

No. 860,470.

PATENTED JULY 16, 1907.

E. F. HENDERSON.

SASH LOCK.

APPLICATION FILED SEPT. 5, 1906.

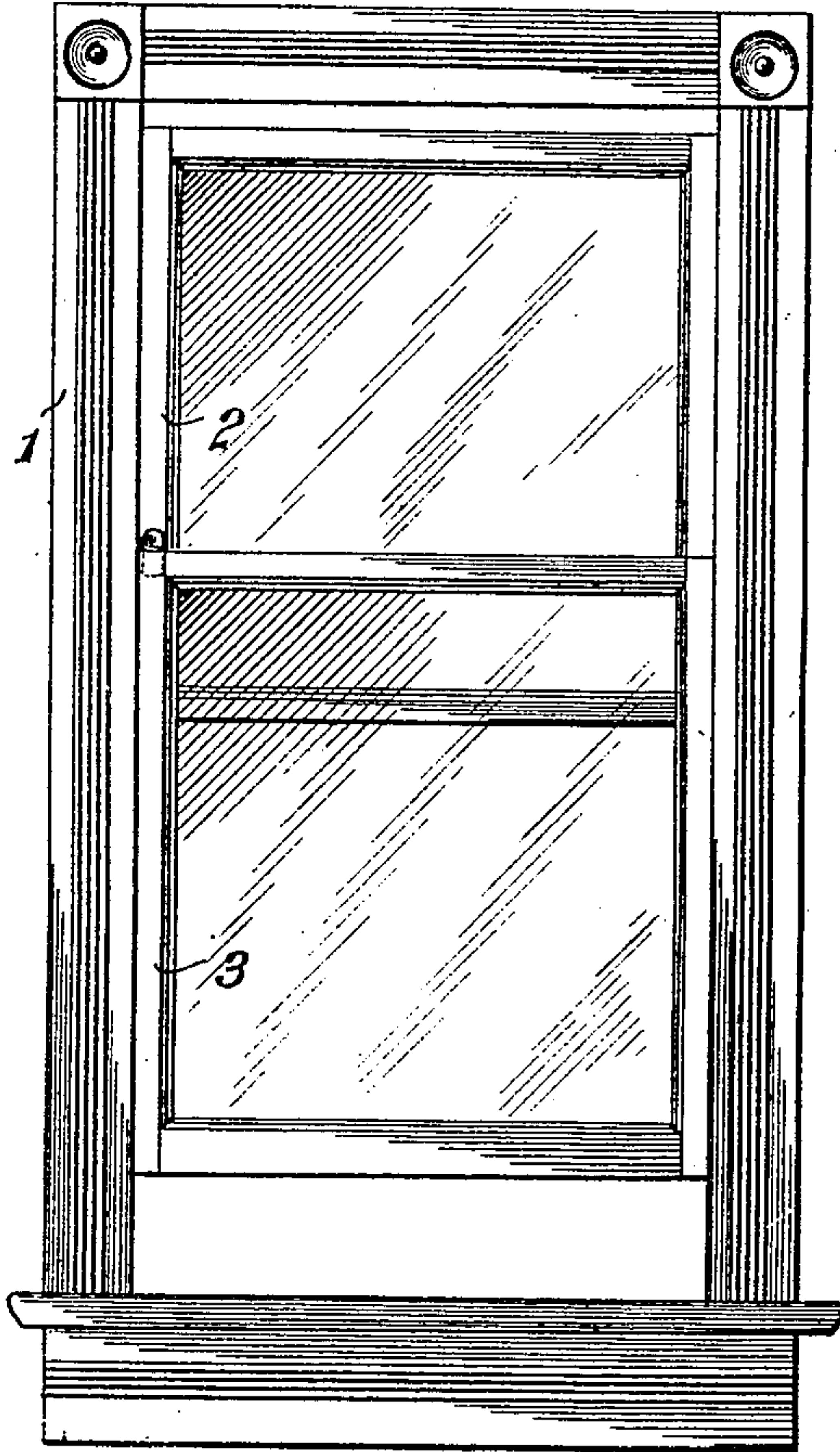


Fig. 1.

Fig. 2.

