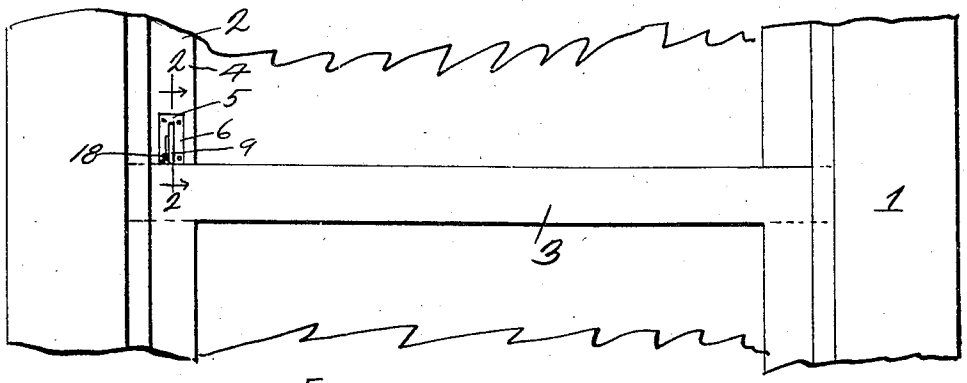
March 4, 1924. 1,485,382

J. A. FOLEY

AUTOMATIC SASH LOCK

Filed Feb. 15, 1923

Fig. 1.



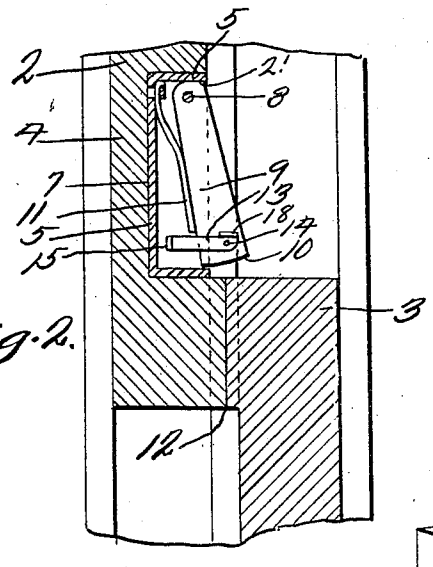


Fig. 2.

Fig. 3.

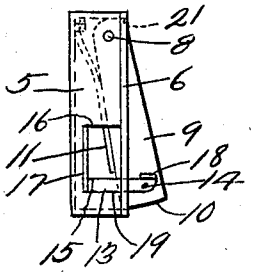
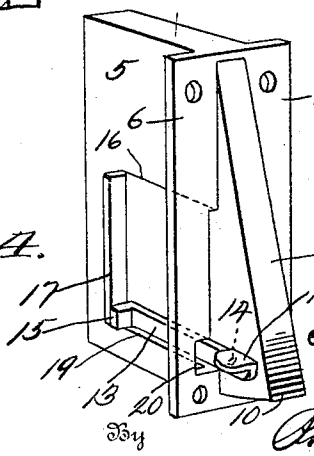


Fig. 4.



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UNITED STATES PATENT OFFICE.

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AUTOMATIC SASH LOCK.

Application filed February 15, 1923. Serial No. 619,109.

To all whom it may concern:

Be it known that I, JAMES A. FOLEY, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Automatic Sash Locks, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to sash locks, and has for its object to provide a device of this character adapted to be secured and imbedded in the side rail of the upper sash and provided with a pivoted spring actuated member adapted to be forced outwardly to overlie the upper side of the lower sash, thereby preventing either sash from being moved.

A further object is to provide the pivoted spring actuated member with a pivoted arm adjacent its free end, which arm extends rearwardly into the casing of the device and terminates in a right angled arm extending through an opening in the side of the casing and into engagement with an out-turned flange. The pivoted arm forms means for preventing inward movement of the pivoted member when an instrument is inserted between the engaging sides of the sashes for moving the pivoted member out of operative position.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:—

Figure 1 is a view in elevation of the adjacent portions of window sashes disposed in a window frame.

