

N. MARSCHALL.

SASH FASTENER.

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914,853.

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Fig. 1.

Fig. 2.

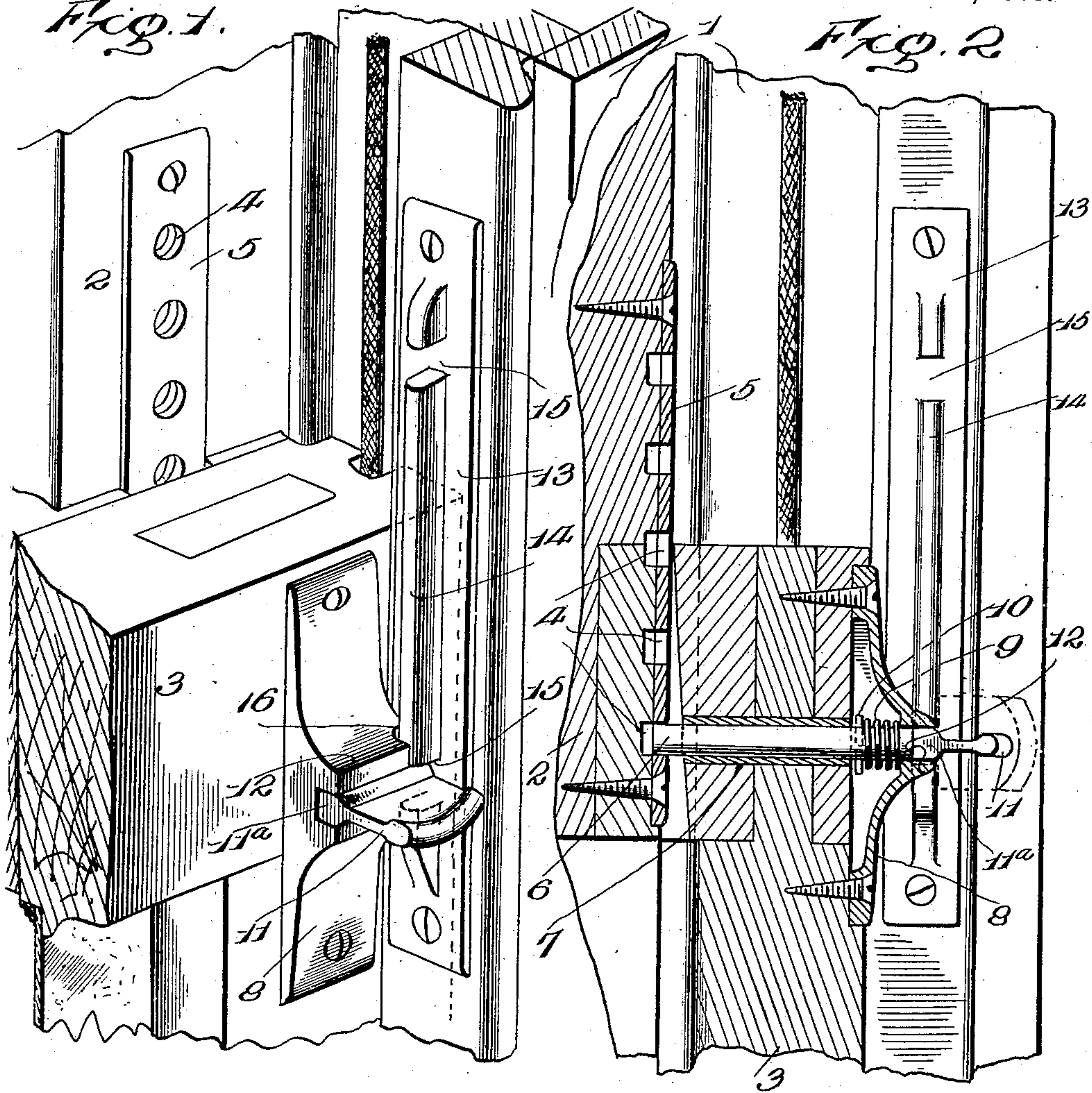
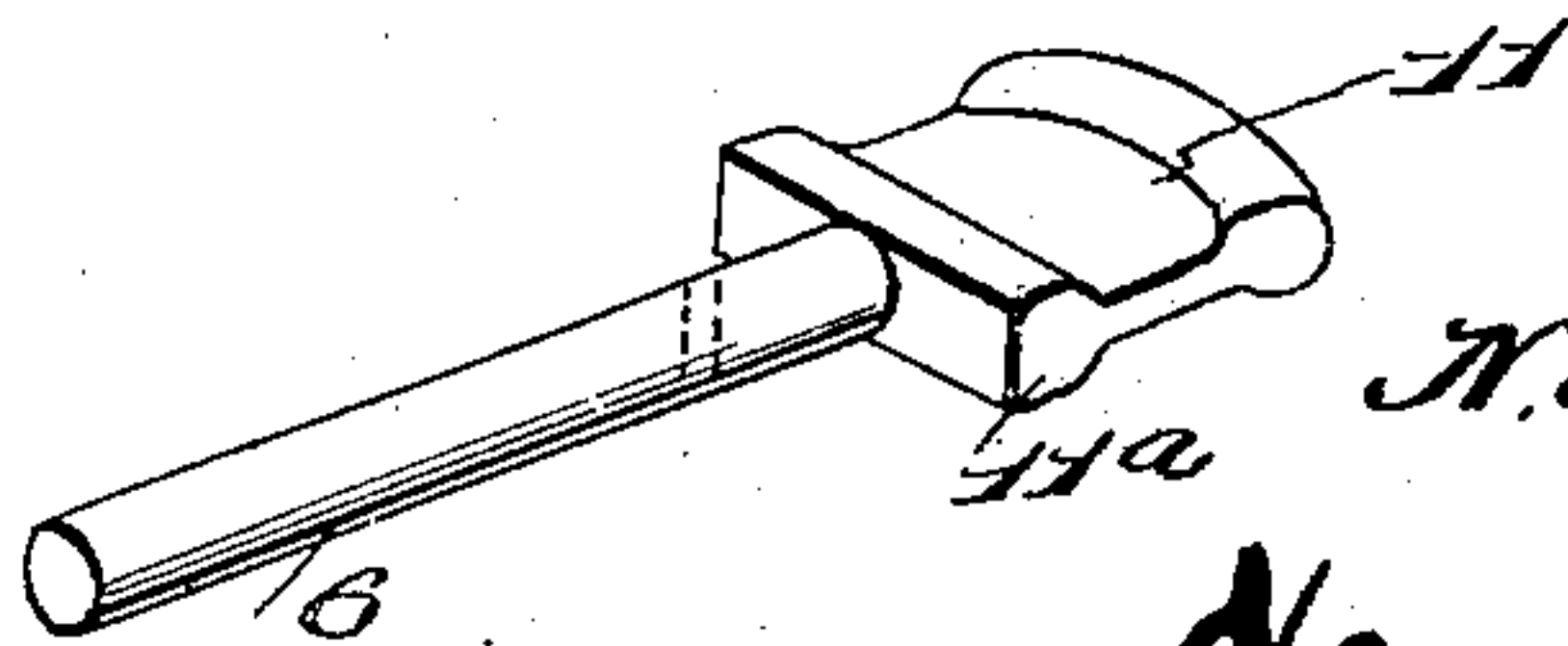
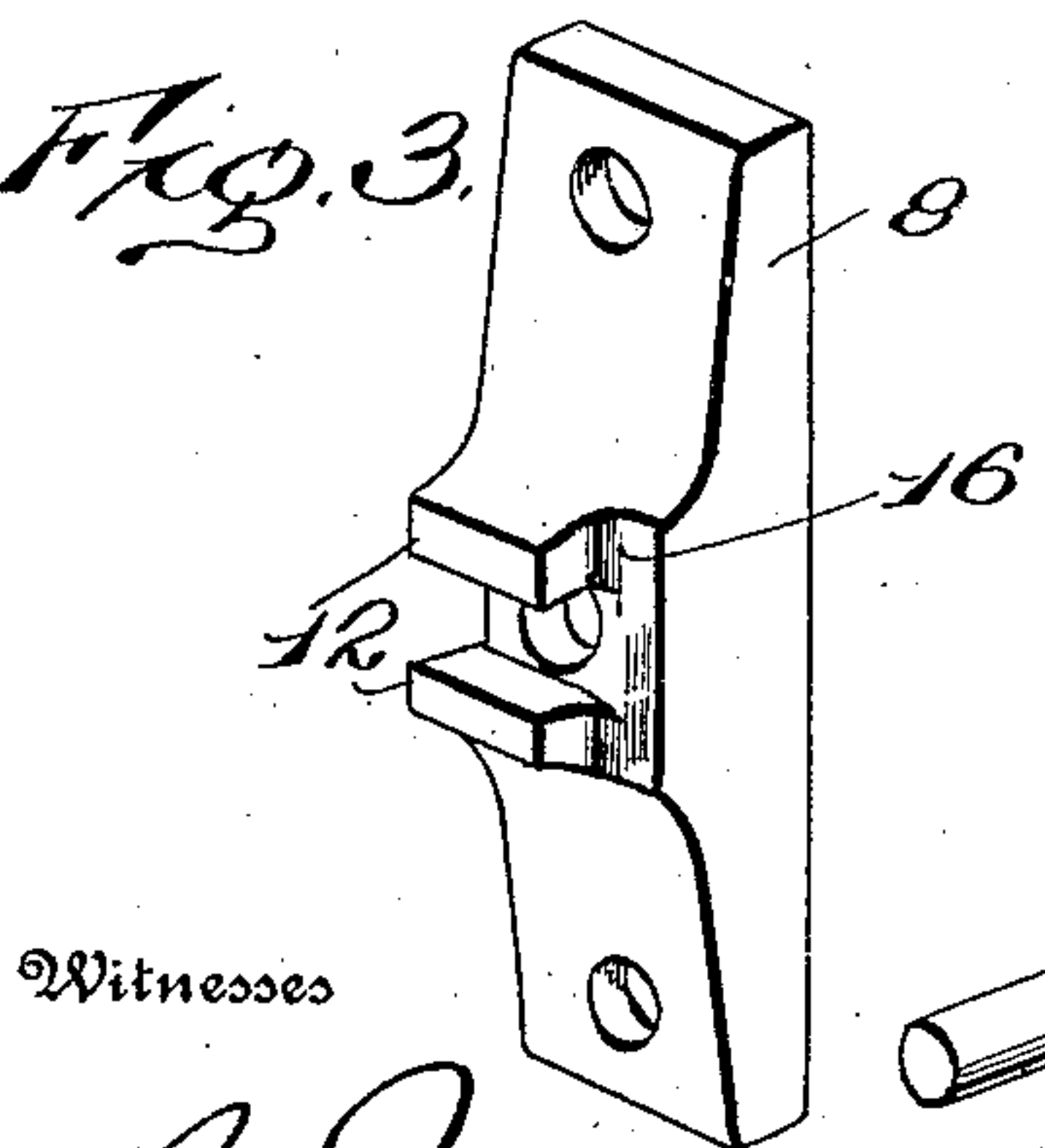


