

No. 773,791.

PATENTED NOV. 1, 1904.

A. B. GRAHAM.
STORM SASH AND SCREEN FASTENER.

APPLICATION FILED JAN. 2, 1904.

NO MODEL.

Fig. 1.

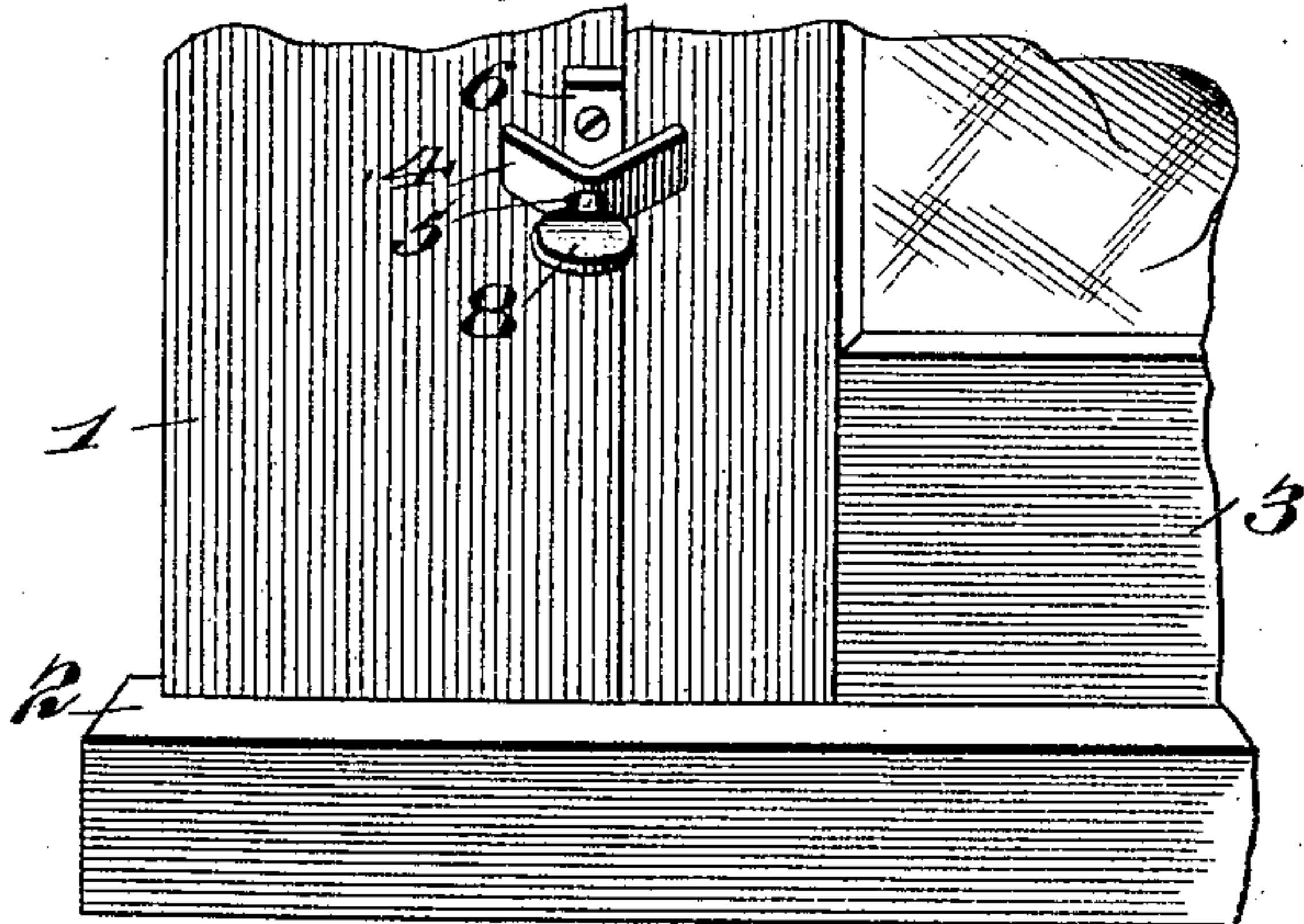


Fig. 4.

