March 2, 1926.

1,574,939

A. E. SCHARF

WINDOW SASH LOCK

Filed June 5, 1925

2 Sheets-Sheet 1

Fig. 1.

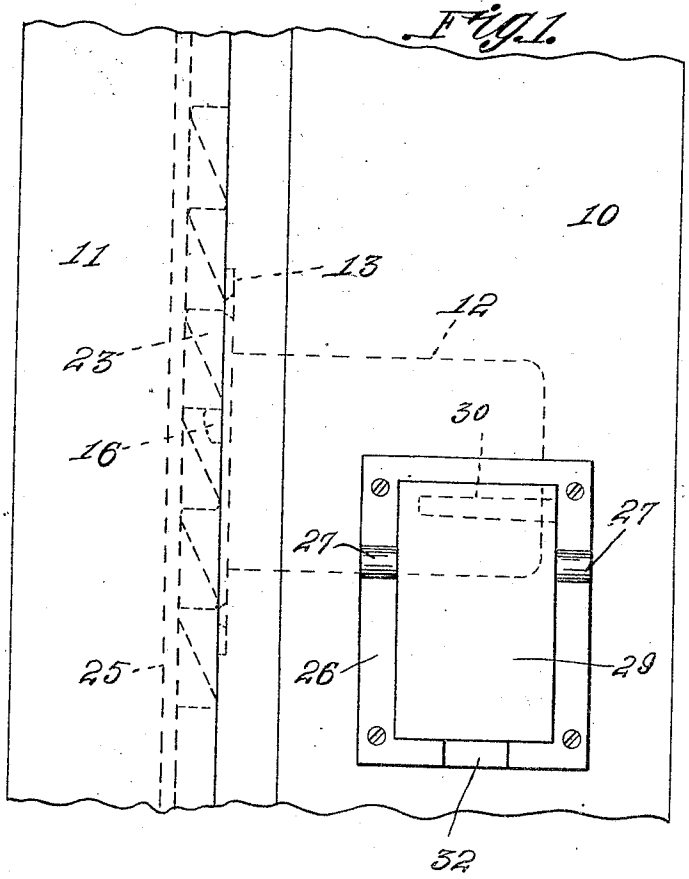
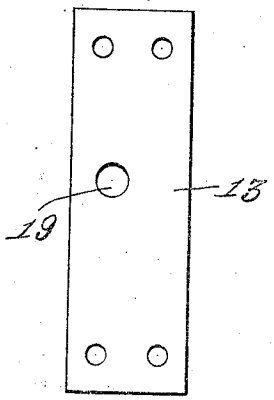


Fig. 7.



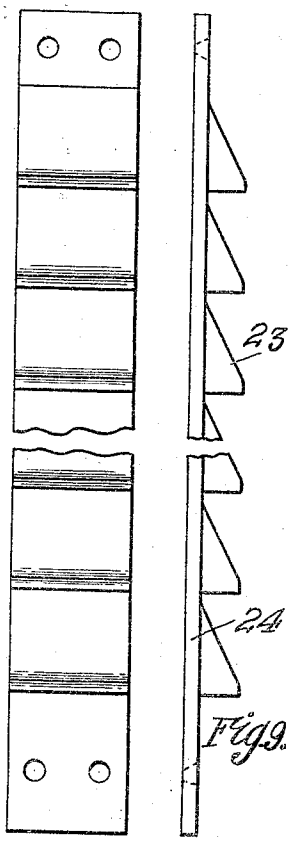


Fig. 8.

Fig. 9.

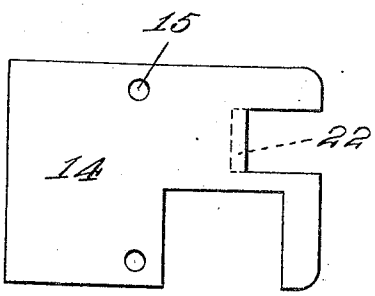


Fig. 10.

Arthur E. Scharf

INVENTOR

BY Victor J. Evans

ATTORNEY

WITNESS:

March 2, 1926. 1,574,939

A. E. SCHARF

WINDOW SASH LOCK

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Fig. 2.

