

No. 754,769.

PATENTED MAR. 15, 1904.

H. B. HIGGINS.
SEPARABLE HINGE FOR SCREENS.

APPLICATION FILED NOV. 20, 1902.

NO MODEL.

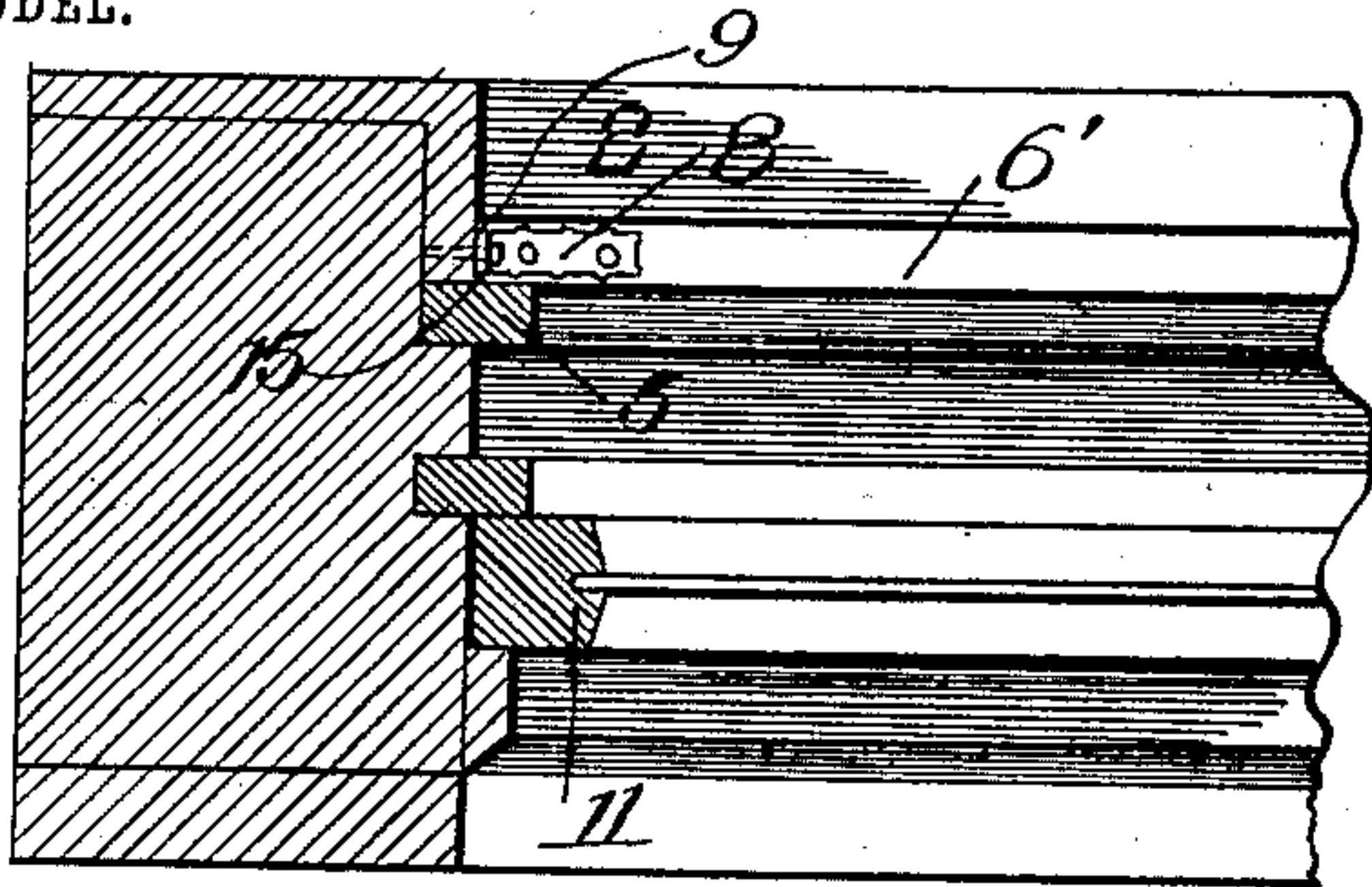