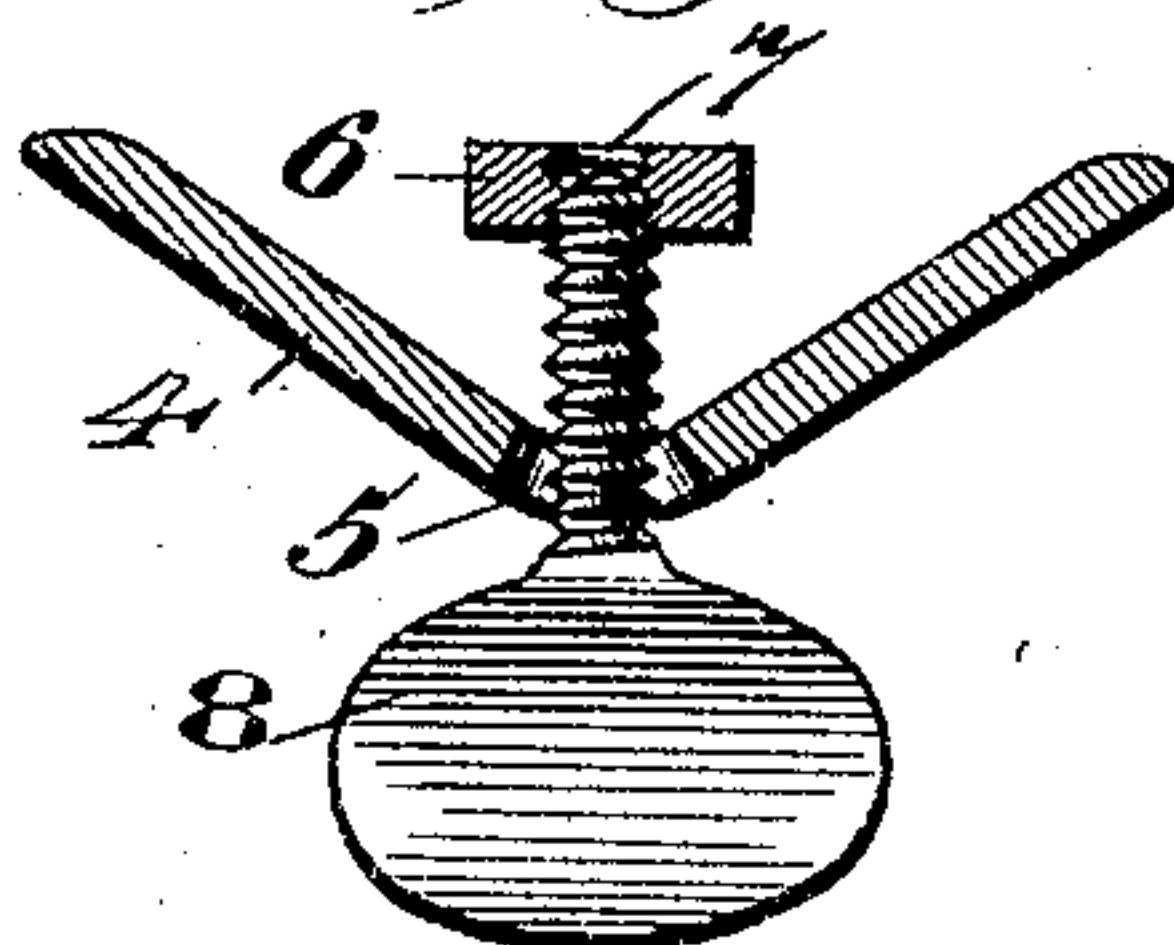


Fig. 2.