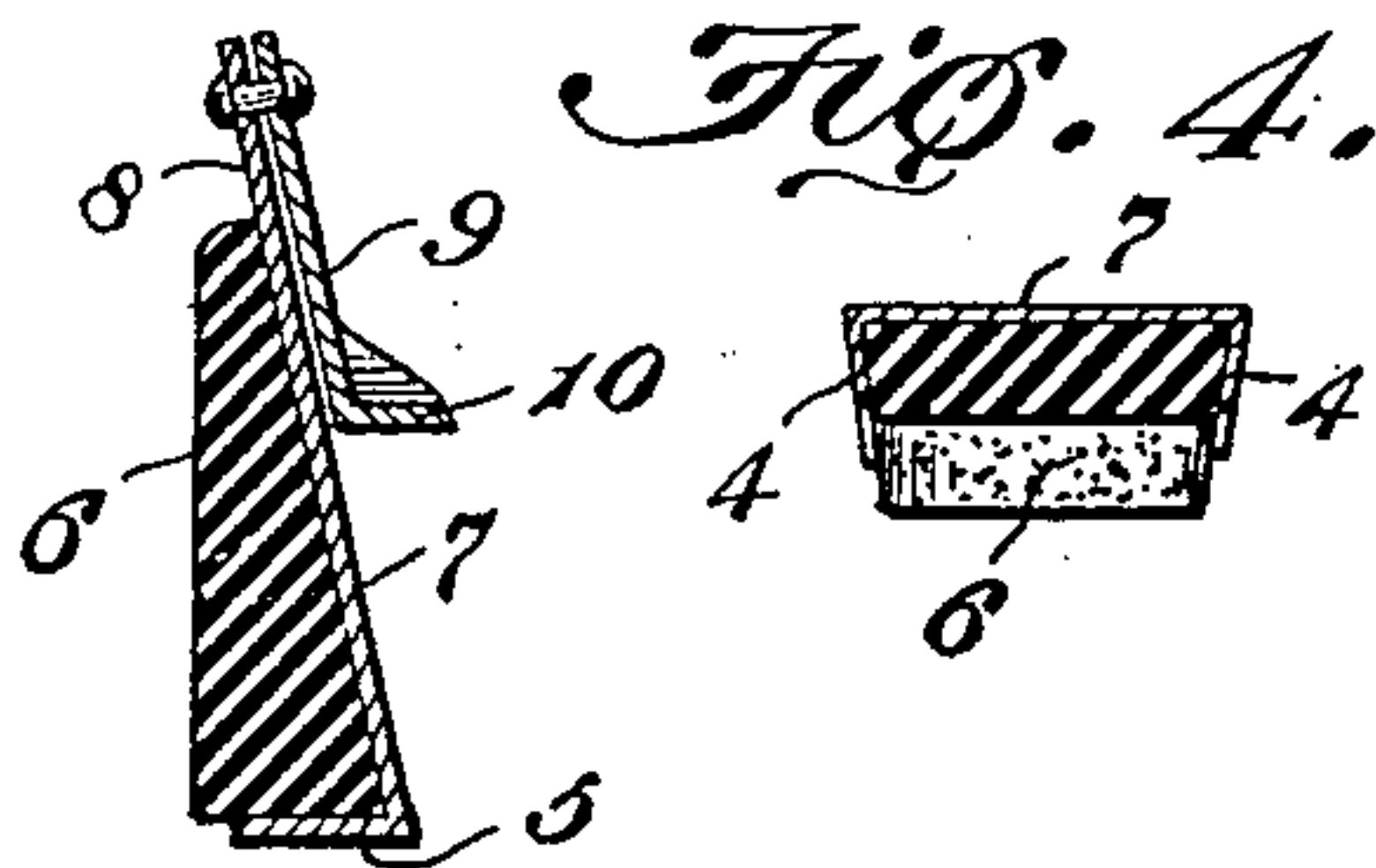