Fig. 2

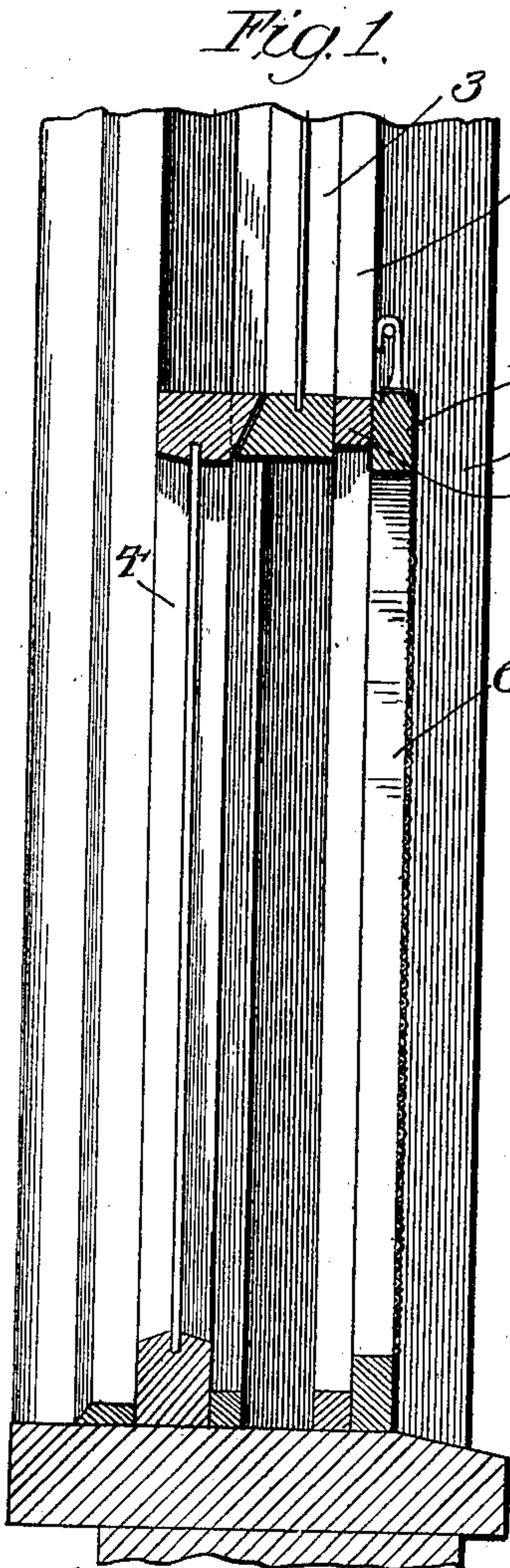


Fig. 1

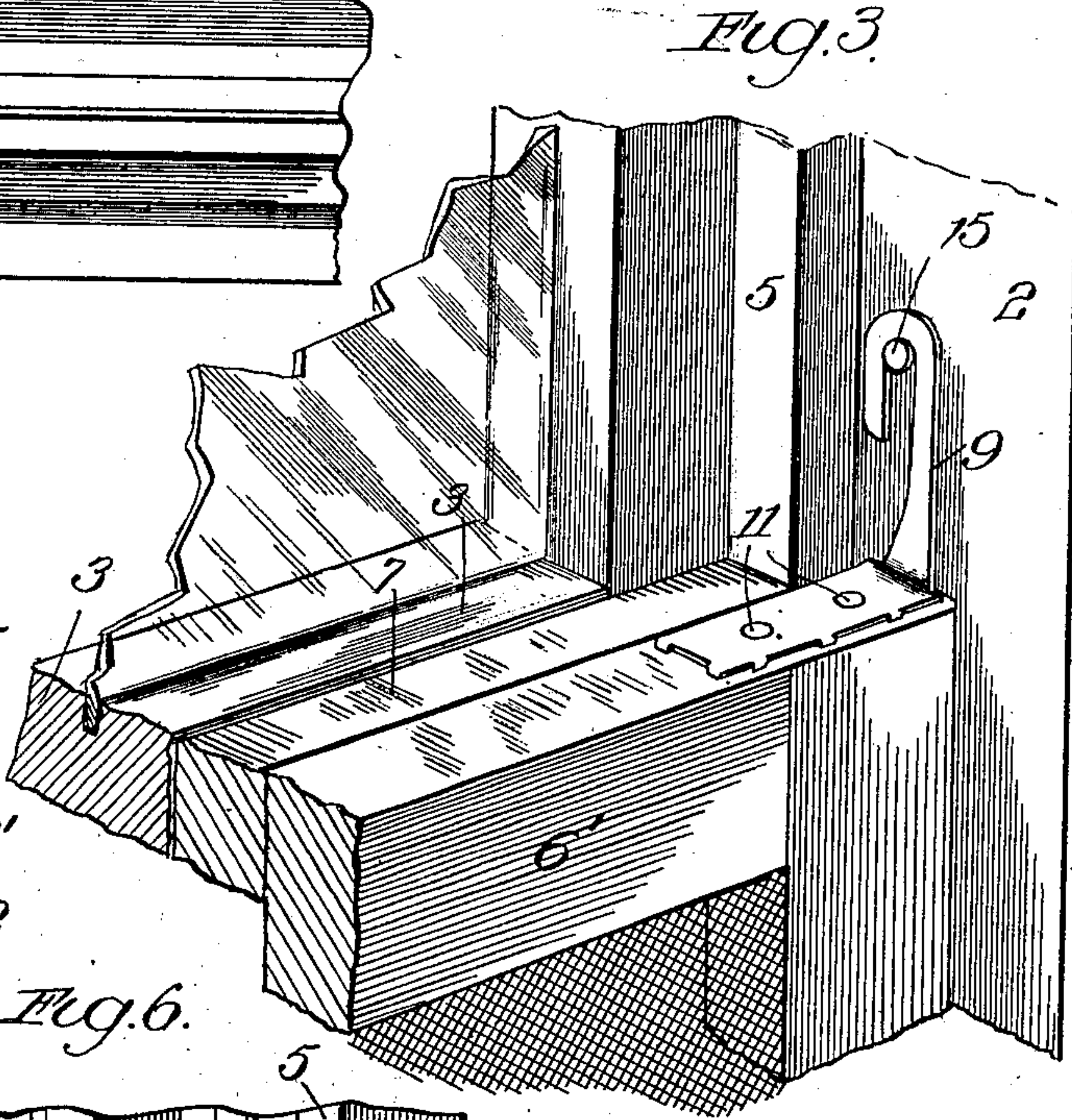