Fig. 3.

Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

NICOLAS MARSCHALL, OF MOUNT VERNON, NEW YORK.

SASH-FASTENER.

No. 914,853.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, NICOLAS MARSCHALL, citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

The present invention relates to a novel means for locking the sash of a window in a partially open position for the purpose of obtaining ventilation within the room, and the object of the invention is to provide a fastener of this character embodying a novel construction for locking the upper sash and lower sash against relative movement and also preventing any sliding movement of the said members within the window casing.

The invention further contemplates a sash fastener which can be readily applied to a window of the usual construction and can be easily and quickly manipulated to lock the sashes in the desired position.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view showing the sash fastener applied. Fig. 2 is a longitudinal sectional view through the same. Fig. 3 is a detail view of the plate applied to the lower sash. Fig. 4 is a detail view of the locking bolt.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The invention is shown as applied to a window of the usual construction, the numeral 1 designating the window casing having the upper sash 2 and lower sash 3 slidably mounted therein. One of the side stiles of the upper sash 2 is provided at the lower end thereof with a vertical series of sockets 4, and these sockets are preferably formed in a metallic plate 5 which is secured to the sash. Coöperating with these sockets 4 to lock the upper and lower sashes against relative movement is a locking bolt 6, the said locking bolt being slidably mounted within a bushing 7 embedded in the lower sash and passing through an opening in a plate 8 secured to the said sash. This bolt 6 is normally held in an operative position by means