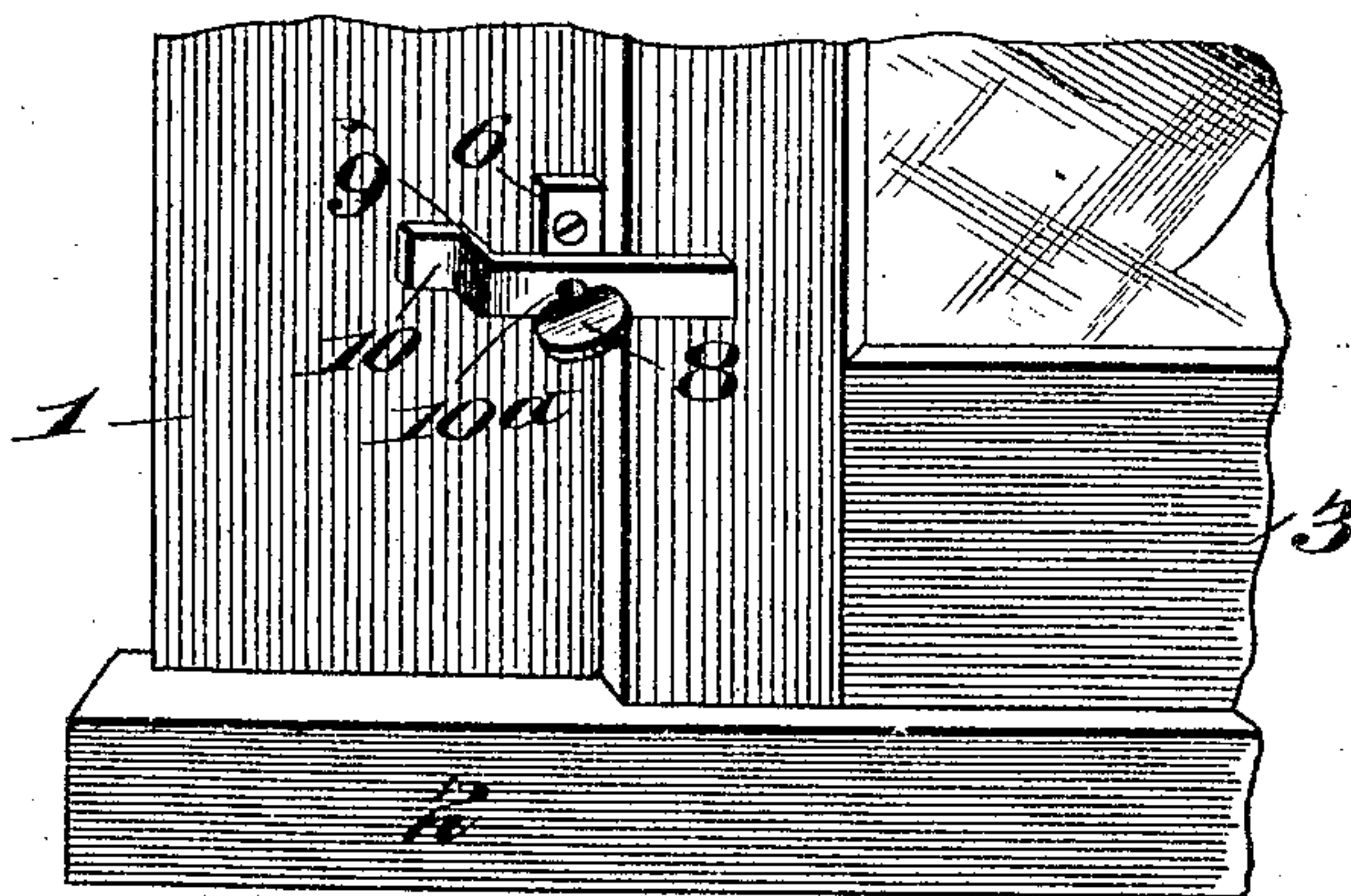


Fig. 5.