Fig. 3

Fig. 6

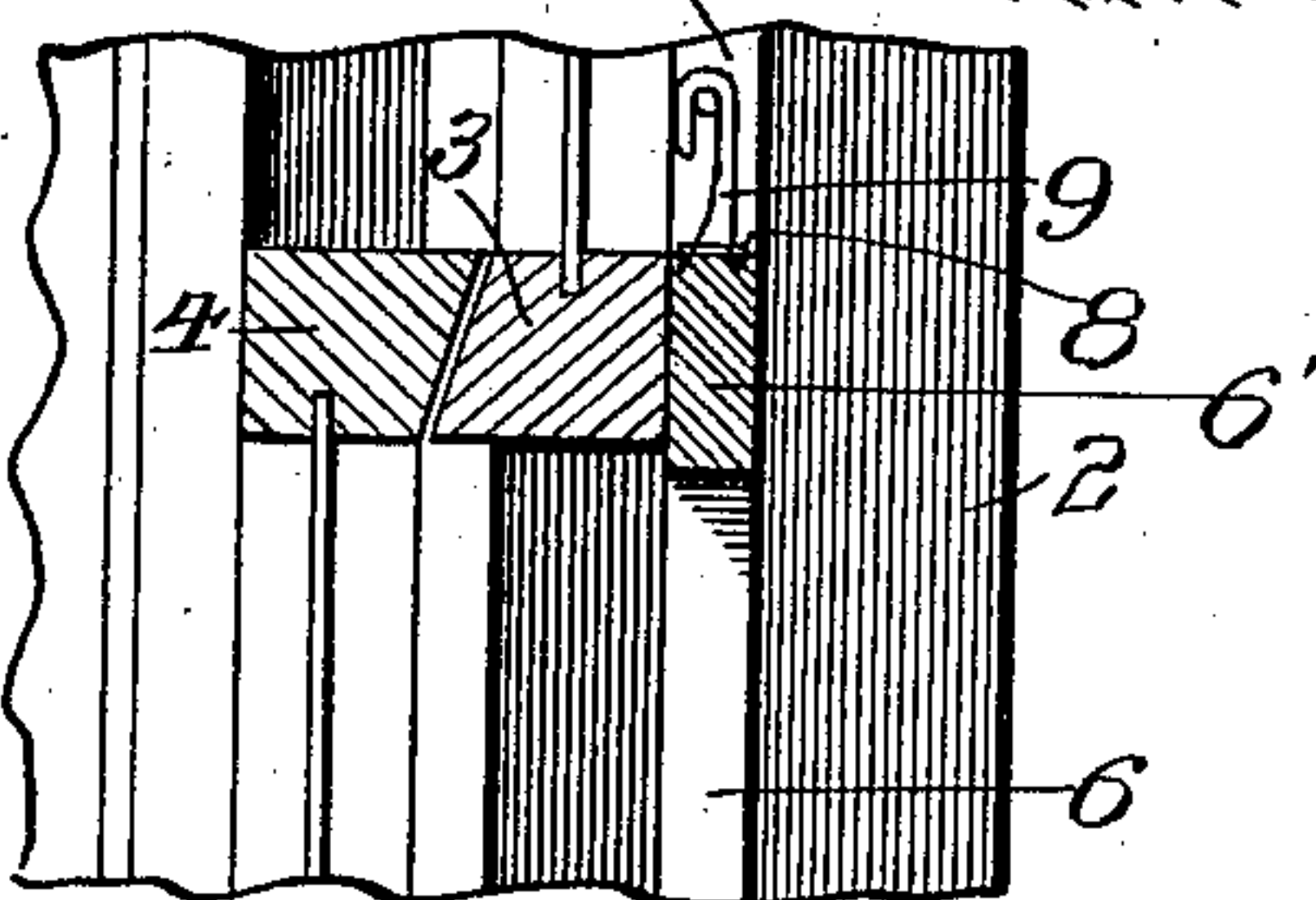


Fig. 4

