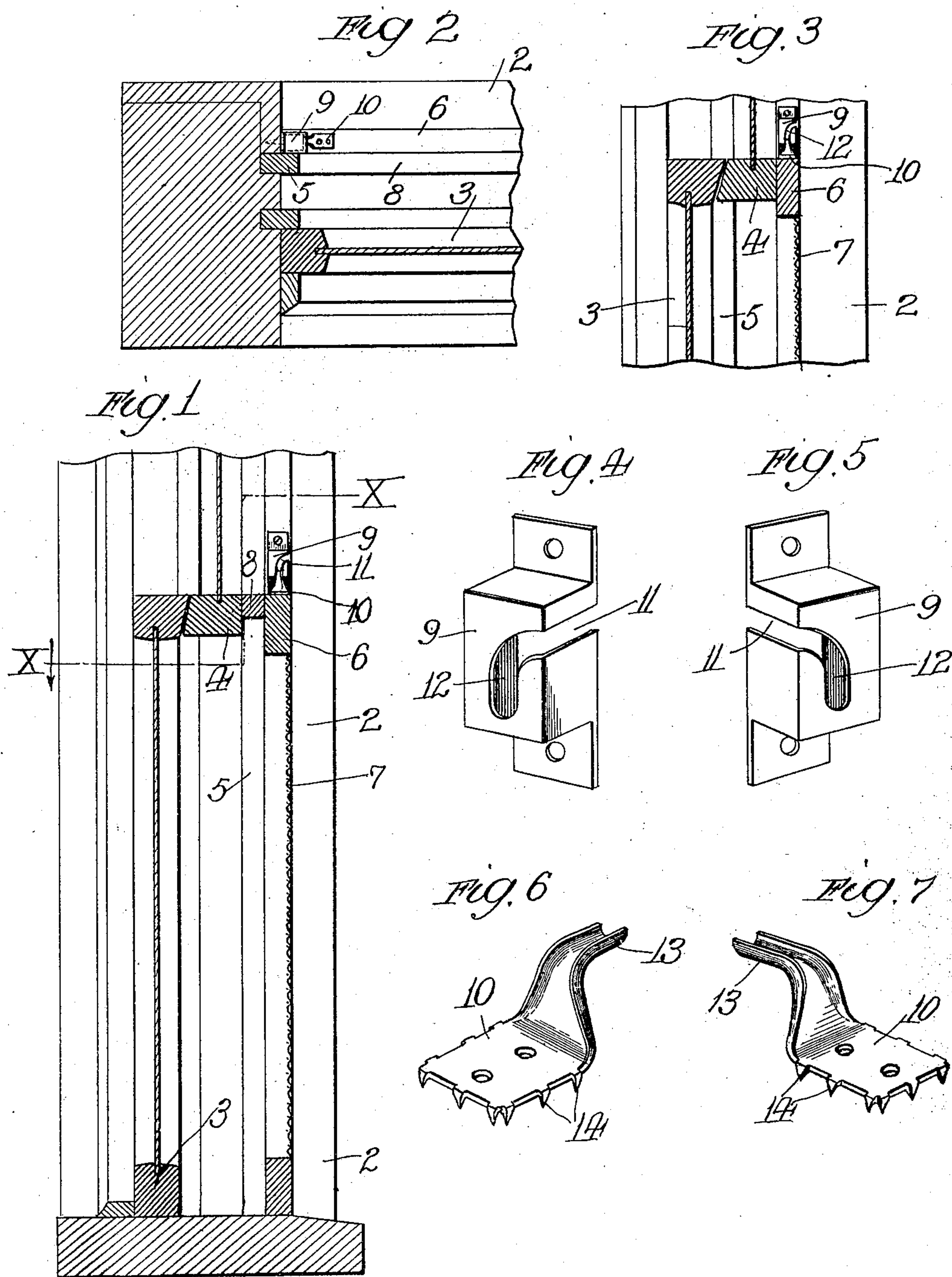


No. 754,770.

PATENTED MAR. 15, 1904.

H. B. HIGGINS.
SEPARABLE HINGE FOR SCREENS.
APPLICATION FILED NOV. 24, 1902.

NO MODEL.



Witnesses:
B. B. B. B. B.
E. B. B. B. B.

Inventor:
Henry B. Higgins
By O. Hawley, Atty.