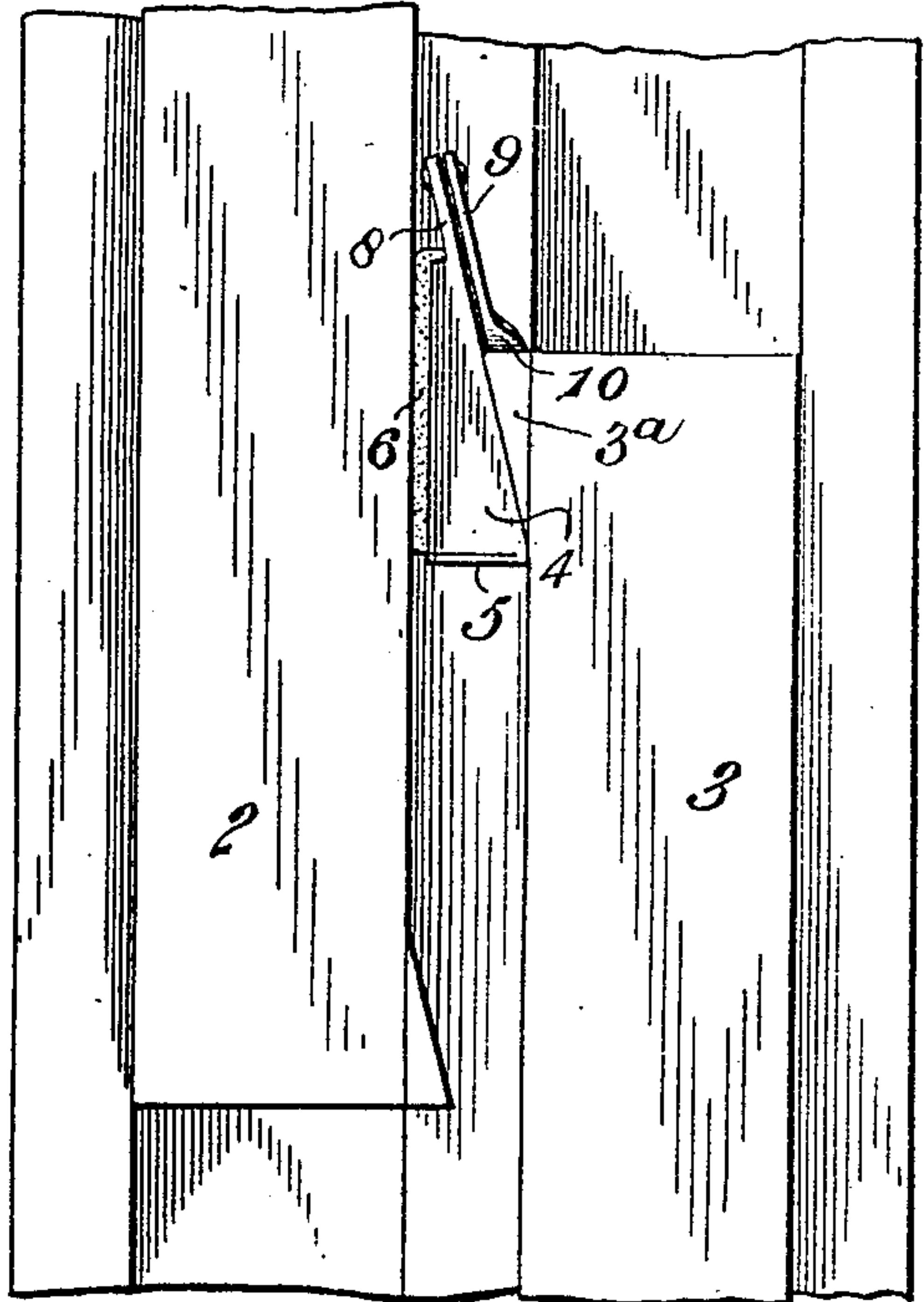