Figure 2 is a vertical transverse sectional view taken on line 2—2 of Figure 1.

Figure 3 is a side elevation of the sash lock, showing the same in locked position.

Figure 4 is a perspective view of the sash lock.

Referring to the drawing, the numeral 1 designates a conventional form of window frame, 2 the upper sash carried thereby and 3 the lower sash. Embedded in the side rail 4 of the upper sash is a rectangular shaped casing 5, which casing at its outer side is provided with flanges 6 for the reception of screws when the device is secured to the rail 4 and in the recess 7 thereof. Pivotally mounted at 8 within the chamber of the casing 5 is a downwardly extending pivoted member 9, the lower end 10 of which is adapted to be forced outwardly by the leaf spring 11 to the position shown in Figure 2, for overlying the upper side of the lower sash 3, where it will be in the path of the sash and prevent the lower sash or upper sash from being moved to an open position. It has been found that in catches of this character, unauthorized persons insert an instrument between the sashes at 12, and manipulate the pivoted member 9 in such a manner that the lower sash 3 or upper sash 2 can be moved without interference from the adjacent sash. To overcome this difficulty an arm 13 is pivotally connected at 14 adjacent the lower end of the pivoted member 9, which arm extends into the casing 5 in substantially a horizontal position and terminates in an outwardly extending rectangular shaped portion 15, which portion extends through the opening 16 in the side of the casing 5 to a position where it will engage the vertically disposed out turned flange 17 and will prevent the pivoted member 9 from being forced inwardly. When it is desired to move the sashes in relation to each other, the operator presses downwardly on the finger engaging member 18, which action will move the inner end of the arm 13 upwardly, and at which time the pivoted member 9 may be forced inwardly, and held inwardly by the finger of the operator against the action of the finger of the operator until one of the sash is moved.

It will be seen that the device positively locks the sashes against movement, and that the device may be easily applied to a window sash. It will also be seen that the locking device is positively locked and cannot be moved until the pivoted arm 13 is moved from its substantial horizontal position. The downward movement of the pivoted arm 13 is limited by the engagement of the outwardly extending arm 15 with the lower side 19 of the opening 16 of the casing. It will also be seen that the out turned flange 17 reinforces the devices at points where strain will come on the same incident to the device being forced by the insertion of an instrument between the sash at 12.

One of the flanges 6 is provided with a recess 20, through which the finger engaging member 18 will pass when the pivoted arm 13 is moved upwardly at its free end during the inward movement of the pivoted member 9. The pivoted member 9 is limited in its outward movement by engagement of the shoulder 21 thereof with the upper end of the casing 5 as clearly shown in Figure 2, therefore the pivoted member cannot be forced outwardly beyond a certain position at its lower end.

The invention having been set forth what is claimed as new and useful is:—

1. The combination with an upper window sash, a lower sash, of a sash lock, said sash lock comprising a casing imbedded in the upper sash adjacent the upper end of the lower sash, a member pivoted in the upper end of the casing and extending downwardly, a leaf spring disposed within the casing and normally forcing the pivoted member outwardly at its lower end to a position where it will be in the path of the lower sash, an arm pivoted to the lower end of the pivoted member and extending into the casing, said arm terminating in an outwardly extending arm disposed in an opening in the side of the casing and cooperating with the rear side of the opening for holding the pivoted member against inward movement.

2. A sash lock comprising a casing adapted to be imbedded in a sash, a member pivotally mounted in said casing adjacent its upper end and having its free end downwardly disposed to overlie an adjacent sash, a leaf spring within the casing for normally forcing the pivoted member outwardly at its lower end, a shoulder carried by the pivoted member and cooperating with the casing for limiting its outward movement, a member pivoted adjacent the lower end of the pivoted member and cooperating with the casing for locking the downwardly extending pivoted member against inward movement, said locking member when moved upwardly at its free end allowing the downwardly extended pivoted member to be moved into the casing.

In testimony whereof I hereunto affix my signature.

JAMES A. FOLEY.