Feb. 18, 1930. C. GROSSE 1,747,707

WINDOW LOCK

Filed May 11, 1928

Fig. 1.

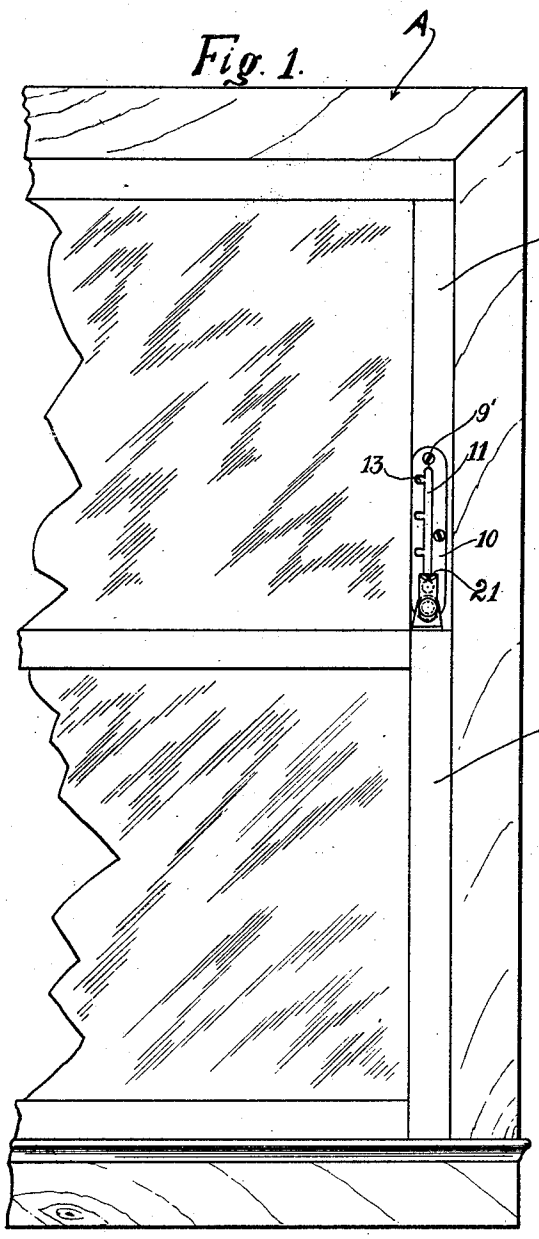


Fig. 2.

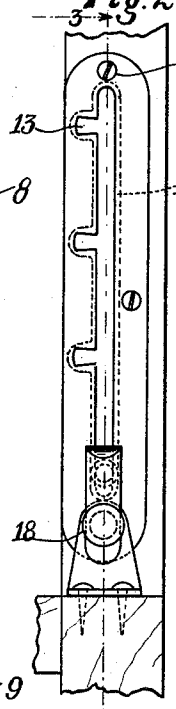
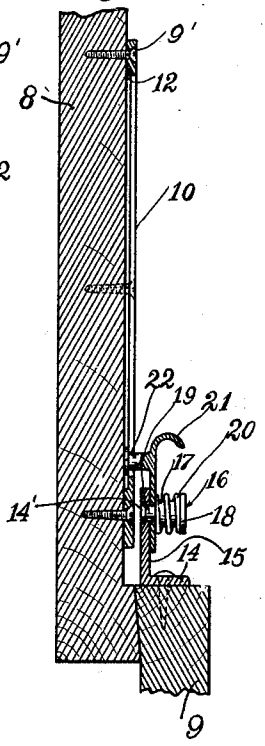


Fig. 3.



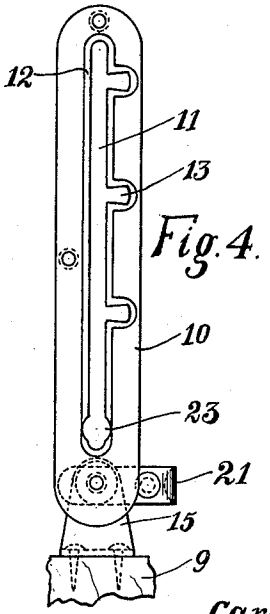


Fig. 4.

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UNITED STATES PATENT OFFICE

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WINDOW LOCK

Application filed May 11, 1928. Serial No. 276,891.

My invention relates to window locks, and more particularly to window sash locks, having for its object the provision of a device of the kind described of comparatively simple and inexpensive construction, convenient of operation, and particularly adapted for quantity production.