Fig. 3.

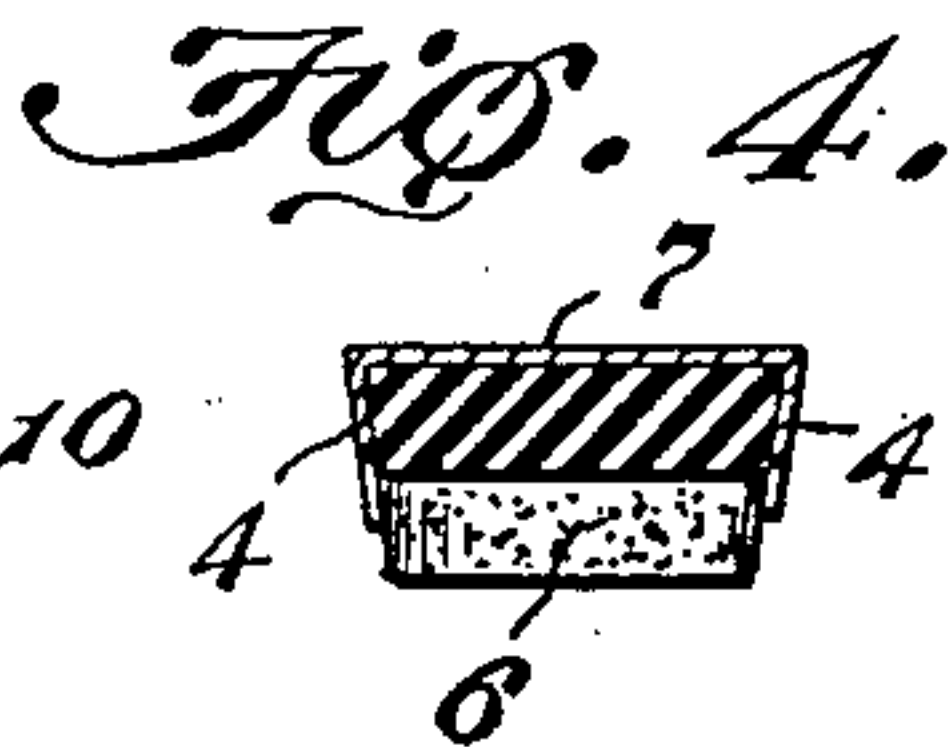


Fig. 4.