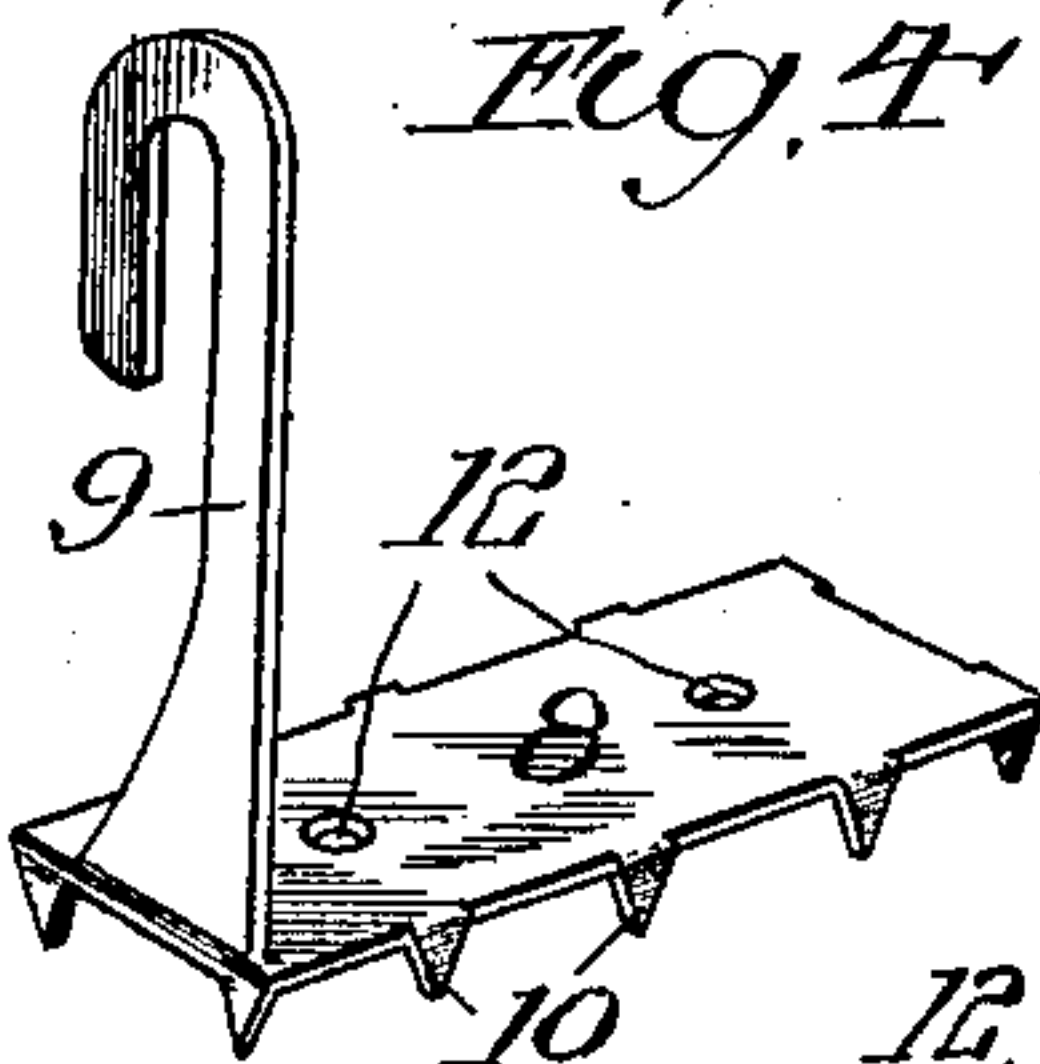
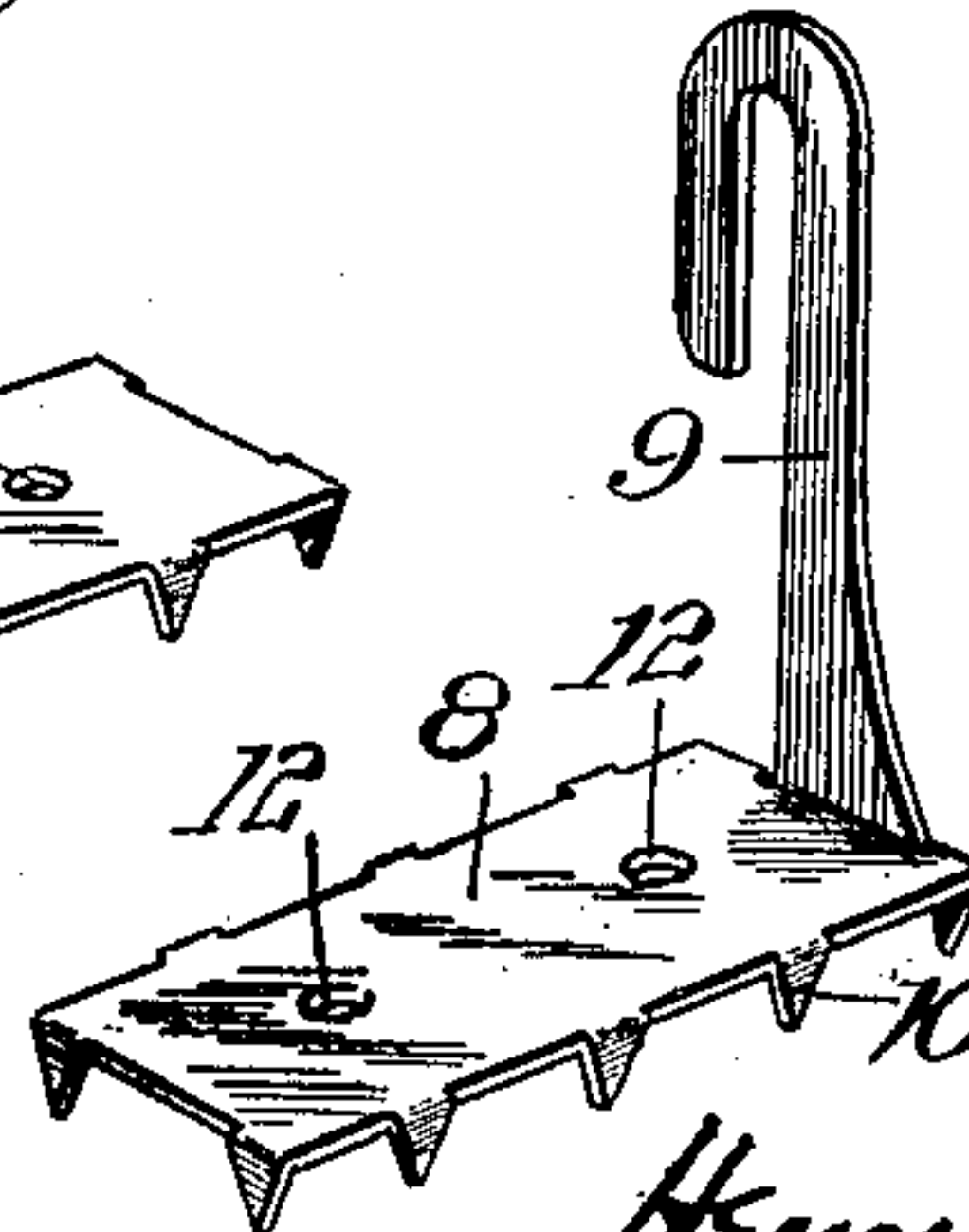