Other objects and advantages of the construction and arrangement of parts will appear more fully in the hereinafter specification when taken in connection with the accompanying drawings, in which,

Figure 1 is a perspective view of a window frame, showing my device applied to the sashes thereof.

Figure 2 is a face view of my device as shown on the inner side of the window.

Figure 3 is a longitudinal sectional view of my device.

Figure 4 is a bottom plan view thereof.

In the drawings wherein similar characters of reference indicate corresponing parts in the several views, A designates a window frame having upper and lower sashes, 8 and 9 respectively. On the upper sash 8 I secure by screws 9′ the keeper member 10. The keeper is die-stamped from a sheet of metal in a manner to form a slot 11. About the slot, a countersunk portion 12 is circumscribed which is adapted to serve as a sliding seat for a stud bolt 22 integral with a finger lug member to be hereinafter described.

On one side of the slot, a series of notches 13 are provided into which the stud bolt is adapted to enter for the purpose of securing the window sashes in open position to the extent indicated by the distance apart of the several notches.

The cooperating member of my window lock comprises a bracket 14 having a flange 15 adapted to be secured by screws to the upper rail of the lower window sash 9. As best shown in Figure 3 in the wall of the bracket 14 a hole 14′ is provided to receive a stud bolt 16 having a shouldered portion 17 and an upper head 18. The other end of the stud bolt is provided with a smaller head 19 which seats in the countersunk part of the hole. Yieldingly clamped to the wall of the bracket 14 by a spring 20 which coacts with the head 18 of the stud bolt 16, is a finger lug 21 having an integral bolt head 22 projecting at right angles therefrom. The bolt head 22 seats against the countersunk portion 12 which surrounds the slot 11, being adapted to ride therein as the sashes are raised and lowered.

When it is desired to secure the window sashes in an open fixed position, the shaft of the bolt head 22 is thrust into one of the notches 13, whereby the sashes may be maintained in secure open position. If it is desired for any reason to open the windows beyond the scope provided by the slot 11, it will merely be necessary when both sashes are closed, to operate the finger lug 21 against the spring 20, whereupon the bolt head 22 will pass out of the circular opening 23, which will permit the finger lug 21 to be placed at right angles to the bracket 15, in inoperative position, as best shown in Figure 4. To make the device again operative, the bolt head 22 is repassed through the hole 23 whereupon the lock will resume its normal functions. The window sashes are now free to be raised and lowered to their fullest extent without interference.

The purpose of the window lock is to provide a method of preventing unauthorized entrance into a house or building while permitting a reasonable amount of ventilation. It is, of course, obvious that the slot 11 may be made as long as the side rail of the window sash itself which would permit, if desired, the windows to be raised to their fullest extent and then secured as indicated. It is generally preferable, however, to restrict the locking device to the limits illustrated for the reason that if the sashes are open wide enough, entrance may be effected through the window frame.

It will be evident that minor changes of construction and arrangement of parts may be resorted to if desired, without departing from the spirit or sacrificing any of the advantages of my invention as defined within the scope of the appended claims.

What I claim and wish to secure by Letters Patent is:

1. A window sash lock comprising a keeper

having a slot circumscribed by a countersunk portion on the keeper, a plurality of notches formed in said keeper and communicating with said slot, a finger operated lug having a shank riding in said slot, said shank being surmounted by an integral head riding in said countersunk portion and anchoring in said notches, and means connected to and coacting with said finger lug to maintain it in position and release said integral head from said slot.

2. A window sash lock comprising a keeper having a slot, a plurality of notches communicating with the slot, a finger lug actuated by a spring, said lug having an integral head slidable in the slot, a bracket having an aperture registering with a hole in the finger lug, a shaft on the integral head passing through said holes, and a spring coacting with said integral head and said bracket to yieldingly maintain in position in the slot and release therefrom when desired, said integral head.

3. A window sash lock, comprising a keeper having a slot circumscribed by a countersunk portion on the keeper, a plurality of notches communicating with said slot and countersunk portion, a circular opening at the bottom of the slot to admit a head on a finger lug, said lug being resiliently and pivotally connected to a rigidly secured bracket whereby means are provided to optionally engage and disengage said keeper and said bracket.

4. In a window locking device a keeper having a longitudinal slot with communicating notches therein, a circumscribed shoulder about said slot, a bolt having a head received by said slot and slidably confined by said shouldered portion, said head being integral with a finger lug yieldingly and pivotally mounted on a bracket secured to a lower window sash, and means to disengage said lug from said keeper when desired, said finger lug being adapted to be placed at right angles to said bracket when in inoperative position.

In testimony whereof I have signed my name to this specification.

CARL GROSSE.