Feb. 2, 1932. W. D. POOLE 1,843,402

WINDOW SASH LOCK

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Fig. 1.

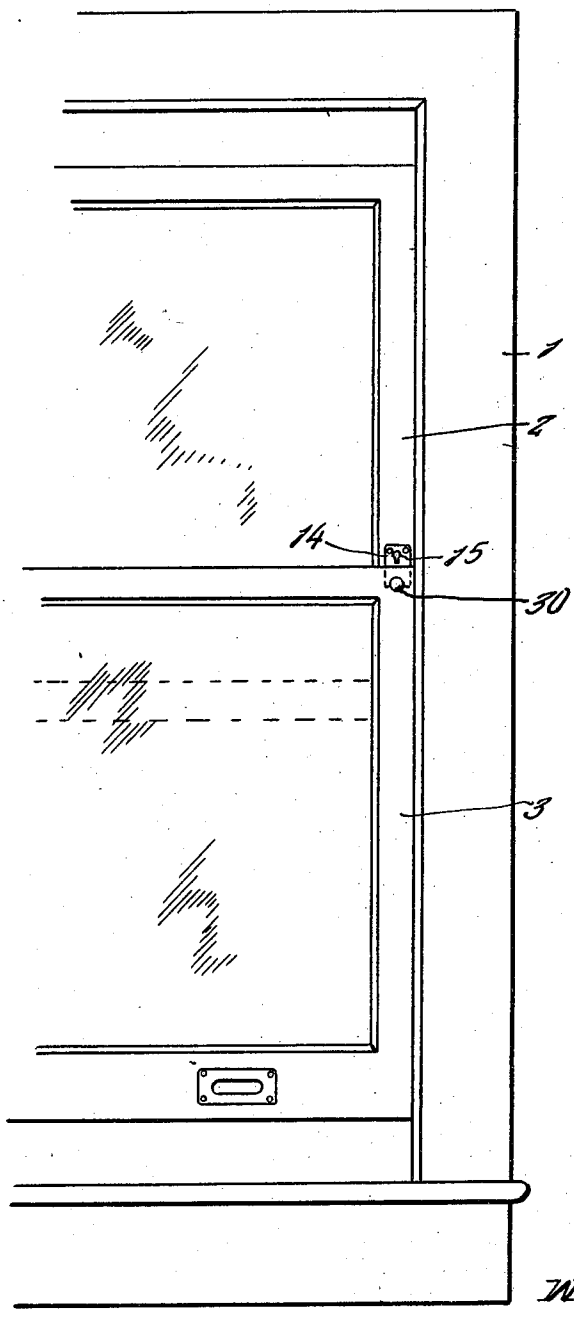
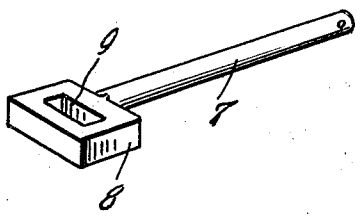


Fig. 6.



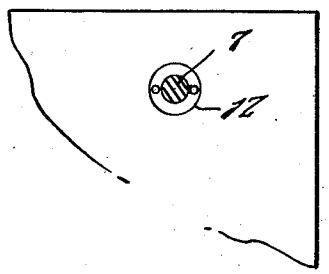


Fig. 7.

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Fig. 2.

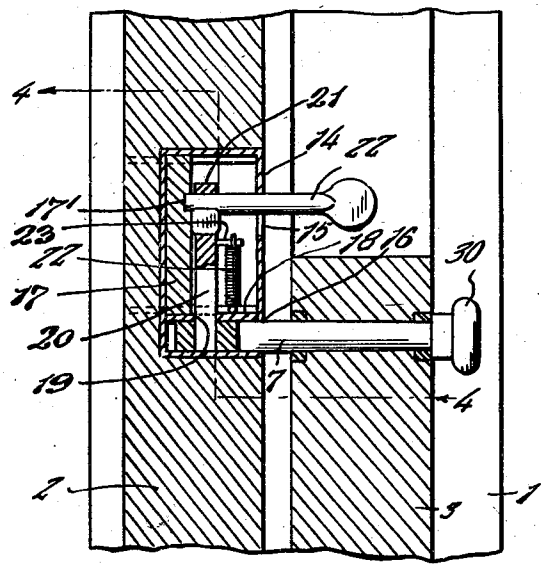


Fig. 3.

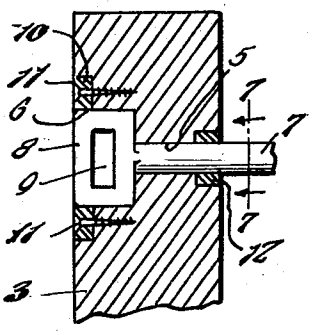


Fig. 4.