Fig. 5



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY B. HIGGINS, OF DENVER, COLORADO.

SEPARABLE HINGE FOR SCREENS.

SPECIFICATION forming part of Letters Patent No. 754,769, dated March 15, 1904.

Application filed November 20, 1902. Serial No. 132,071. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. HIGGINS, a resident of Denver, in the county of Arapahoe and State of Colorado, have invented certain
5 new and useful Improvements in Separable Hinges for Screens, of which the following is a specification.

This invention relates to means for hanging or pivoting half-sized screens in windows; and
10 the object of the invention is to provide means whereby a half-sized screen may be detachably pivoted within a window-frame and hung over the lower sash of the window.

The particular object of my invention is to
15 provide a cheap and readily-attachable screen pivot or hanger; and to this end my invention consists in the combination, with a half-sized screen, of a sheet-metal hook or hanger provided with an inwardly-turned end and having
20 an integral base provided with spurs and adapted to be secured to the screen-frame.

My invention further consists in the special constructions as to combination of parts, all as hereinafter described, and particularly pointed
25 out in the claims.

The invention will be more readily understood by reference to the accompanying drawings, forming a part of this specification, in which—

30 Figure 1 is a vertical section of a window equipped with a screen embodying my invention. Fig. 2 is a horizontal section on the line *x x* of Fig. 1. Fig. 3 is an enlarged perspective view showing my novel hanger. Figs. 4
35 and 5 are perspective views of the right and left hangers or attachments. Fig. 6 is a sectional detail showing the screen arranged between the blind-stops of the window.