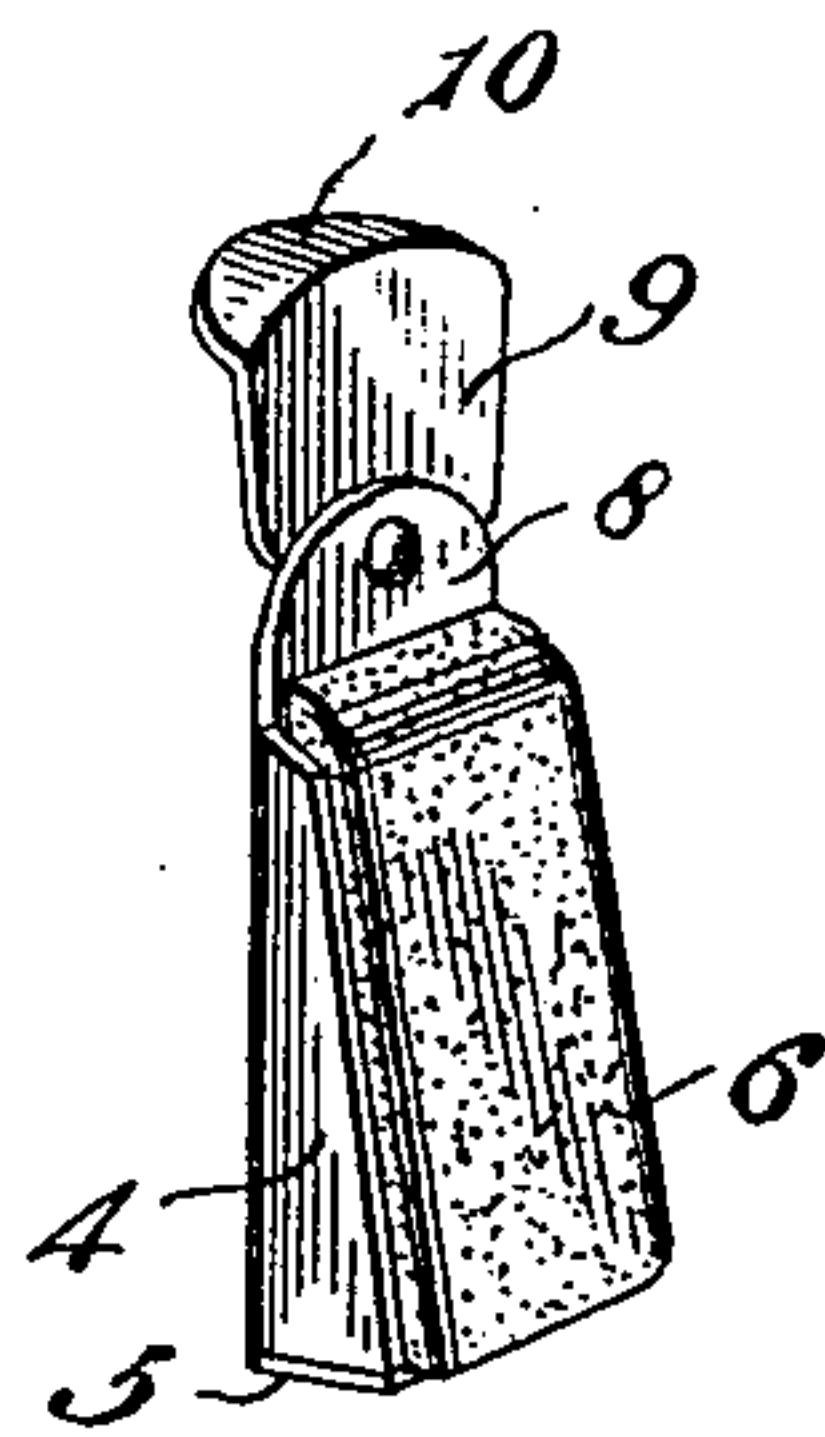


Fig. 5.

