F. F. MALSBURY.

SASH LOCK.

APPLICATION FILED OCT. 11, 1916.

1,216,241.

Patented Feb. 13, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

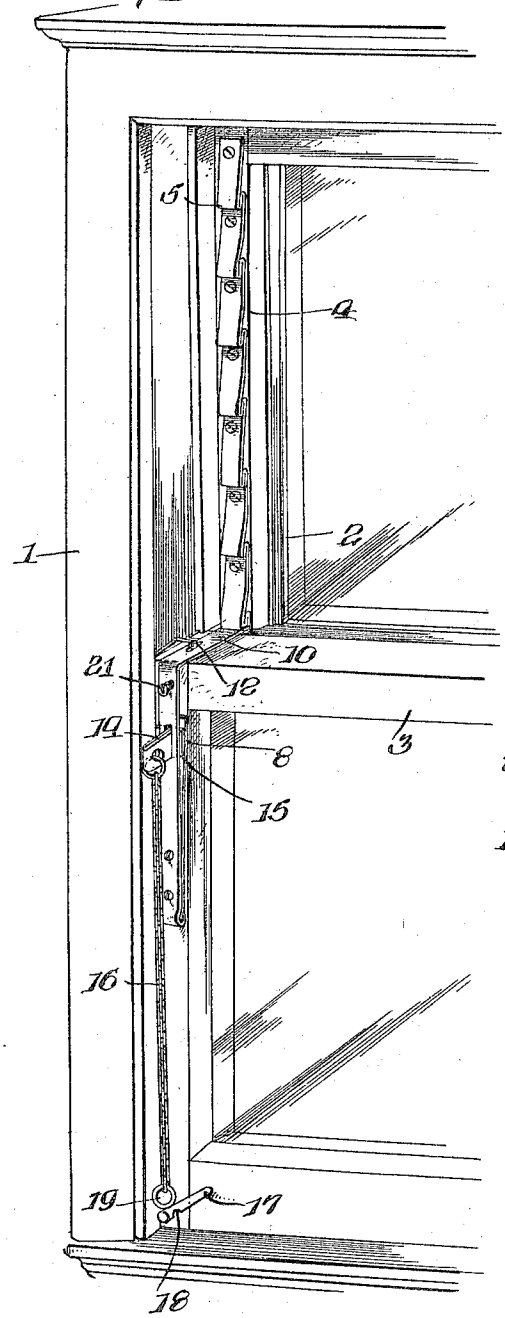
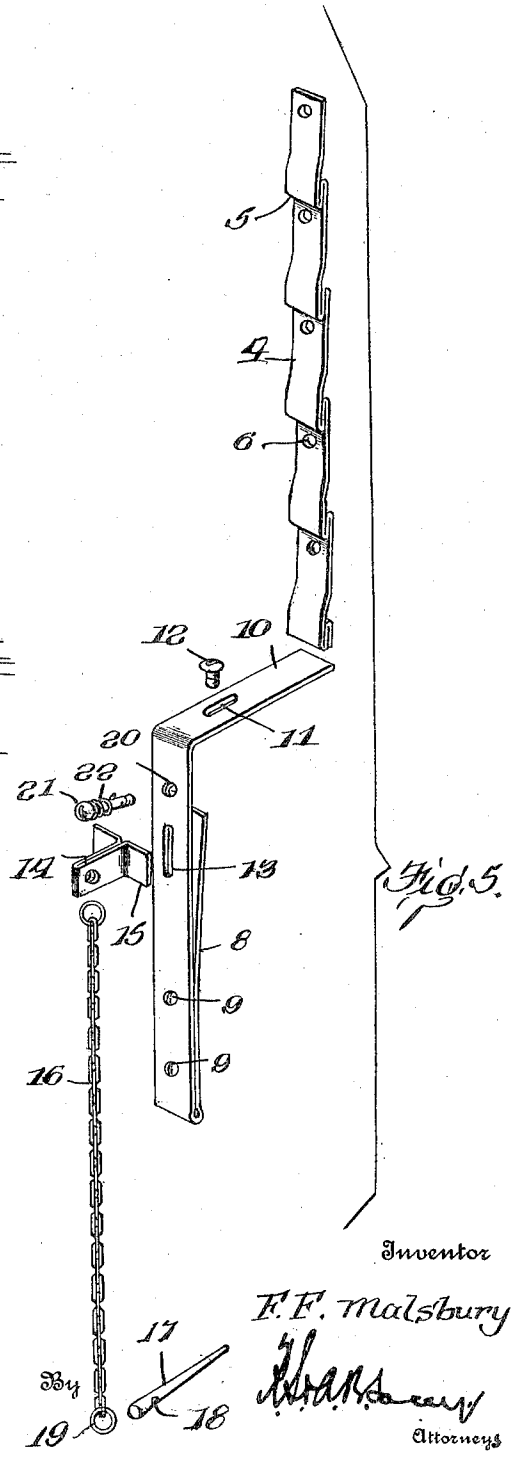


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 2.