As shown in the drawings, 2 represents the
40 window-frame; 3, the upper window-sash; 4, the lower sash, and 5 an outer blind-stop. The screen 6 has a frame that is of substantially the same size as the lower sash 4, and the upper rail 6' of the screen is opposite the meeting-
45 rails of the sashes. I prefer to arrange the screen against the blind-stops of the window; but, if desired, the same may be placed between the said blind-stops, in which case the upper rail of the screen would lie against the meeting-
50 rail of the upper sash 3. As preferably used,

a filling stop or strip 7 is placed between the screen and the sash 3, the same being either attached to the upper rail of the screen or permanently secured between the blind-stops of the window, serving to close the crack that
55 would otherwise be left between the sash and the screen. The essence of my invention lies in the small attachment which I employ for securing the screen pivotally within the window-frame. Devices of this class generally
60 comprise a hook or eye that is fastened on the screen and which drops over a pin or nail that is driven into the window-frame; but such devices hitherto devised are objectionable, either
65 because the same are costly, or because they are difficult to attach, or because the screen-frame is apt to be cracked or broken in screwing the attachment into place, and more particularly because it has been necessary to arrange the
70 hooks or eyes so far from the vertical edges of the screen as to necessitate the use of long pivotal nails or pins, which easily become bent and are apt to be pulled out when the screen is swung outwardly.

The special object of this invention is to
75 provide an attachment the hook portion of which shall be practically flush with the vertical edge of the screen, so that it will lie directly against the window-frame and may be used with a nail or screw, which is driven
80 close into the window-frame.

My attachments are reverse and obverse—that is, the same are made right and left for the two ends of the screen. The attachments may be castings; but I much prefer the sheet-
85 metal form illustrated in the drawings. Each comprises a plate 8 and a hook 9, which latter rises from the end of the plate. The plate being made of sheet metal may be conveniently provided with the downwardly-turned sharp
90 spurs 10, that sink deep into the wood of the screen-frame when the two nails 11 are driven through the holes 12 of the plate into the frame of the screen. The fastening thus afforded for the attachment is particularly
95 stable, though of very light weight and of little cost. The spurs operate to hold the wood of the frame when they are driven into place, and hence there is little danger of splitting the frame by the nails or screws 11. The
100

plate is arranged with its end practically flush with the edge of the screen, and the hook portion 9 of the attachment rises from the corner of the frame and practically lies against the window-frame 2. A headed nail or pin 15 is driven into the frame above the top of the screen, and the screen attachment hangs and pivots thereon. The attachments on both sides of the screen have their hooks extending inwardly, so that it is an easy matter to hang a screen or take it down. By reason of the arrangement of the hooks close to the sides of the window-frame a considerable pull may be exerted upon the screen without breaking or deranging my hinges or attachments.

As various modifications of my invention will readily suggest themselves to one skilled in the art, I do not confine my invention to the specific constructions herein shown and described.

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

1. A separable hinge comprising in its construction a plate adapted to be secured upon the top of a screen-frame and having a hook portion extending upwardly substantially at right angles thereto.

2. A hanger for screens comprising in its construction the right and left hanger attach-

ments each formed of a base-plate portion and a substantially perpendicular flat hook and adapted to be secured to the opposite upper corners of a screen-frame.

3. The separable hinge comprising in its construction the base-plate 8 having a plurality of sharp downwardly-turned spurs, and the inwardly-turned hook perpendicular to said plate, substantially as described.

4. The separable hinge for screens comprising in its construction the sheet-metal integral plate and hook, said hook being bent at a right angle to the plate and said plate having the spurs 10 and nail-holes, substantially as described.

5. A separable hinge for screens comprising in its construction right and left hangers adapted to be secured to the opposite upper corners of a screen-frame and each consisting of a plate 8, and hook 9 bent upward therefrom, and pivot-pins or nails adapted to be secured in position to be engaged by said hooks.

In witness whereof I have hereunto set my hand, this 3d day of November, 1902, at Denver, Colorado.

HENRY B. HIGGINS.

In presence of—

JULIA TRENWITH,

WILLIAM H. STEWART.