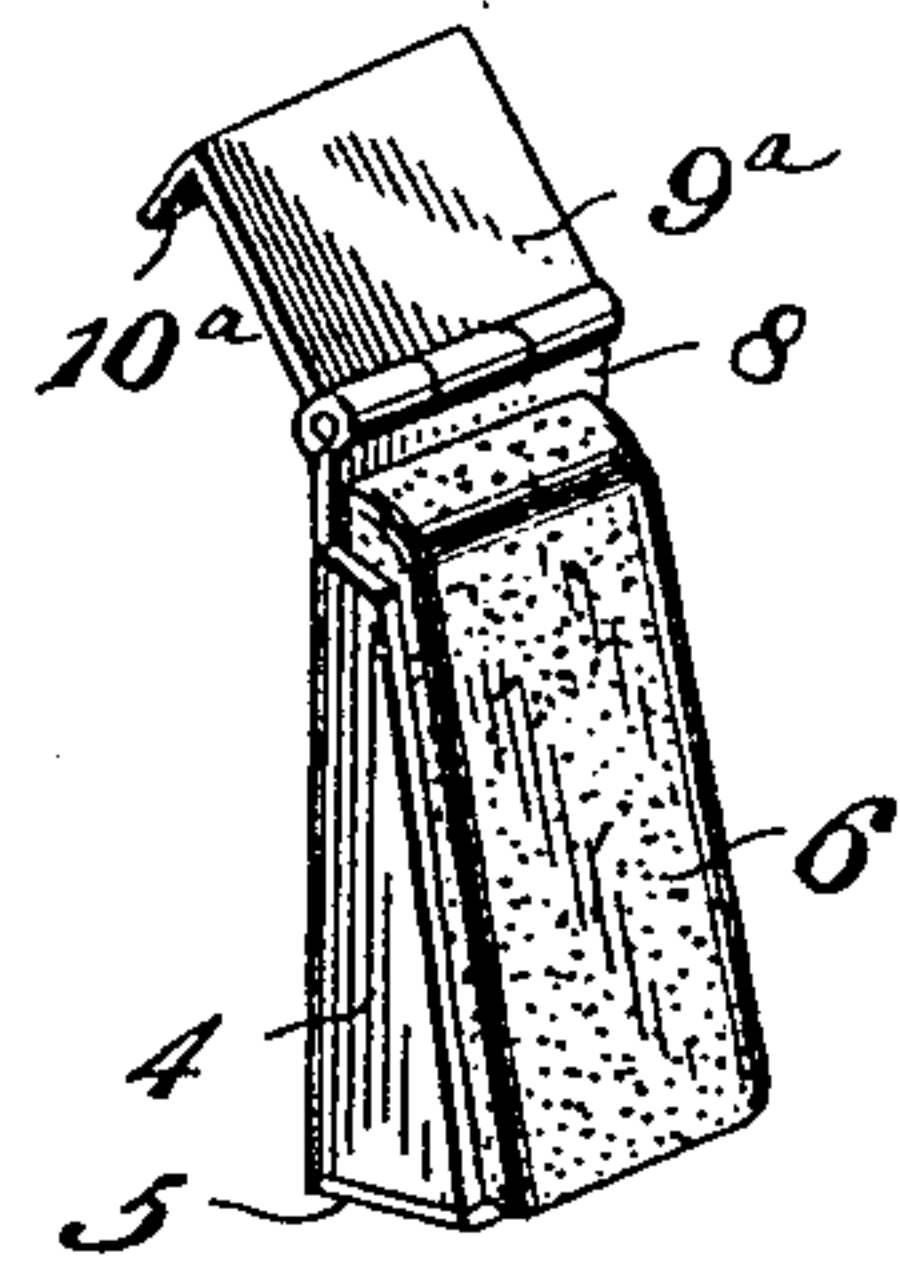


Fig. 6.

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Witnesses

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UNITED STATES PATENT OFFICE.

EDWIN F. HENDERSON, OF WEST ALLIS, WISCONSIN.

SASH-LOCK.

No. 860,470.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed September 5, 1906. Serial No. 333,311.

To all whom it may concern:

Be it known that I, EDWIN F. HENDERSON, a citizen of the United States, residing at West Allis, in the county of Milwaukee and State of Wisconsin, have
5 invented a new and useful Sash-Lock, of which the following is a specification.

This invention relates to an improved sash-lock, and has for its principal object to positively lock both window-sashes against vertical movement, when in
10 any open position, *i. e.*—when both are open, or when one sash is open and the other closed.

A further object of my invention is to provide a sash-lock adapted for use in all sliding window-sashes.

A still further object of my invention is to provide
15 a sash-lock of simple construction, of quick and easy manipulation, and cheap to manufacture.

In the drawings:—Figure 1 is a front elevation of a window showing the invention in place. Fig. 2 is a side elevation of portions of two window-sashes and the sash-lock in its applied position. Fig. 3 is a vertical sectional view of the invention. Fig. 4 is a cross sectional view taken on the line 4—4 of Fig. 5. Fig. 5
20 is a perspective view of the preferred form of the invention, and Fig. 6 is a perspective view of a modified form of the device.

Like numerals designate corresponding parts of all the figures in the drawings.

By referring to the drawings, it will be noted that 1 designates a window-frame in which are mounted an
30 upper sash 2 and a lower sash 3. The top sash-bar of the lower sash and the lower sash-bar of the upper sash, or what are usually referred to as the meeting rails, are each provided with the well-known inclined meeting faces. The sash-lock is positioned between one
35 of the vertical sides of the upper sash 2 and the upper horizontal portion of the lower sash 3, as shown in Fig. 2.

The invention consists of a substantially wedge-shaped casing preferably constructed of sheet-metal.
40 The major or front portion 7 is provided with integral side and upwardly inclined flanges 4—4, and an integral bottom flange 5, the meeting edges of the flanges being of equal widths. The major or front portion 7 is given such an angle of inclination with respect to
45 the bottom flange, that the top edge thereof will be in vertical alinement with both the rear edge of the bottom flange 5 and the rear edge of the side flange 4—4. The flanges 4—4 are inwardly bent to receive and securely retain a block of rubber, or other non-slipping material 6, which is of substantially the same
50 shape as the casing, but projects a short distance beyond the edges of the side and bottom flanges, and thereby forms a vertical bearing face. The major or front portion 7 of the casing extends beyond the upper
55 edge of the side flanges 4—4 and forms an ear 8, to which is pivoted a locking-dog 9 of less length than the

casing. This dog is provided at its free end with a curved lip 10, which is bent in the direction of the front of the casing and assumes a substantially horizontal plane. 60

Fig. 6 of the drawings discloses a modified form of the locking-dog 9^a. This dog consists of a substantially angular shaped piece of metal having one end hinged to the ear 8 of the casing, and the other end bent at right angles to the dog 9^a to form the lip 10^a. 65

