

No. 760,390.

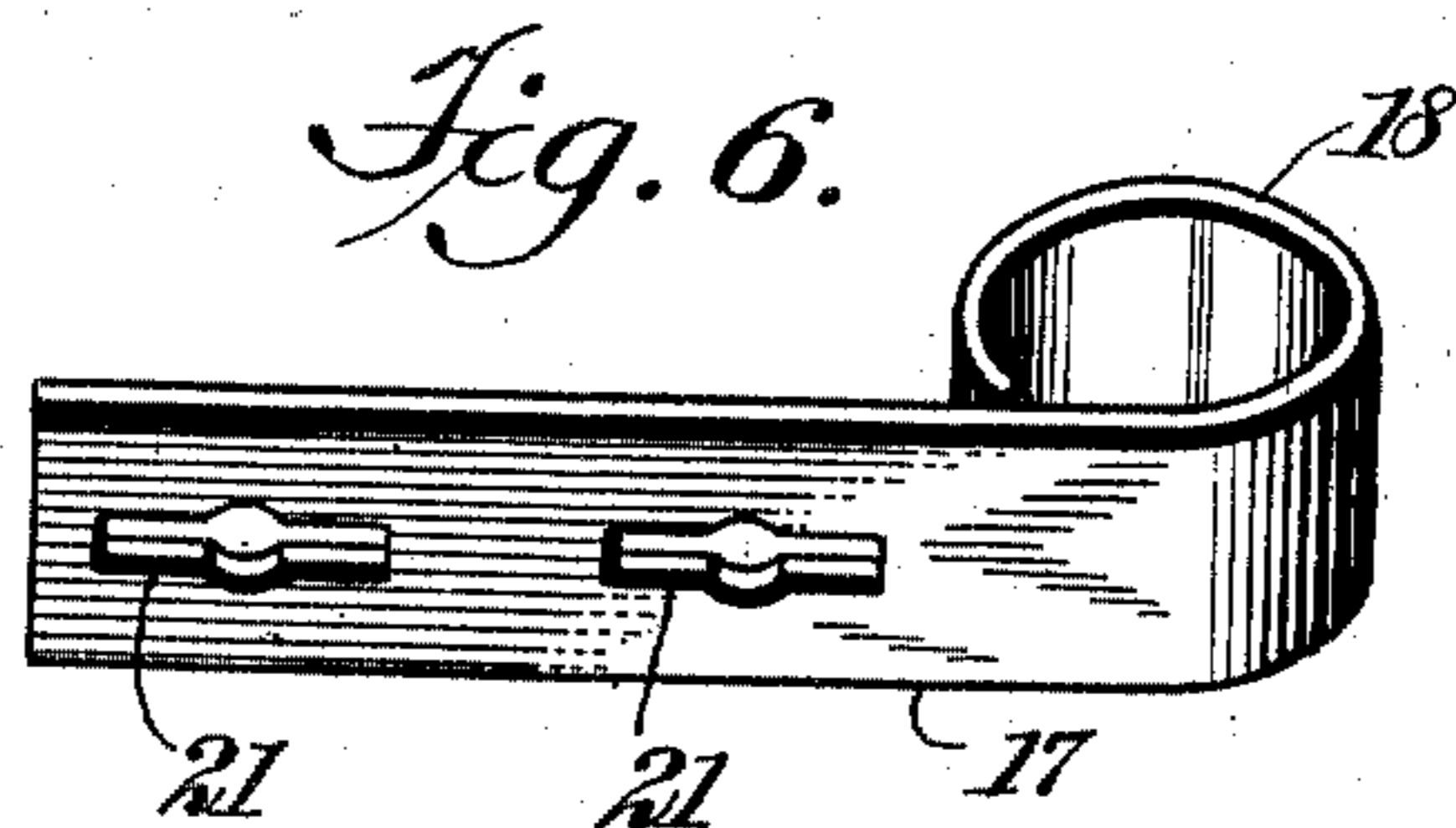