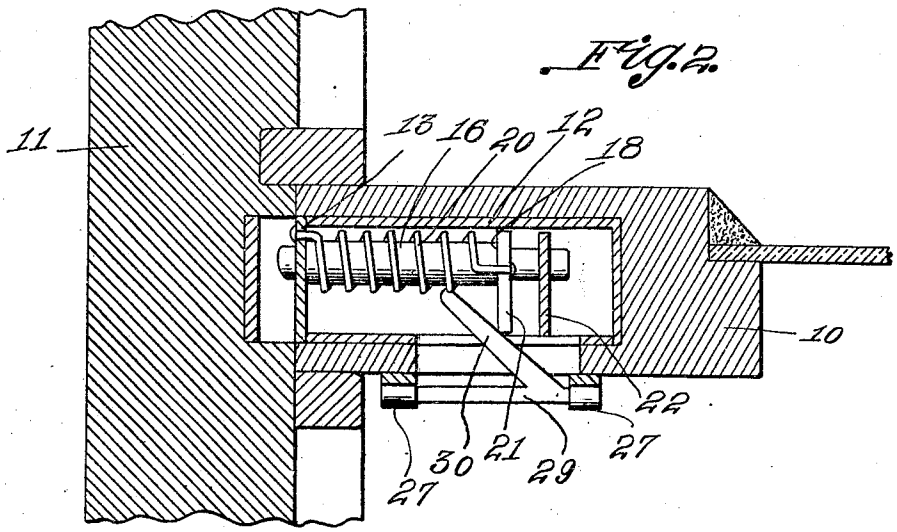
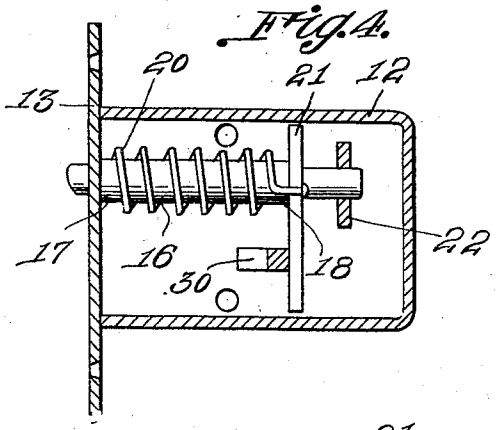


Fig. 4.



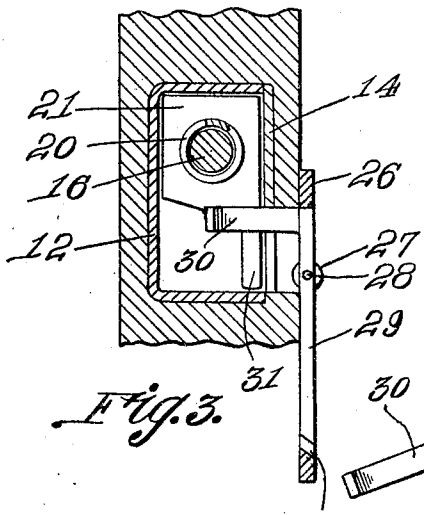


Fig. 3.

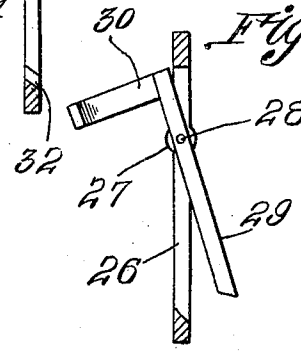


Fig. 6.

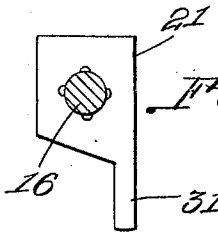


Fig. 5.

Arthur E. Scharf

INVENTOR

BY Victor J. Evans

ATTORNEY

WITNESS:

Patented Mar. 2, 1926. 1,574,939

UNITED STATES PATENT OFFICE.

ARTHUR E. SCHARF, OF MILWAUKEE, WISCONSIN.

WINDOW-SASH LOCK.

Application filed June 5, 1925. Serial No. 35,132.

