5 is a side elevation of the device, showing the lower window sash in section, the view being taken on the line 5—5 of Figure 4,

Fig. 6 is a similar view with the lower sash shown in section and contacting with the lower plate,

Fig. 7 is a horizontal section through the upper sash taken on the line 7—7 of Figure 3, showing the position the locking plate assumes when the device is shown in an unlocked position, and

Fig. 8 is a similar view taken on the line 8—8 of Figure 4 showing the position the device assumes when it is in a locked position,

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the reference characters A and B designate upper and lower window sashes respectively. Upon the inside of the upper sash A and preferably at a point about six inches from the bottom of the sash frame, I propose to detachably secure my improved stop, which is designated as a whole by the reference character D. This stop embodies in its construction a retaining metal plate 10 of rectangular configuration which is detachably fastened to the frame by the fastening elements 11. If so desired, the frame may be recessed in order to receive the retaining plate 10, but in certain types of windows this will not be necessary due to the available space that is present between the upper and lower sashes as they slide up and down side by side.

Hingedly connected to the plate 10 is a vertically disposed locking member 12, which is equipped with an upper angular extension 13, bent back upon itself so as to form an angle brace 14. This construction or formation of the stop serves to increase its resisting power when the device is in operation and makes it strong to withstand both the impact of and resist the pressure incurred when the section B contacts with the extension 13.

Riveted to the lower extremity of the locking member is a spring metal plate 14'

which has its upper extremity 15 inwardly flared so as not to interfere with the contact of the lower sash with the extension 13 of the locking plate 12. By virtue of the inherent nature of the spring plate the same will serve to compensate for vibration that may exist when the sash is disposed beneath the extension 13 of the locking plate, and will thus serve as a means for preventing the rattling of the window by its contact with the sash B.

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 afford a certain amount of ventilation to the room, the locking plate 12 is swung into the position shown to advantage in Figure 4. Upward movement of the lower sash B, as shown to advantage in Figure 6, will cause the extension 13 to retain the lower sash from further upward movement and thus the window sash B 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 window casing, then it is only necessary to actuate the locking plate as shown to advantage in Figure 3, and the sashes will readily pass by each other.

It will be apparent from a consideration of the description and drawings of this invention that I have devised a locking device which will not only present a positive locking means for keeping unauthorized persons from entering a room but a device which has combined therewith an attachment adapted to prevent the rattling of a window with which it is associated.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, 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 claim:—

In a device of the character described, the combination with the upper and lower sashes of a window, of a base plate detachably secured to the upper sash, and means hingedly connected to said plate for retarding the upward movement of the lower sash, said means comprising a vertically disposed locking plate terminating in a curved upper extremity adapted to be moved into and out of locking relation with the lower sash, and a spring metal plate riveted to said locking plate adjacent the lower extremity thereof, substantially as and for the purpose described.

In testimony whereof I affix my signature.

WILLIAM G. McGUIRE.