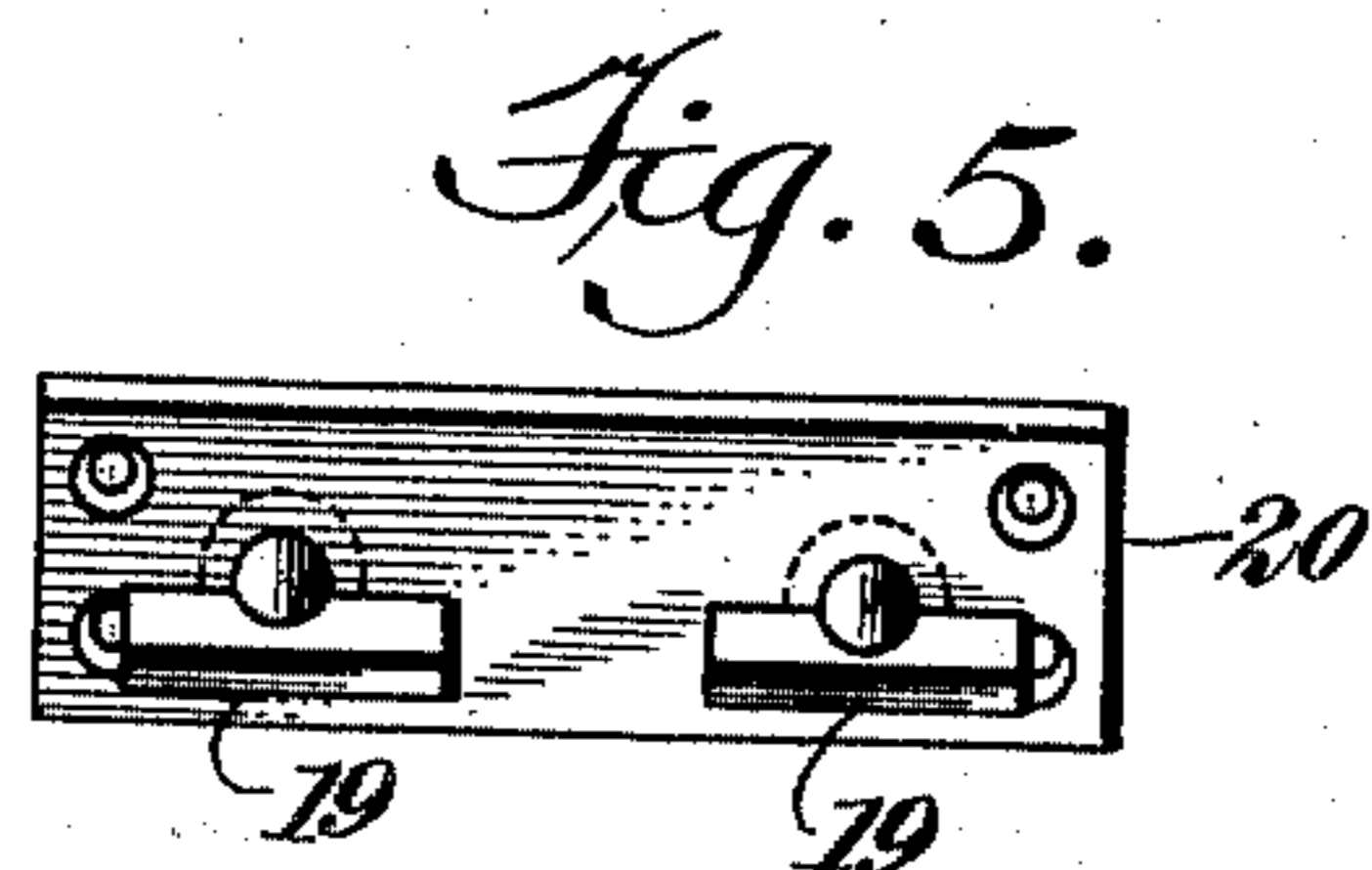
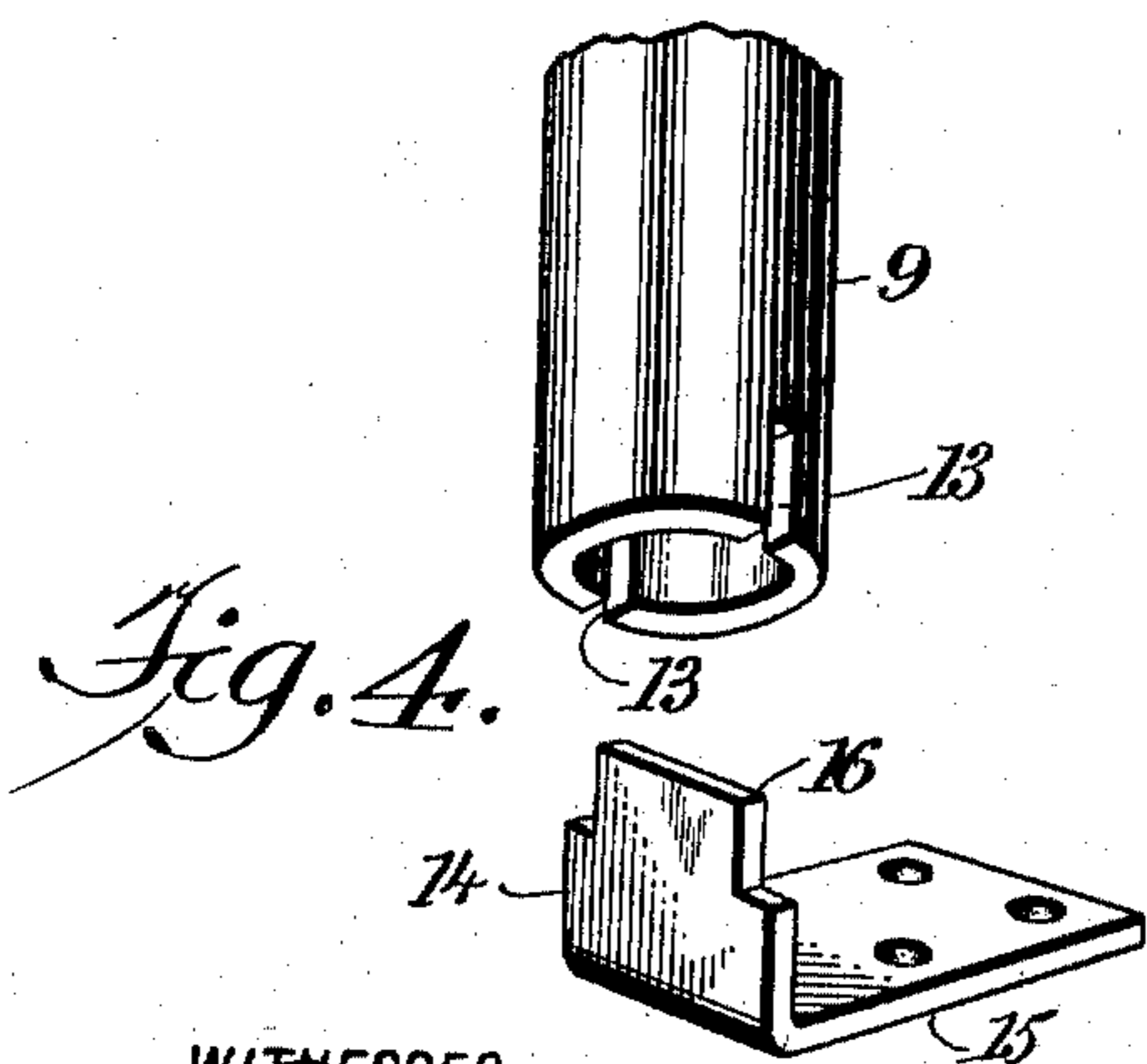