of a coil spring 9 disposed within a recess in the back of the plate 8 and interposed between a shoulder at the base of the said recess and a collar 10 upon the bolt. The outer end of the locking bolt 6 is formed with a flattened finger-piece 11 having an enlarged base 11^a and a pair of spaced ribs 12 project outwardly from the plate 8 upon opposite sides of the bolt. In the present instance these ribs 12 are disposed in a horizontal direction and when the finger-piece 11 is turned into a horizontal position so as to assume the general direction of the ribs 12 the base 11^a of the finger-piece is drawn between the ribs and the bolt 6 is projected into operative position so as to engage any selected one of the series of sockets 4. However, by grasping the finger-piece 11 and drawing the same outwardly the bolt 6 is retracted into an inoperative position, and by turning the finger-piece to a vertical position so that the base thereof extends transversely across the ribs the locking bolt will be retained in such position. The two sashes of the window are then released and can be moved freely up and down in the usual manner.

The invention also contemplates means for automatically locking the two sashes against sliding movement within the window frame, and for this purpose a plate 13 is secured to the frame, the said plate being formed with a laterally extending rib 14 provided with the notches 15 and received within a cut away portion 16 upon one side of the plate 8. These notches 15 are designed to engage the flattened finger-piece 11 of the locking bolt when the said finger-piece is turned into a horizontal position. When the finger-piece is received within the lowermost notch 15 the lower sash 3 is retained in normal position and the ventilation is obtained through the top of the window, the upper sash being lowered the required amount. In a reverse manner it will be obvious that when the finger-piece 11 is in engagement with the upper notch 15 the lower sash will be held in a slightly raised position and the upper sash may either be entirely closed or slightly lowered as desired. It will thus be apparent that when the finger-piece 11 is turned into a vertical position and extends transversely with respect to the ribs 12 the sashes can be moved in the usual manner, while when the finger-piece is turned so as to have the same general direction as the ribs 12 the base of

the finger-piece is drawn between the ribs and the bolt moved outwardly into operative position, the said finger-piece being at the same time caused to engage one of the notches 5 15 of the plate 13 secured to the casing.

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

1. In a sash fastener, the combination of a plate secured to one of the sashes and formed 10 with a rib, a locking bolt passing loosely through the plate and designed to engage the opposite sash, the said locking bolt being formed with a flattened finger-piece and being mounted to have both a sliding and ro- 15 tary movement, means for holding the bolt in operative position when the flattened finger-piece is turned to have the same general direction as the rib upon the plate, and means upon the casing for coöperating with the fin- 20 ger-piece when the bolt is turned into the said position for locking the sashes against a sliding movement within the window casing, the rib serving to hold the bolt in an inoperative position when it is withdrawn and 25 turned to a position at an angle thereto.

2. In a sash fastener, the combination of a plate secured to one of the sashes and formed with a rib having one end thereof cut away, a second plate secured to the window casing 30 and received within the cut away portion of the rib, the second plate being formed with notches, and a locking bolt passing loosely through the first mentioned plate for engagement with the opposite sash, the said locking

bolt being formed with a flattened finger- 35 piece and being mounted to have both a sliding and rotary movement, the finger-piece serving to engage one of the notches of the second mentioned plate and also to permit the bolt to engage the opposite sash when 40 turned so as to have the same general direction as the rib upon the plate and the said rib serving to hold the bolt in an inoperative position when the finger-piece is withdrawn and turned to a position at an angle thereto. 45

3. In a sash fastener, the combination of a plate secured to one of the sashes and formed with a transverse rib, a locking bolt passing loosely through the plate and designed to en- 50 gage the opposite sash, the said locking bolt being formed with a flattened finger-piece, means for moving the bolt into operative position when the finger-piece is turned so as to have the same general direction as the rib 55 upon the plate, and a plate upon the casing provided with notches designed to coöperate with the finger-piece to hold the sashes against movement within the casing, the locking bolt being held in an inoperative po- 60 sition when the finger-piece is pulled outwardly and turned transversely with respect to the rib.

In testimony whereof I affix my signature in presence of two witnesses.

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Witnesses:

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