To all whom it may concern:

Be it known that I, ARTHUR E. SCHARF, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Window-Sash Locks, of which the following is a specification.

This invention relates to improvements in window sash locks and has for an object the provision of a lock of this character which will permit of the window being lowered from either the inside or outside, but will effectually prevent its manipulation from the outside, so that the window may be securely locked either in closed or partly closed position.

Another object of the invention is the provision of a lock of this character which is simple in construction, efficient in use and will not present an unsightly appearance when installed.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is fragmentary elevation showing a portion of a window sash and frame with the invention applied.

Figure 2 is a horizontal sectional view of the same.

Figure 3 is a vertical section.

Figure 4 is a vertical sectional view through the lock removed from the sash, the section being taken substantially at right angles to Figure 3.

Figure 5 is an elevation of the bolt carried plate with the bolt in section.

Figure 6 is a detail sectional view showing the actuating plate.

Figure 7 is an end view of the lock casing.

Figure 8 is a face view of the frame rack.

Figure 9 is an edge view of the same.

Figure 10 is a face view of the removable cover for the lock casing.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates a portion of a window sash and 11 a portion of the sash frame.

The lock which constitutes the present invention is adapted to be placed within a recess provided in the sash and includes a casing 12 which has one of its ends extended and provided with screw openings to form an attaching plate 13, by means of which the lock casing may be securely held in place. The casing includes a removable cover plate 14 which is provided with openings 15 for the passage of screws or other fastening devices by means of which the cover plate is held in place.

Slidable within the casing is a locking bolt 16 whose opposite ends are reduced to provide spaced shoulders 17 and 18. One of the reduced ends of this bolt extends through an opening 19 provided in the plate 13, the shoulder 17 engaging the inner face of this plate to limit outward movement of the bolt. The bolt is yieldingly forced outward by means of a spring 20 which has one of its ends secured to the plate 13 as shown in Figure 2 of the drawings and its opposite end secured to a plate 21, the latter in turn abutting the shoulder 18 of the bolt and being secured rigidly to the bolt. The width of this plate 21 is substantially the same as the width of the casing 12, the said plate 21 having a sliding fit within the casing and acting to hold the bolt against rotation as well as to prevent rotary movement of the plate. The inner reduced end of the bolt 16 is slidable through an opening provided in a guide bracket 22, the latter being struck and bent inwardly from the cover plate 14.

The outer end of the bolt 16 is preferably slightly beveled and is adapted to engage spaced teeth 23 which extend from a plate 24, the latter being secured within a recess 25 provided in the window frame 11. A toothed rack is thus provided for engagement by the bolt 16 which permits downward movement of the window sash but holds said sash against upward movement.

Secured to the inner face of the sash 10 is a frame 26 and mounted in bearings 27 provided in this frame are trunnions 28, the latter extending from a plate 29 which is positioned within the frame 26. Extending from the inner face of the plate 29 is a finger 30 which is shown in Figures 2, 3, 4 and 6 of the drawings. The plate 21 is provided with an extension or finger 31 and

the latter is located in the path of the finger 30 when the lower end of the plate 29 is moved pivotally outward. When this movement occurs, the finger 30 will engage the finger 31 and due to the character of the finger 30, the plate 21 will be moved in a direction to draw the outer end of the bolt inward and release the same from the teeth 23. The window sash may then be elevated. As the plate 29 which forms the actuating plate for the lock is placed upon the inside of the window sash, the latter can only be released from the inside of the window. The frame 26 is preferably provided with a recess 32 so that the outer end of the plate 29 may be conveniently moved outward.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

A window sash lock comprising a sash carried casing, a bolt slidable within the casing, means carried by the window frame for engaging with the bolt, a substantially rectangular plate secured to the bolt within the casing and engaging the latter to prevent rotary movement of the bolt and plate, means to yieldingly force the bolt to engage the frame carried means, a pivotally mounted actuating member carried by the sash, a finger carried by the actuating member and extending into the casing and an extension provided upon the bolt carried plate, said extension being located in the path of the finger when the actuating plate is moved pivotally to retract the bolt.

In testimony whereof I affix my signature.

ARTHUR E. SCHARF.