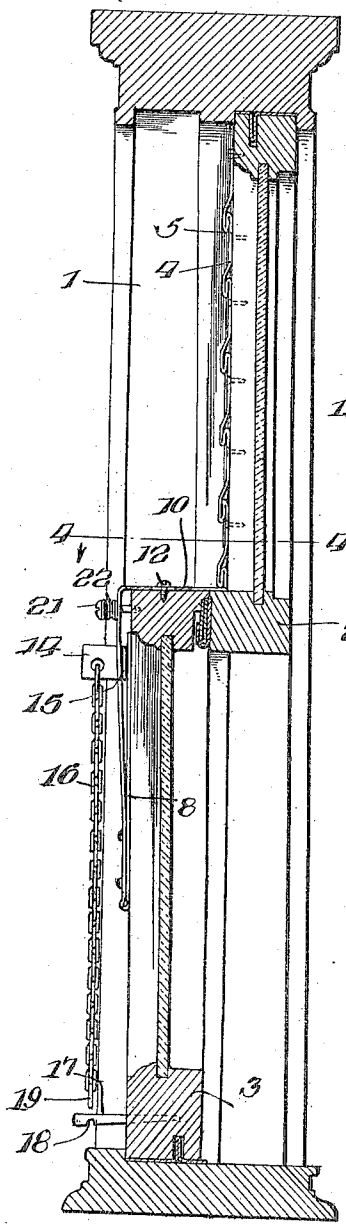


Fig. 4.

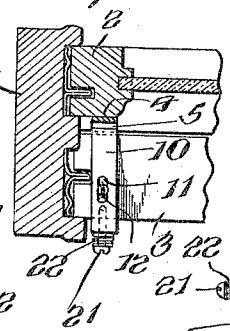
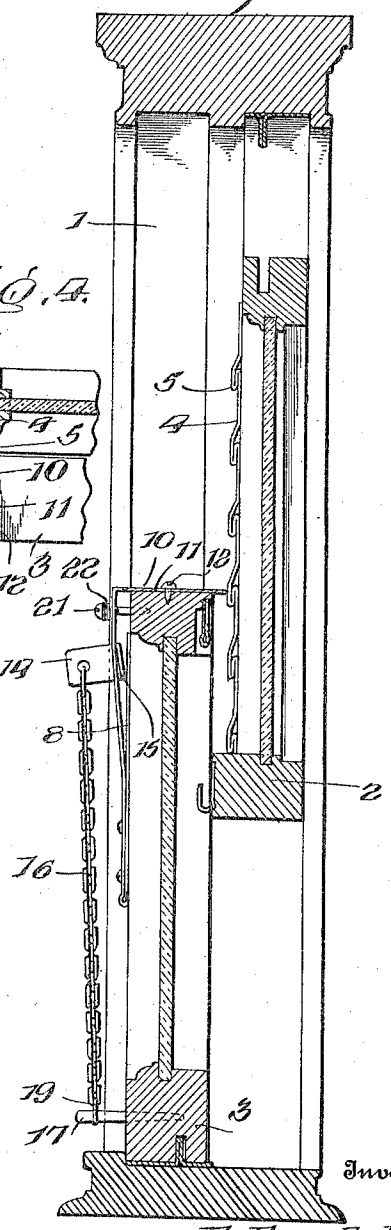


Fig. 3.



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SASH-LOCK.

1,216,241. Specification of Letters Patent. Patented Feb. 13, 1917.

Application filed October 11, 1916. Serial No. 125,083.

To all whom it may concern:

Be it known that I, FRED F. MALSBURY, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Sash-Locks, of which the following is a specification.

This invention relates to sash locks and has for its object the provision of a simple, inexpensive and efficient device whereby a sash may be locked against opening from the outside of a building.

A further object of the invention is to provide a device for the stated purpose which may be readily manipulated to permit movement of the sash.

And a still further object of the invention is to provide a device which will occupy very little room upon the sash and will not be unsightly when in place.

The invention is illustrated in the accompanying drawings and will be hereinafter described, the novel features being subsequently particularly pointed out in the claims.

In the drawings:

Figure 1 is a perspective view of a window having my improved sash lock applied thereto;

Figs. 2 and 3 are vertical sections, showing the sash closed and open, respectively;

Fig. 4 is a detail horizontal section on the line 4—4 of Fig. 2;

Fig. 5 is a perspective view of the members of the lock detached but approximately in their proper relative positions.