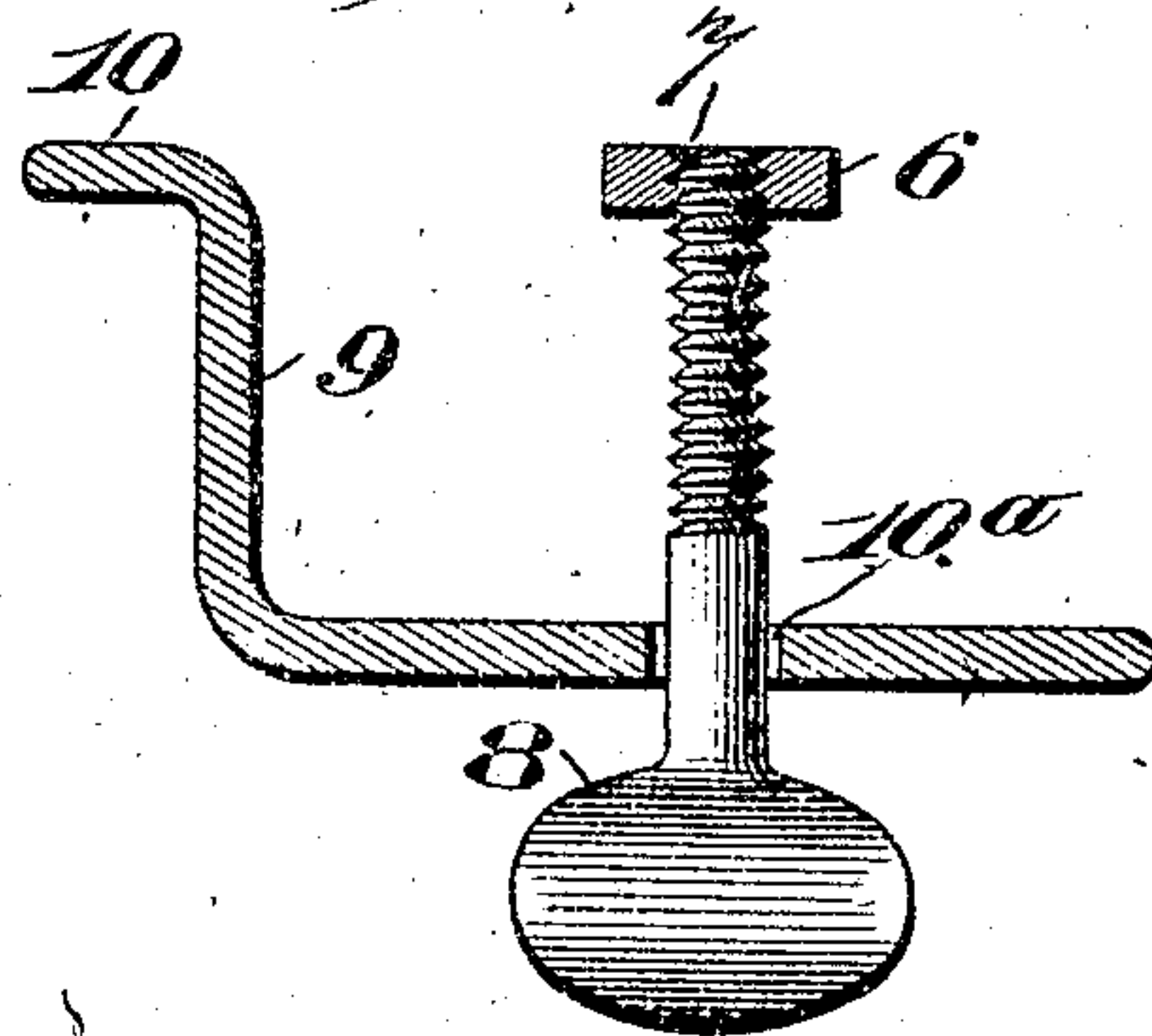


Fig. 3.