The device is operated in the following manner: The sashes 2 and 3 are adjusted to the desired position and the wedge-shaped device is then inserted between one of the vertical rails of the upper sash 2, and the upper horizontal or meeting rail of the lower sash 3. It is positioned in such a manner that the vertical face of the block of rubber bears against the vertical side rail of the upper sash 2, and the inclined or front portion 7 of the casing engages the inclined face of the meeting rail of the lower sash. The device is introduced between the sashes when the window is partially open, and as the meeting rail of the lower sash will then be spaced from the meeting rail of the upper sash, the large end of the device may be readily introduced below the upper face of the tapered or projecting portion 3^a of the lower sash at the space between the same and the glass of the upper sash. After the large end of the wedge is moved to a point below the upper face of the portion 3^a of the lower sash, it may be readily moved laterally or horizontally to the position between the
85 sashes, illustrated in Fig. 1 of the drawing. When the device is placed in position between the upper and lower sashes, the lower sash is drawn downward over the smooth metallic face of the device, and the rubber will frictionally engage the upper sash and prevent
90 the device from slipping thereon. This relative movement of the lower sash and the wedge causes the two sashes to be moved away from each other and forced tightly against the guiding beads of a window frame, and when the movable locking dog 9 is swung into engagement with the lower sash to lock the wedge and the lower sash against relative movement, both sashes will be securely held against movement in either direction. The wedging action is increased by the inclined face of the tapered projecting or wedge-shaped
100 portion 3^a of the lower sash. The dog 9 prevents the sash 3 from moving upwardly, while the wedge formed by the block of rubber and the metallic casing, fills the space between the two sashes and frictionally engages both sashes, so as to resist any downward movement of the sash 3, or either upward or downward movement of sash 2. 105

Having thus fully described my invention, what I claim as new and desire to secure by Letters-Patent, is:— 110

1. The combination with a window frame, and upper and lower sashes, of a locking device interposed between

and engaging both the upper and lower sashes and provided with means for forcing the same against the window frame, and means carried by the device for engaging one of the sashes to lock it against relative movement, whereby both sashes will be held against movement in either direction.

2. The combination with a window frame, and upper and lower sashes, the lower sash being provided at its upper edge with an inclined face, of a locking device interposed between the inclined face of the lower sash and the upper sash and engaging both of the sashes and also holding the same in frictional engagement with the window frame, and means carried by the device for engaging the lower sash, whereby it is held against relative movement.

3. A sash lock comprising a wedge-shaped member designed to be arranged between the upper and lower sashes of a window to force the sashes into frictional engagement with the window frame, and having a vertical face to engage one of the sashes and provided with an inclined face to engage the other sash, and locking means carried by the wedge-shaped member for holding the same against movement on the sashes.

4. A sash lock comprising a wedge-shaped member designed to be arranged between the upper and lower sashes of a window to force the sashes into frictional engagement with the window frame, and having a vertical face to engage one of the sashes and provided with an inclined face to engage the other sash, one of the said faces being elastic and the other being inelastic, and locking means carried by the wedge-shaped member for holding the same against movement on the sashes.

5. A sash lock comprising a wedge-shaped member adapted to be interposed between the upper and lower sashes of a window for forcing the said sashes into frictional engagement with the window frame, and presenting a vertical face to one of the sashes and an inclined face to the other sash, and a locking dog pivotally mounted on the said member and arranged to engage one of the sashes for locking the member against movement.

6. A sash-lock adapted for use in the space between two sashes, comprising a wedge-shaped sash-engaging body having a straight side and an inclined side, and a locking-dog movably mounted on the inclined side of said body.

7. A sash lock comprising a wedge-shaped member adapted to be interposed between the upper and lower sashes of a window to force both of the said sashes into frictional engagement with the window frame, said member being composed of a tapered metallic casing, and an elastic block fitted within the casing and projecting beyond the same to present an elastic face to one of the sashes, and means carried by the member for locking it against movement on the sashes.

8. A sash-lock including a tapered body comprising a casing having an open side, a tapered cushion located in the casing and having one side projecting through the open side of said casing, and a dog movably mounted on the small end of the body.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EDWIN F. HENDERSON.

Witnesses:

A. H. McMICKEN,
A. R. THORNICK.