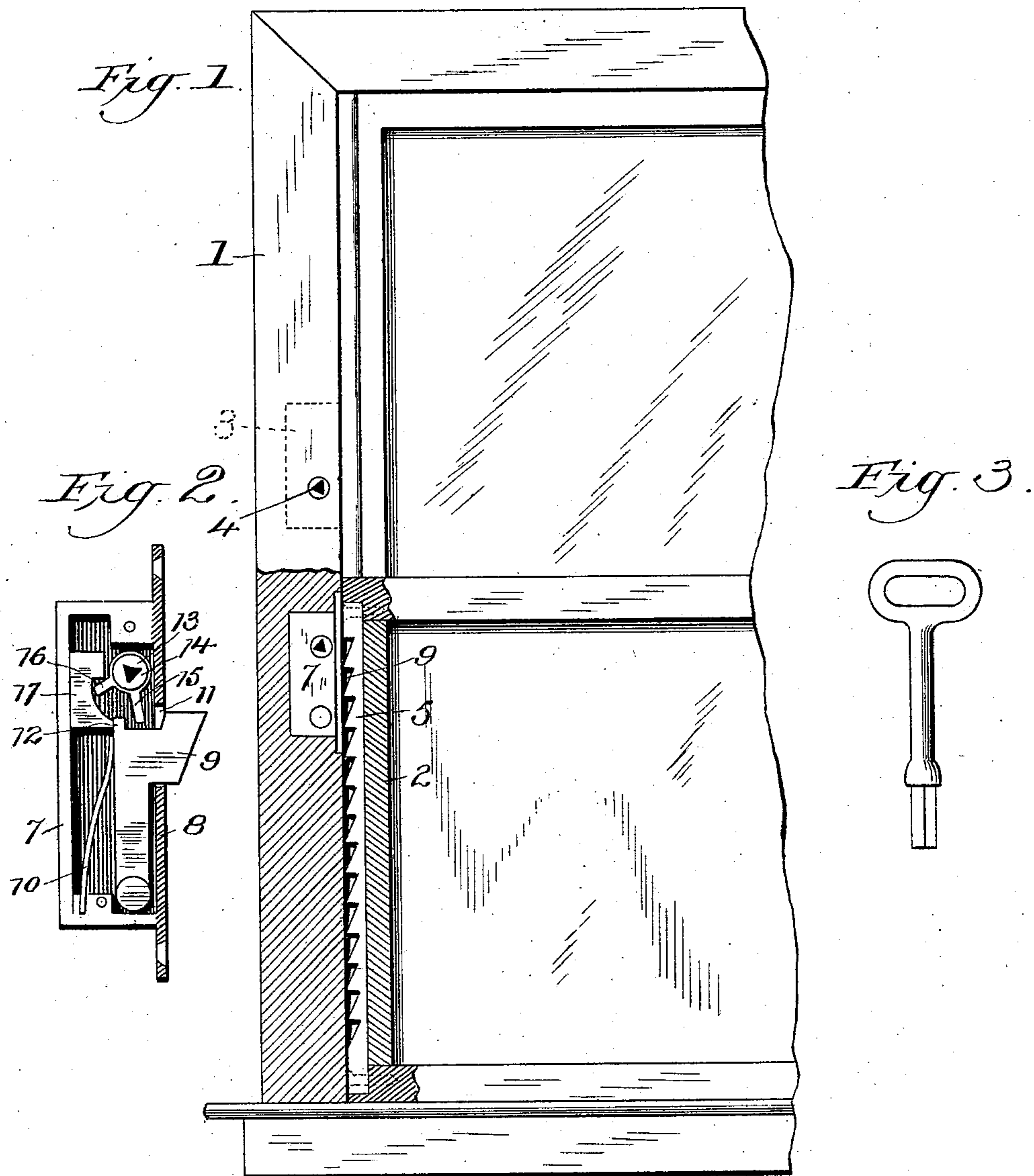


(No Model.)

J. E. HARTMANN.
SASH FASTENER.

No. 533,891.

Patented Feb. 12, 1895.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN E. HARTMANN, OF TACOMA, WASHINGTON.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 533,891, dated February 12, 1895.