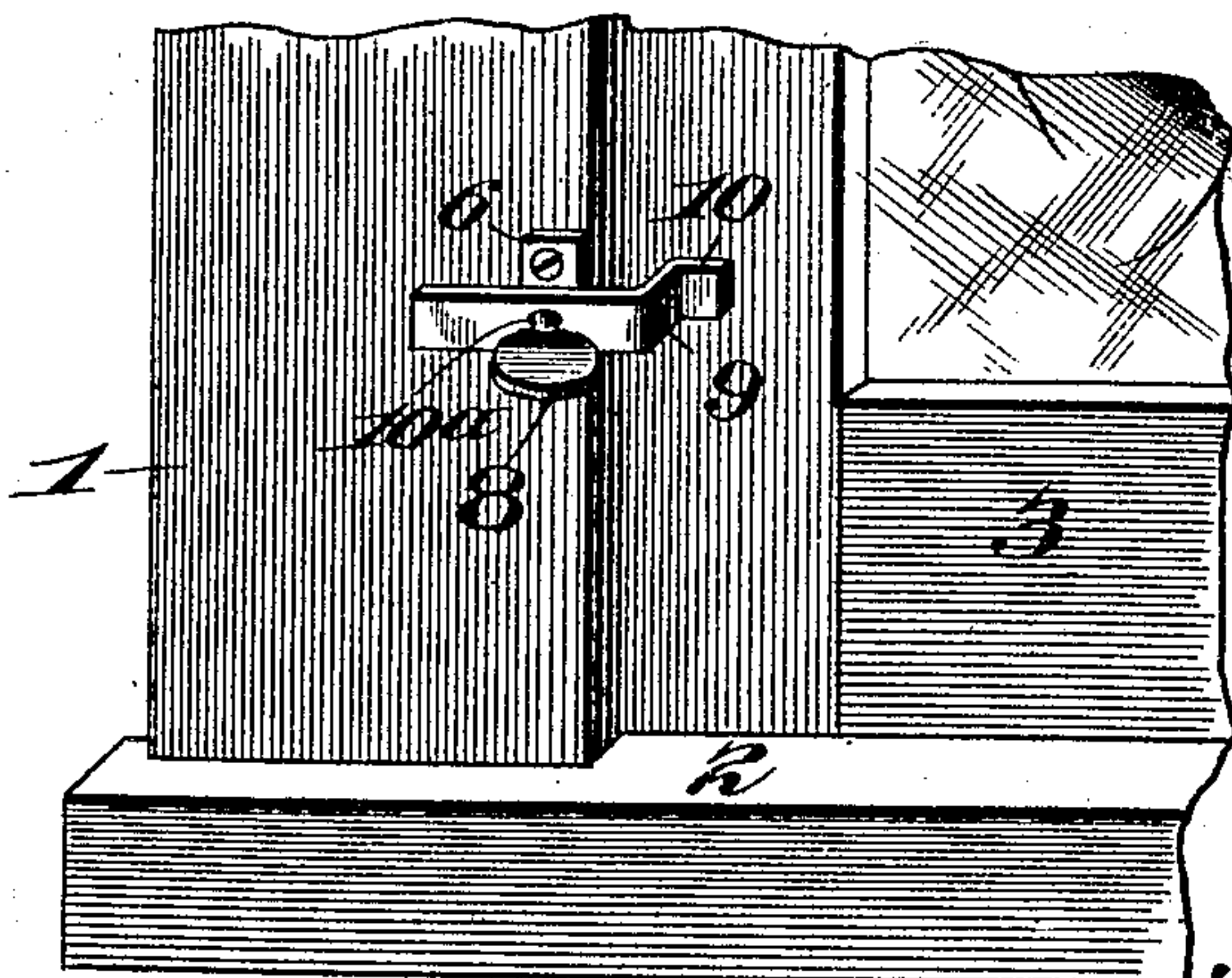