UNITED STATES PATENT OFFICE.

HENRY B. HIGGINS, OF DENVER, COLORADO.

SEPARABLE HINGE FOR SCREENS.

SPECIFICATION forming part of Letters Patent No. 754,770, dated March 15, 1904.

Application filed November 24, 1902. Serial No. 132,664. (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 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-size screens in windows; and the object of the invention is to provide means whereby a half-size 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 provide a cheap and readily-attachable screen pivot or hanger.

My invention consists in the combination of the window frame and screen, with horizontally and vertically slotted boxes secured to said frame above the screen and plates secured to the upper rail of said screen and provided with upwardly and outwardly extending arms pivoted in said boxes; and my invention consists, further, in various details of construction and in combinations of parts, all as hereinafter described, and particularly pointed out in the claims.

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

Figure 1 is a vertical section of a window equipped with a screen having attachments or hangers embodying my invention. Fig. 2 is a horizontal section on the line *xx* of Fig. 1. Fig. 3 shows the screen hung between the blind-stops of the window-frame. Figs. 4 and 5 show the right and left hanger-boxes, and Figs. 6 and 7 illustrate the corresponding pivot-plates.

As shown in the drawings, 2 represents the window-frame containing the upper and lower sash 4 3. 5 is the blind-stop, and 6 represents the screen-frame containing the screen fabric 7. When the screen is placed against the blind-stops 5 of the window, the gap between the upper rail of the half-size screen and the opposite sash is closed by a strip 8. When, on the other hand, the screen is arranged between the opposite blind-stops, no such strip is required, as the screen rests against the

lower rail of the upper sash, as shown in Fig.

3. My hanger or attachment is applicable in either case. The hanger comprises two pairs of devices for opposite sides of the screen, arranged at the upper corners thereof. These devices are the boxes 9 and the pivot-plates 10. The boxes 9 may be castings; but I prefer to stamp or form them from sheet metal, as shown in the drawings. Each is provided with a horizontal slot 11 and a vertical slot 12, the latter merging into the former, whereby each box is constituted an inverted hook to receive the pivot portion 13 of the plate 10. The boxes are formed oppositely, so that their slots deliver outwardly—that is, the boxes are right and left to allow the screen to be hung from the outside of the window.

The hanger-plates 10, which are attached to the upper corners of the screen-frame, are formed from sheet metal, the pivot portions 13 being made by rolling the upwardly and outwardly projecting angle portions of the plates. The plates proper are preferably provided with spurs 14 to sink into the frame. The boxes and the plates are secured by screws or nails driven into the sides of the window-frame and the top of the screen-frame, respectively.

These attachments are cheap to manufacture, are strong and durable, and are neat in appearance. When the screen is hung in the boxes, it is obvious that it may be swung outwardly with ease or may be easily removed from the window.

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 for screens comprising horizontally and vertically slotted boxes adapted to be secured to the window-frame above the screen-frame and hanger-plates adapted to be secured upon the top of the screen-frame and having upwardly and outwardly extending pivot-arms adapted to be held in said boxes, substantially as described.

2. The window-screen hanger comprising

the inverted-hook boxes and the hanger-plates having curled ends constituting pivots, substantially as described.

3. A separable hinge for screens comprising
5 ing sheet-metal hanger-boxes adapted to be secured to the window-frame above the screen and sheet-metal plates adapted to be secured to the top of the screen and having the upwardly and outwardly bent curled arms piv-
10 oted in said boxes, substantially as described.

4. A separable hinge comprising boxes constructed to form hooks and adapted to the sides of a window-frame above the top of a screen, and pivots adapted to be secured to
15 the top of a screen, each of said pivots consisting of a sheet-metal base portion attachable to a screen and an integral curled or

rolled portion projecting upwardly and horizontally from the base and adapted to pivotally engage said hooks. 20

5. A separable hinge-pivot adapted to be secured to the top of a screen, said pivot consisting of a sheet-metal base portion and an integral curled or rolled portion projecting upwardly and horizontally from the base. 25

In testimony whereof I have hereunto set my hand, this 19th day of November, 1902, at Denver, Arapahoe county, Colorado, in the presence of two witnesses.

HENRY B. HIGGINS.

Witnesses:

WILLIAM H. STEWART,
JULIA B. TRENWITH.