No. 715,034. Patented Dec. 2, 1902.

B. F. DOUGLASS.

SCREEN HANGER AND LOCK.

(Application filed Mar. 24, 1902.)

(No Model.)

Fig. 3

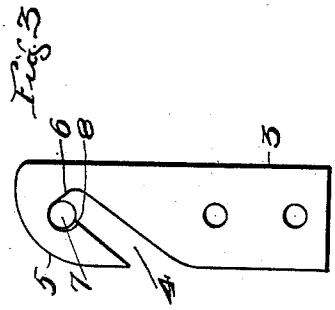


Fig. 4

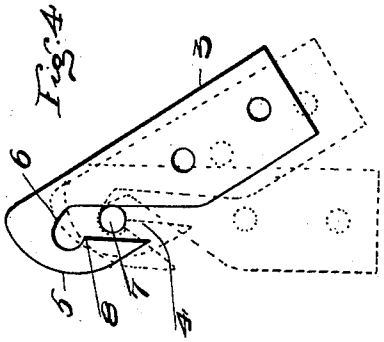


Fig. 2.

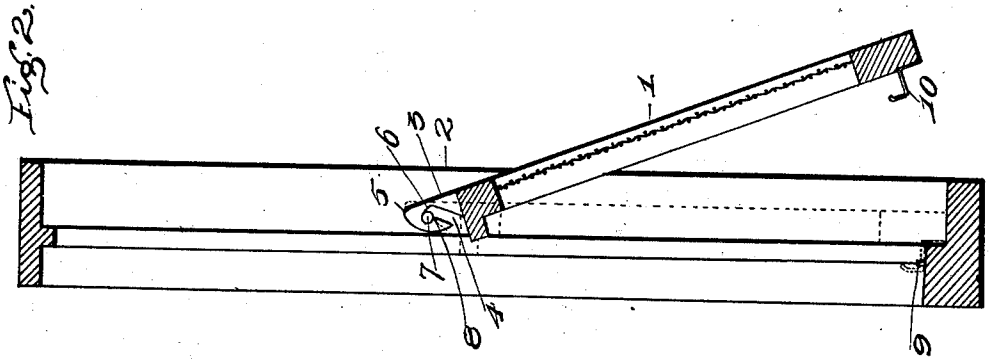
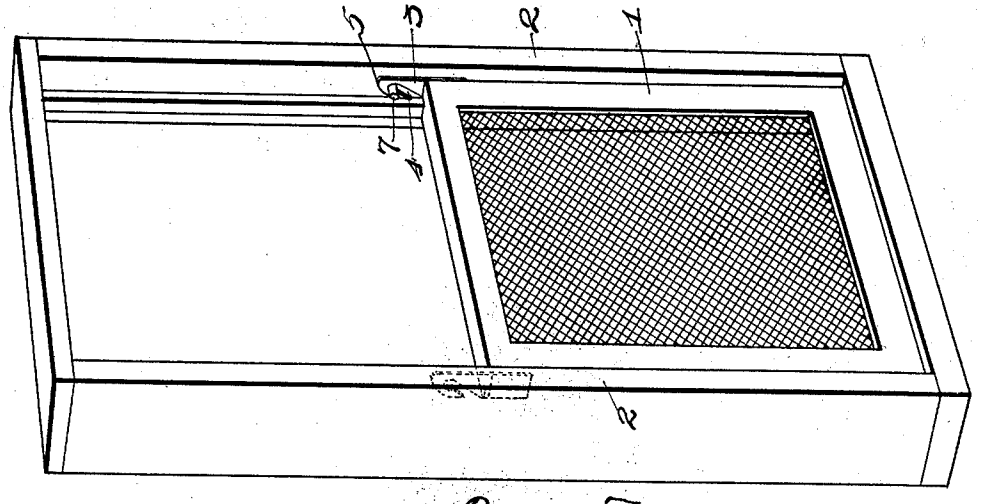


Fig. 1



Witnesses
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UNITED STATES PATENT OFFICE.

BENJAMIN FRANKLIN DOUGLASS, OF ST. LOUIS, MISSOURI.

SCREEN HANGER AND LOCK.

SPECIFICATION forming part of Letters Patent No. 715,034, dated December 2, 1902.

Application filed March 24, 1902. Serial No. 99,613. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN FRANKLIN DOUGLASS, a citizen of the United States, residing at 3716 Cook avenue, in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Screen Hangers and Locks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in a combined screen hanger and lock; and it consists in the novel arrangement, construction, and combination of parts, as will be more fully hereinafter described, and set forth in the claim.

The object of this invention consists in the manner in which the screen is applied and removed and held in a locked position when closed.

A further object is the simplicity of construction and the rapidity of removing and replacing in the window.

Figure 1 is a perspective view of a window, showing my screen in position. Fig. 2 is a vertical sectional view of the window and screen, the screen being in a position to be removed from the window-frame by raising it upwardly. Fig. 3 is a detail view of the hanger made use of in carrying out my invention. Fig. 4 is a similar view as Fig. 3, showing the same in various positions and in the act of being removed from its pivot.

In the construction of the device, as shown, I provide a screen 1 of ordinary construction, arranged to be placed in the window-frame 2. To the upper ends of each side of the screen-frame I apply in any desirable manner a hanger 3, constructed, preferably, of a strip of flat metal and provided with an angular slot 4, forming a hook 5 on its upper free end. The slot 4 terminates into a recess 6, formed at right angles and acting as a bearing upon which the screen is supported. To each side of the window-frame is placed a trunnion 7, over which the hook is placed. The projection 8, formed by the slot and recess, acts as a lock, preventing the screen from being raised or removed while the same is in a vertical position. Upon the window-sill I place a trunnion 9 and on the horizontal members of the screen-frame a spring 10, having a notch to correspond with the trunnion 9, whereby the screen may be locked when closed.

To remove the screen from the window, it is necessary to place the screen in a tilted position, as shown in Figs. 2 and 4, when the same can then be raised upwardly. The inclined surfaces of the recess and slot will free the projection 8 from the trunnion 7 and pass out.

Having fully described my invention, what I claim is—

In combination with a window-frame provided with a pair of pintles one upon each side of the frame, of a screen, a pair of hangers attached to the outer faces of the side frames of the screen so as to project above the screen, said hangers each made from a single sheet of metal and having a hooked projecting terminal whose slot is substantially L-shaped, the long arm thereof extending inclinedly downward to the inner face of the screen, while its short arm is at substantially right angles to the long arm and extends upwardly terminating in a semicircular end, and a catch upon the longer portion of the screen-frame to engage the window-frame, said hangers being adapted to have the pintles slide in the long arm of their slots and when the screen is in the same plane as the window-frame to have the pintles rest in the semicircular ends of the slots to prevent the screen from being raised vertically.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN FRANKLIN DOUGLASS.

Witnesses:

W. G. SHIELECKE,

WM. H. STUKENBERG.