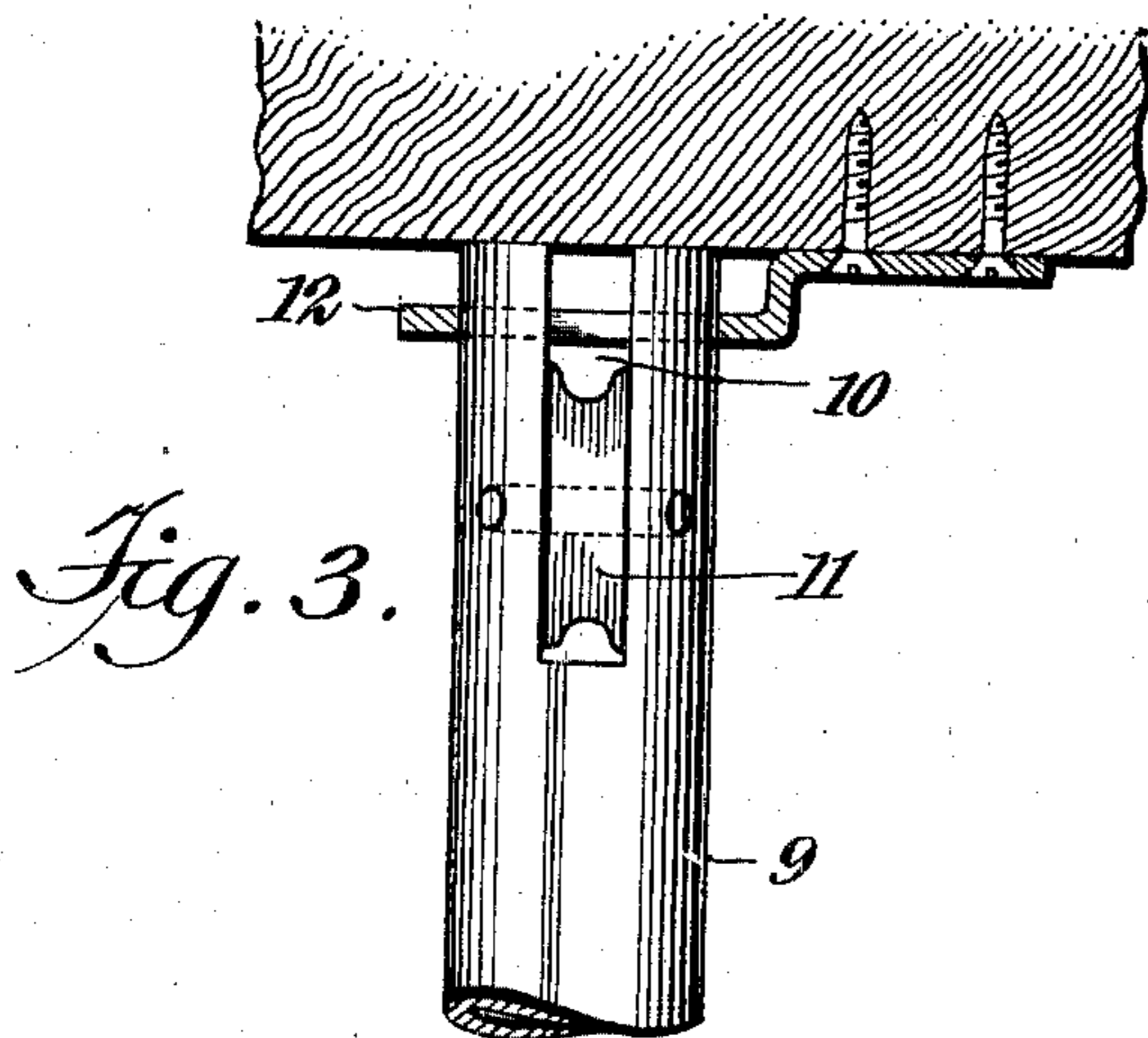