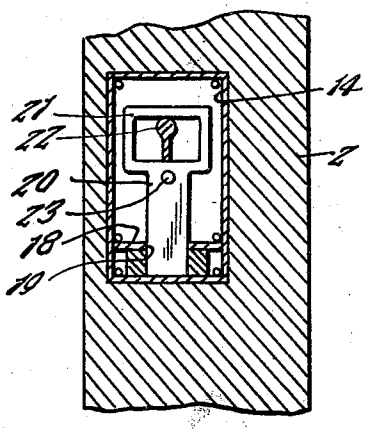
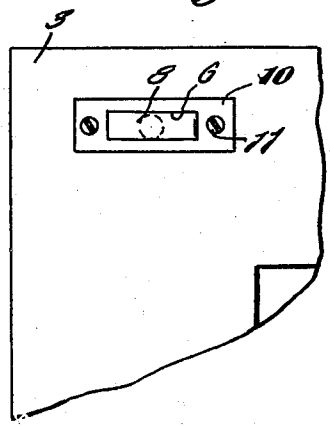


Fig. 5.



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UNITED STATES PATENT OFFICE

WILLIS D. POOLE, OF GREENSBORO, NORTH CAROLINA

WINDOW SASH LOCK

Application filed July 20, 1929. Serial No. 379,821.

The present invention relates to improvements in window sash locks and has for an object the provision of a device of this character so constructed that it will permit the upper and lower sashes of a window to be interlocked whereby the respective sashes may be partially opened and locked without any fear of intruders being at liberty to undo the lock and open the window from the outside.

Another object of the invention resides in the provision of a lock of this nature which is exceedingly simple in construction, cheap to manufacture and easy to install, and one that is not apt to get out of order due to its few working parts.

With these and other objects in view, the invention consists in the novel features of construction, combinations of elements and arrangements of parts which will be fully set forth in the following description and claim, and illustrated in the accompanying drawings, in which:

Figure 1 is a fragmentary side elevation of a window comprising the present invention,

Figure 2 is a vertical sectional view to illustrate the locking features,

Figure 3 is a horizontal section showing the shank and head of the lower sash retracted,

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 2,

Figure 5 is an elevation of one inside upper corner of the lower sash,

Figure 6 is a perspective view of the shank and head for the lower sash, and

Figure 7 is a sectional view taken substantially on the line 7—7 of Figure 3.

Referring to the drawings in detail, the numeral 1 designates a window frame in which is mounted upper and lower sashes 2 and 3 respectively. In one of the upper corners of the lower sash 3 there is formed an opening 5 merging into a pocket or recess 6.

A shank 7 is slidable in the opening 5 and has a rectangular head 8 slidable into and out of the pocket or seat 6 and formed with a rectangular opening 9. An escutcheon plate 10 is disposed about the entrance of the pocket 6 being held in place by screws 11 or other suitable means. A bearing 12 is mounted in the opening 5 at one end to slidably receive the shank 7.

In the adjacent side rail of the upper section 2 there is mounted a casing 14 with a key hole 15 and a rectangular opening 16 through which head 8 is slidable. A vertical block 17 is mounted in the casing 14 adjacent the inside wall thereof and rises from a partition 18 across the lower portion of the casing 14 immediately above the opening 16 and formed with an opening 19 through which a bolt 20 is slidable having a rectangular frame 21 formed on the upper end thereof, through which a key 22 may be extended for raising the bolt 20. The block 17 is provided with a socket 17′ for rotatably receiving and supporting the inner end portion of the key 22 in the manner illustrated to advantage in Figure 2 of the drawings.

This bolt 20 is normally held downwardly by means of a spring 22 anchored at its bottom end on the partition 18 and at its upper end on a pin 23 projecting laterally from the bolt 20.

The sashes are interlocked as shown in Figure 2. When it is desired to unlock these sashes the key 22 is turned to raise the bolt 20 out of the opening 9 and then knob 30 is pulled to slide the shank 7 so as to withdraw the head 8 from the casing 14 into the pocket or recess 6 and then the sashes are free to move. To lock the sashes it is necessary to actuate the key 22 to raise the bolt 20 and then the knob 30 is shoved inwardly to push the shank 7 and move the head 8 out of the seat 6 through the opening 16 into the bottom of the casing 14 and then by turning the key the spring 22 will force the bolt 20 downwardly into the opening 9 thus again locking the sash.

From the foregoing description it will be seen that a window sash lock has been produced which is extremely simple in construction, durable, efficient in operation, and one which can not be opened by persons outside of the building.

The present embodiment of the invention

has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

A window sash lock of the character described comprising a casing mounted in an upper sash and having a keyhole therein, said casing being further provided with a bolt receiving opening beneath the keyhole, a partition in the casing above the bolt receiving opening, said partition having an opening therein, a vertically disposed block mounted in the casing on the partition having a socket therein in alignment with the keyhole, a bolt slidably mounted in the lower sash and operable through the bolt receiving opening in the casing, a head on the inner end of the bolt having an opening therein registerable with the opening in the partition, a bolt mounted in the casing and slidable through the partition opening for engagement in the head opening in a manner to retain said head in the casing, a frame on one end of the second named bolt for operative engagement by an actuating key for withdrawing the second named bolt from the head opening, the key being insertible in the casing through the keyhole and rotatably engageable in the socket in the block for support thereby, and a spring connected to the second named bolt for yieldingly urging same toward its operative position.

In testimony whereof I affix my signature.

WILLIS D. POOLE.