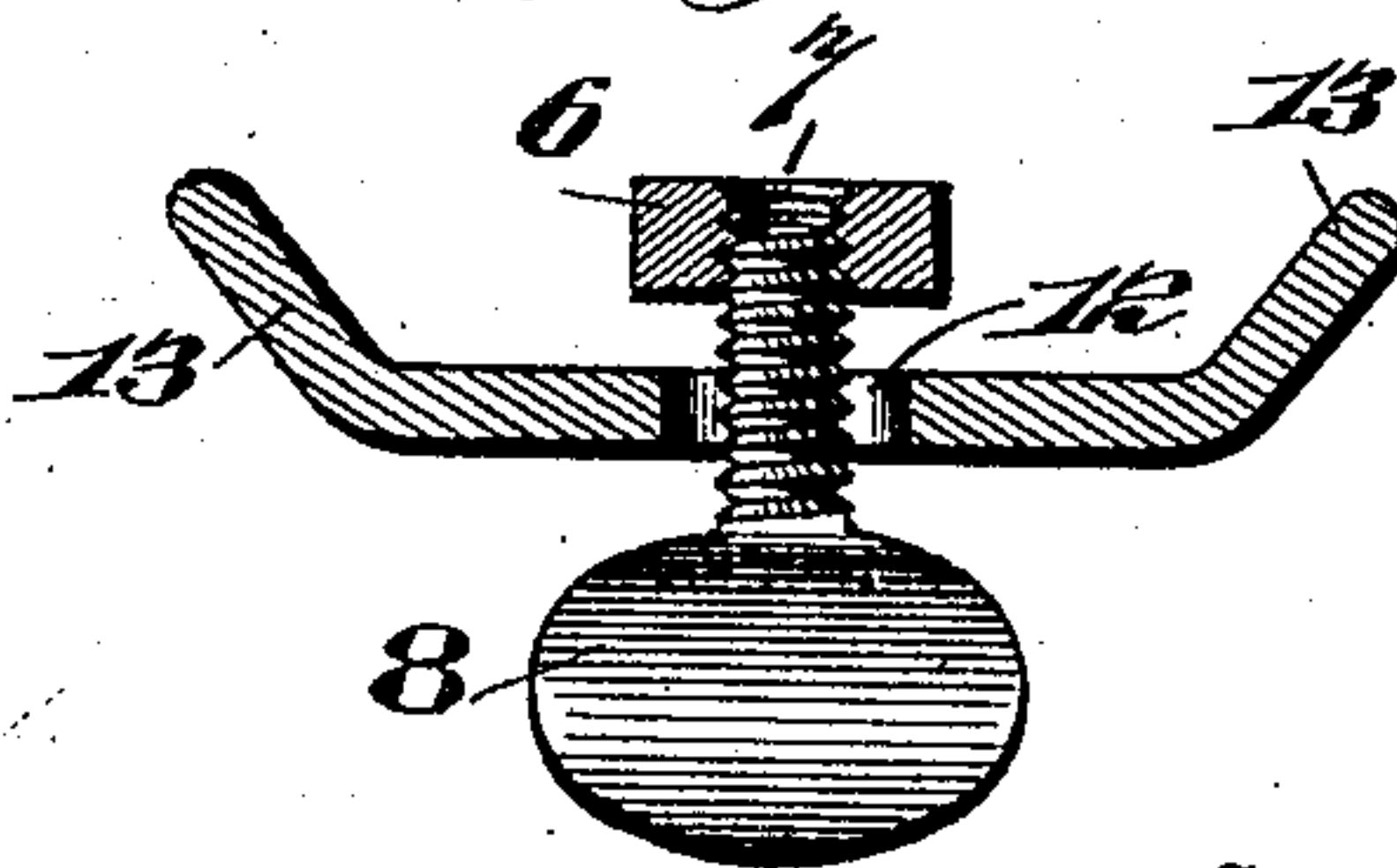