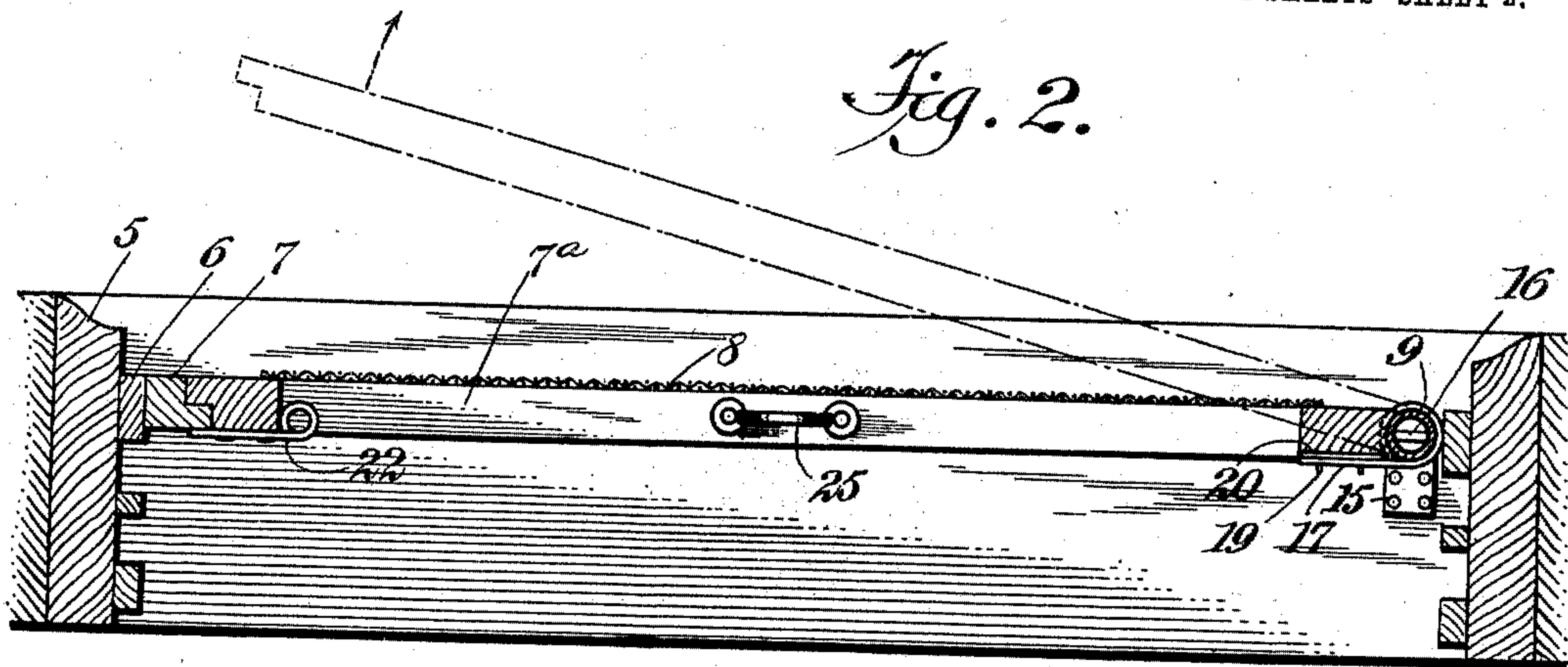
PATENTED MAY 17, 1904.