The window frame 1 may be of the usual or any preferred construction and the sashes 2 and 3 are mounted to slide therein in the usual manner, the sash cords and pulleys being omitted from the present illustration for the sake of clearness. In carrying out my invention, I secure to the front face of one side bar of the upper sash 2 a locking bar 4 which may be of cast or sheet metal and is constructed with a series of transverse shoulders or teeth 5 which are adapted to be engaged by a latch member on the lower sash. This locking bar may be secured to the upper sash in any convenient or preferred manner and I have illustrated a plurality of openings 6 in said bar through which screws or similar devices are inserted into the sash. The latch member 7 consists of a resilient bar or plate doubled upon itself at one end, as shown at 8, and provided with openings 9 through said doubled portion to permit the insertion of screws or other fastening devices into the sash. The inner member of this doubled portion 8 bears against the front face of the sash and serves as a reinforcing member and also as a wear plate for the releasing device. The upper extremity of the plate or bar is bent inwardly substantially at a right angle so as to extend over and rest upon the upper edge of the lower sash, as clearly shown in the drawings, and this bent over portion 10 is constructed with a longitudinal slot 11 through which a screw or other stop 12 is inserted into the sash. The said stop, by its engagement with the ends of the slot 11, limits the movement of the latch so that it cannot be withdrawn to such an extent as to fail to readily engage the locking bar, when desired, and also cannot be forced inwardly so far as to jam and deface the locking bar. The front portion or main body of the latch member is constructed with a longitudinal slot 13 immediately in front of the upper extremity of the doubled portion 8 and this slot 13 receives the stem 14 of a T-shaped releasing member, the head or wings 15 of which fit between the members of the latch and are adapted to rock upon the inner member 8 of the same. A chain or similar device 16 is attached to the outer end of the stem 14 and depends therefrom, while a pin or other projection 17 extends from the lower portion of the sash and is constructed with a notch 18 which is adapted to receive a ring 19 on the lower end of the chain 16 when it is desired to hold the latch in released position. Above the slot 13 an opening 20 is formed in the latch member and through the said opening a headed pin or screw 21 is inserted into the sash, a spring 22 being coiled around said pin between the head of the same and the front face of the latch and tending by its expansion to hold the latch in engagement with the locking bar.

It is thought the operation of the device will be readily understood from the foregoing description, taken in connection with the accompanying drawings. When the chain 16 is released from the holding pin 17, the wings 15 of the releasing member will lie flat upon the sash between the members of the latch, as shown in Fig. 2. When it is desired to permit movement of the sash, the chain is drawn downwardly slightly so

that the ring 19 may be engaged over the holding pin 17 and seat in the notch 18 of the same. The pull upon the chain will cause the releasing member to rock, as shown in Fig. 3, and will thereby force the outer main portion of the latch away from the sash so that the upper inturned tongue or end 10 thereof will be withdrawn from its engagement with the locking bar. Either or both sashes may then be moved to any desired degree. If it be desired to prevent opening of the sash or sashes from the outside, the chain 16 is released, whereupon the latch will at once spring under a shoulder or tooth of the locking bar and thereby prevent relative opening movement of the sashes.

My device is exceedingly simple in its construction and may be readily applied to any sash now in use. The device may be readily manipulated from the inside of a building without requiring the user to stand upon a ladder or other article and without requiring him to stretch his arms to an injurious degree. When the latch is released, it may be retained in released position so that accidental locking of the same will be prevented and it cannot be prematurely or accidentally released after it has been once allowed to assume the locking position. The several parts are all simply constructed and any one part may be readily renewed or repaired without requiring the provision of an entirely new lock.

Having thus described the invention, what is claimed as new is:

1. In a device for the purpose set forth, the combination of a locking bar, a latch member secured at its lower end and having its upper end constructed to engage the locking bar, a headed pin inserted through the latch member and secured in rear of the same, a spring coiled around said pin between the head thereof and the latch member to hold the said member normally in engagement with the locking bar, and means for releasing the latch member from its engagement with the locking bar.

2. The combination of a locking bar, a latch member consisting of a resilient plate secured at its lower end and having its upper end constructed to engage the locking bar, means for holding said upper end of the latch member normally in engagement with the locking bar, and a T-shaped releasing member having its head disposed to rock in rear of the latch member and bearing against the same and its stem projecting beyond the said member.

3. The combination of a locking bar, a latch member secured at its lower end and having its upper end constructed to engage the locking bar, means for holding the latch member normally in engagement with the locking bar, a T-shaped releasing member having its head disposed in rear of and bearing against the latch member and its stem projecting forwardly beyond the latch member, a holding pin disposed below the latch member, and a flexible operating device suspended from the releasing member and adapted to engage said holding pin.

In testimony whereof I affix my signature.

FRED F. MALSBURY. [L. S.]

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."