Fig. 6.



Witnesses

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ALFRED B. GRAHAM, OF GROTON, SOUTH DAKOTA, ASSIGNOR OF ONE-HALF TO CARL VOY.

STORM-SASH AND SCREEN FASTENER.

SPECIFICATION forming part of Letters Patent No. 773,791, dated November 1, 1904.

Application filed January 2, 1904. Serial No. 187,505. (No model.)

To all whom it may concern:

Be it known that I, ALFRED B. GRAHAM, a citizen of the United States, residing at Groton, in the county of Brown and State of South Dakota, have invented certain new and useful Improvements in Storm-Sash and Screen Fasteners, of which the following is a specification.

The object of my invention is to provide means whereby a screen or a storm-sash may be secured to a window-frame without marring the exterior of the frame.

A further object of my invention is to provide means whereby the sash or screen may be securely fastened to the window-frame either flush with the outer face of the frame or in a different vertical plane from the face of the window-frame; and it consists of a suitable plate secured to the frame and having a screw-threaded opening and an angle-iron provided with an elongated slot and a thumb clamping-screw passing through the said elongated slot, with its ends seated in the threaded opening of the said plate.

In the drawings, Figure 1 is a perspective view of the window-frame and storm-sash broken away with my invention applied. Fig. 2 is a similar view showing a slightly-modified construction of fastener. Fig. 3 is a similar view with the fastener shown in Fig. 2 reversed; the sash being set in from the face of the window-frame. Fig. 4 is a central longitudinal section of the fastener shown in Fig. 1. Fig. 5 is a central longitudinal section shown in Figs. 2 and 3. Fig. 6 is a central longitudinal section of another construction.

1 represents the window-frame having a suitable sill 2.

3 represents the storm-sash. For the purpose of illustration I have shown a storm-sash; but it is of course obvious that this fastener may be used with equal advantages for securing a screen to the window.

The fastener shown in Fig. 1 comprises a suitable V-shaped plate 4, having a longitudinal slot 5 in its center.

6 is a plate suitably secured to the window-frame and provided with a central screw-threaded opening 7.

8 is a thumb clamping-screw, the stem of

which passes through the elongated slot 5, while the end of the stem is seated in the screw-threaded opening 7 of the plate 6, as clearly shown in Fig. 4.

In the construction shown in Figs. 2, 3, and 5 the clamping-plate 9 is of L shape, having an end 10 at right angles to one of the arms of said plate. The object of this construction is to provide a means for readily securing a storm-sash on the outer face of the window-frame, as shown in Fig. 2, or securing the storm-sash within the window-frame back of the vertical plane of the face of said frame, as shown in Fig. 3. In Fig. 2 the long arm of the plate bears against the storm-sash, while the foot 10 bears against the window-frame. In Fig. 3 the plate is reversed from the position shown in Fig. 2 and the foot 10 bears against the storm-sash, while the longer arm of the plate 9 bears against the window-frame. The screw and plate are the same construction as shown in Fig. 4. This plate 9 is provided with a longitudinal slot 10^a.

In the construction shown in Fig. 6 the plate having the screw-threaded opening is the same as that shown in Fig. 4, as is also the clamping-screw. This plate 11 is provided with an elongated slot 12, the center portion of the plate being straight, while its ends 13 are deflected from the plane of the central portion of the plate.

In either construction it is obvious from the several views of the drawings, as well as the elongated slot in each of the plates, that each plate is adapted to clamp a storm-sash or a screen to a window-frame whether the sash or screen is flush with the outer face of the window-frame or in the plane back of or in advance of the outer face of the window-frame.

It will be seen that I have provided by my invention means whereby a storm-sash or screen may be secured in a window in such a manner that it is readily attachable and detachable and without marring the face of the window-frame.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with a window-frame,

and a supplemental sash, of a plate secured to the frame having a screw-threaded opening, an angle-iron provided with an elongated slot to permit of the contact of the ends of the iron
5 with surfaces in different planes, the respective ends of said iron constructed to bear against the frame and sash, and a thumb clamping-screw passing through the elongated slot with its end seated in the threaded opening of the said plate.
10

2. The combination with a window-frame and a storm-sash, of a plate secured to the frame having a screw-threaded opening, clamping-plate comprising a straight central
15 body having an elongated slot, and ends bent outwardly at any angle to the central body, and a thumb clamping-screw passing through

the said slot with its ends seated in the threaded opening of the said plate.

3. The combination with an attaching-plate 20 adapted to be secured to the frame of a window and provided with a screw-threaded opening, of a clamping-plate formed with coextensive diverging ends to space the central portion from the window-frame and a central 25 elongated slot, and a thumb-screw adapted to pass loosely through the elongated slot and engage the threaded attaching-plate.

The foregoing specification signed this 28th day of December, 1903.

ALFRED B. GRAHAM.

In presence of—

WM. ASHLEY,

WILLIAM IRA ERVIN.