T. A. FOUST & W. A. HUNTER.
WINDOW SCREEN.

APPLICATION FILED OCT. 8, 1903.

NO MODEL.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

THADDEUS AUGHINBAUGH FOUST AND WILLIAM ALBERT HUNTER, OF
PITTSBURG, PENNSYLVANIA.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 760,390, dated May 17, 1904.

Application filed October 8, 1903. Serial No. 176,219. (No model.)

To all whom it may concern:

Be it known that we, THADDEUS AUGHINBAUGH FOUST and WILLIAM ALBERT HUNTER, both citizens of the United States, and residents of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Window-Screen, of which the following is a full, clear, and exact description.

This invention relates to improvements in window-screens for excluding flies and other insects, an object being to provide a screen and novel attachments whereby the screen may be moved vertically in the window-casing and held at any desired adjustment and also be swung horizontally with relation to the casing.

We will describe a window-screen embodying our invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is an inside elevation of a window-casing and a screen embodying our invention arranged therein. Fig. 2 is a cross-section thereof. Fig. 3 is a detail view showing a tubular guide for a balance-weight. Fig. 4 is a perspective view of a securing device for the lower end of the tube. Fig. 5 is a perspective view of one of the hinge-securing devices. Fig. 6 is a perspective view of one of the hinges, and Fig. 7 is a perspective view of a latch employed.