Application filed October 20, 1894. Serial No. 526,438. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. HARTMANN, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Window-Sashes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in window frames, and sashes therefor, the object of the same being to so construct said frame and sash that the supporting ropes, pulleys and balance weights of ordinary sashes are dispensed with, and that the sash may be held in any position in the frame and locked therein and the sash be prevented from being opened from the outside.

The invention consists in providing the edge of the window sash with a notched bar, the notches of which are engaged by a spring-pressed dog projecting inwardly from the edge of the window frame, which dog is adapted to be operated by a key on the inside of said frame and locked in its inner position.

The invention is clearly illustrated in the accompanying drawings which form a part of this specification, in which—

Figure 1 is a vertical central section through the window frame and sash showing the notches on the edge of the sash in engagement with the locking dog, and the operating parts of the lock in the frame. Fig. 2 is a detail view of the lock mechanism with the side plate of the casing in which the same is inclosed, removed. Fig. 3 is a detail view of the key.

Like reference numerals indicate like parts in the various views.

1 indicates the window frame and 2 one of the window sashes moving therein. The said frame has a slot 3 in one edge thereof in which fits and is secured the detent mechanism and the lock therefor. The said frame is further provided with a key-hole slot 4 leading to the lock.

The window sash 2 has seated in and secured along one edge thereof a metallic plate 5 provided with a series of angular notches

therein which are engaged by the detent mechanism, to be described.

The locking mechanism is located in a casing 7 which fits within the slot 3 of the window frame, having a slotted side piece 8 through which the detent or pawl 9 is adapted to project. This pawl 9 is pivoted at its lower end to the opposite sides of the casing 7 and is engaged by the flat spring 10 which holds said pawl normally in its outer position. It also has a wide notch 11 in its upper end forming a shoulder or upwardly extending projection 12 thereon. Also rotatably mounted in the sides of said casing 7 is the key shaft 13 having a longitudinal opening 14 therein which receives the key, and two laterally projecting lugs or fingers 15 and 16 thereon. The lug 15 is adapted to move in the notch 11 and engage the shoulder 12 to withdraw the pawl 9 from engagement with the window sash and release the latter. The lug 16 engages a notched tumbler 17 which in its downward position engages the inner face of the detent 9 and prevents movement of the latter. Upon turning the key shaft 13 the tumbler 17 is lifted out of engagement with said detent.

It is understood that a detent and locking mechanism is necessary for each sash, the one for the lower sash being located at a point about an inch and a half below the top of said sash when it is in its closed position, and the one for the upper sash being located about three inches above the other.

It will be understood from the foregoing description taken in connection with the accompanying drawings, that by my construction, no ropes, pulleys, or weights are required for the sashes, no lock between the sashes is necessary, and that the window sash is locked at every point at which it is set and cannot be moved either up or down without a key which must be applied from the inside and the window consequently burglar proof, even though partially opened.

It is obvious that my invention can be used in connection with window frames either with or without weights, that is, they may be used on ordinary sashes. The lock for the lower sash would then have to be about six inches below the top of the lower sash and the notched bar would only extend to the point

where the ropes are fastened on either sash. In the present window sashes the only means of locking the same is by closing both sashes tightly. By my improvement the same may
5 be locked at any point and held at any adjusted position. This, in connection with window sashes of ordinary construction, gives a flexible connection and provides a lock for holding the same at any point.

10 Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

15 The combination with a window frame, of a sash moving therein having notches along one edge thereof which are engaged by a spring-pressed pawl in said frame for holding the sash in its adjusted position, and means for locking said pawl in its outer or locking position, consisting of a spring bear-

ing against said pawl, a tumbler having a 20 notch therein adapted to rest normally behind said pawl, a key shaft adapted to be engaged by a key, and lugs on said shaft, one of which upon turning the shaft is adapted to engage the notch in the tumbler, and lift 25 said tumbler out of engagement with said pawl and the other adapted to engage the shoulder on said pawl to withdraw the same from engagement with the notches in the sash, substantially as and for the purpose 30 described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN E. HARTMANN.

Witnesses:

J. A. WINTERMUTE,
FRED PORTMANN.