Referring to the drawings, 5 designates a window-casing in which the sashes slide in the usual manner. Attached to one of the outer stop-beads 6 is a rabbeted strip 7, which receives the rabbeted side bar of the netting-frame 7^a, on which the netting 8 is secured in the usual manner. At the opposite side of the casing is a vertically-arranged tube 9. At its upper end this tube is slotted, as indicated at 10, and arranged in the tube in line with the slot is a pulley 11. The upper end of the tube extends through an opening in a plate 12, secured by means of screws or otherwise to the upper portion of the window-frame.

The lower end of the tube 9 is provided with opposite notches or outwardly-opening slots 13 to receive the upwardly-extended portion 14 of a plate 15, designed to be secured to the casing-sill. The upwardly-extended portion 14 of the plate 15 has an extension 16, which projects into the tube and bears against the inner side thereof. This plate obviously will hold the tube rigidly in its vertical position and also prevent any rotary movement thereof, and, further, when desired, the tube may be readily removed upon releasing the plate 15 from the sill.

The frame 7^a has swinging connection with the tube 9 through the medium of hinges, here shown as consisting of strap-hinges 17, having ring-like ends 18 for engaging around the tube. For removably securing the hinges to the frame we employ turn-buttons 19, attached to plates 20, secured in recesses formed in the hinged upright of the netting-frame. The heads of the buttons are elongated and are designed to pass through slots 21, formed in the hinges. After passing the heads through said slots the buttons are to be turned a quarter-revolution, so as to bring the said heads in vertical relation to the slots. The bar of the netting-frame, designed for engaging with the strip 7, is provided with a sliding latch 22 for engaging with said strip 7 at its inner side.

From the hinge side of the frame 7^a a rope or chain 23 extends over the pulley 11 and connects with a weight 24, guided in the tube 9, this weight serving as a balance for the frame in its upward and downward movements and also serving to hold it in its vertically-adjusted position. The upper member of the screen-frame when closed and in lowered position will engage sufficiently tight against the lower rail of the upper sash to prevent the passing between the same of flies or other insects. Suitable provision may be made in the sash to permit the passing of the button-heads 19.

In operation when closed, as indicated in Figs. 1 and 2, the netting-frame may be readily raised and lowered by means of a handle 25, attached to the lower member of the frame

and on the upper side thereof, as shown, so as to clear the window-sash. When it is desired to swing the frame outward, it is only necessary to draw the latch 22 inward.

5 Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In connection with a window-casing, a netting-frame having a vertical movement in
10 the casing, and also having a swinging movement with relation thereto and a balance-weight having connection with the frame.

2. In connection with a window-casing, a tube arranged vertically at one side thereof, a
15 netting-frame, hinge connections between said frame and tube whereby the frame may move vertically and swing horizontally, a balance-weight movable in the tube, and a connection between the frame and said weight.

20 3. In connection with a window-casing, a guide-tube arranged in the casing at one side, the lower end of said tube having opposite notches or outwardly-opening slots, a plate adapted to be secured to the sill of the casing
25 and having an upwardly-extended portion for engaging in said notches or slots and an extension for engaging in the tube, a plate secured to the upper member of the sash-frame and having an opening through which the tube
30 passes, a pulley in the upper portion of the tube, a netting-frame having swinging connection with said tube and also having verti-

cal movement thereon, a weight movable in the tube, and a cord passing from said weight over said pulley and connecting with the
35 frame.

4. In connection with a window-casing, a rabbeted strip attached to one of the outer stop-beads, a screen-frame having one of its
40 side members rabbeted to engage with said strip, a latch for locking the frame to said strip, a tube at the opposite side of the casing, hinge connections between the frame and said tube whereby the said frame may move verti-
45 cally and swing horizontally, a weight in the tube, and a connection between said weight and the frame.

5. In connection with a window-casing, a tube arranged in the same at one side, a netting-frame, strap-hinges having portions for
50 engaging around said tube, the body portions of said hinges being provided with slots, plates secured to the frame, turn-buttons having heads for passing through said slots, a weight movable in the tube, and a connection between
55 said weight and the frame.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

THADDEUS AUGHINBAUGH FOUST.

WILLIAM ALBERT HUNTER.

Witnesses:

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