

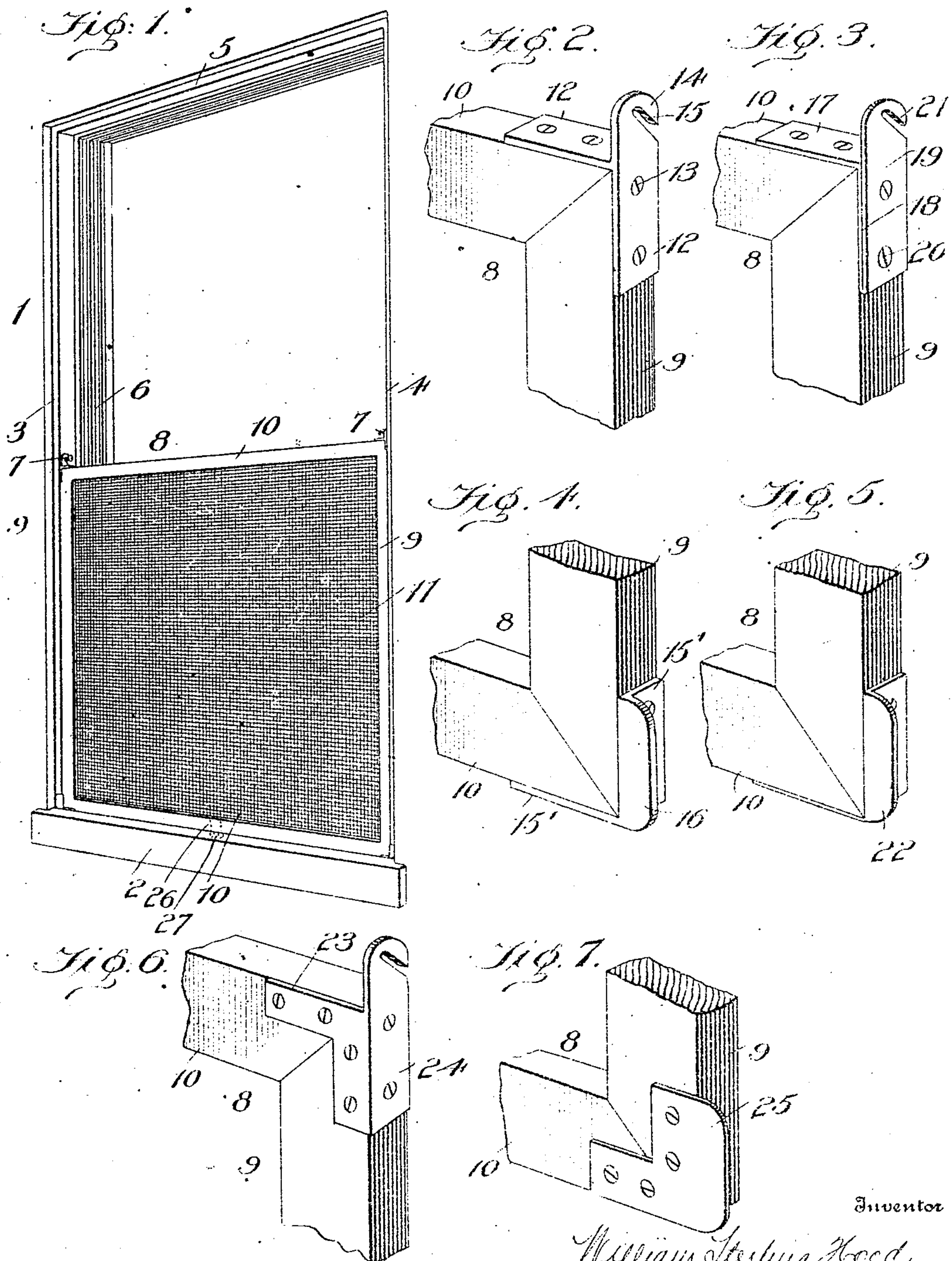
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PATENTED JUNE 26, 1906.

W. S. HOOD.

WINDOW SCREEN.

APPLICATION FILED AUG. 25, 1905.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## WINDOW-SCREEN.

No. 824,693.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed August 25, 1905. Serial No. 275,710.

*To all whom it may concern:*

Be it known that I, WILLIAM STERLING HOOD, a citizen of the United States, residing at 924 Pierce avenue, Memphis, in the county of Shelby and State of Tennessee, have invented new and useful Improvements in Window-Screens, of which the following is a specification.

My invention has relation to new and useful improvements in window-screens of the general character or type embodying in their structure an open framework constructed to fit within the window-framing, the frame being provided with a pane of wire-netting or other open-mesh fabric to prevent the ingress of insects through the window without obstructing the passage of air and light.

The primary object of the invention is to provide a screen with improved and simplified means for detachably and removably supporting it in position for use in a window-framing.

A further object is to provide a corner brace or bracket for the screen-frame which will embody in its construction a suspension device for pivotally and detachably hanging the screen-frame in position for use.

A further object is to provide a corner brace or bracket which will embody in its construction means to act as a stop to limit swinging movement of the screen.

The invention consists in the improvements to be fully described hereinafter and the novelty of which will be particularly pointed out and distinctly claimed.

I have fully and clearly illustrated my invention in the accompanying drawings, to be taken as a part of this specification, and wherein—

Figure 1 is a perspective view of a window-frame, taken from the outer side and showing the window-screen embodying my invention in position for use. Fig. 2 is a detail perspective view of one corner of the screen-frame, showing the integrally-formed corner-brace and suspension device. Fig. 3 is detail perspective view of a lower corner of the screen-frame; showing the integrally-formed corner-brace and stop. Fig. 4 is a perspective view of a modified form of brace and suspension device. Fig. 5 is a view in perspective of a modified form of the brace and stop. Figs. 6 and 7 are views in perspective of further modifications.

Referring to the drawings by numerals of reference, 1 designates a window-frame of

any well-known construction, in connection with which my invention is shown in applied position for use, it being one of the important advantages of my invention that it may be fitted to any window-frame of common and ordinary construction without modifying or changing the construction thereof and without making any additions thereto.

The window-frame of the construction shown embodies the usual sill 2, vertical side pieces 3 4, and top cross-piece 5, the inner vertical faces of the side pieces being provided with proper guide-beads 6, between which the respective sliding sashes (not shown) move. Located on the inner side of each of the side pieces 3 4, outside of the guide-bead thereon, is a pivot-pin 7, which may be of any suitable construction and in the present instance is shown as consisting of an ordinary screw which efficiently performs the functions for which it is employed. It will be observed that these screws are arranged directly opposite to each other and, as shown, are located at a point just above the lower rail of the upper sash. These screws constitute supports for the screen-frame, as hereinafter set out, and as shown, are adapted to support a screen of a size to cover the lower half of a window; but it will be understood that in cases where it is desired to employ a screen to close the entire window-frame these pivot-pins will be located closely adjacent the upper cross-piece of the window-frame.

8 designates the screen, consisting of the usual frame built up from side pieces 9 9 and upper and lower end pieces 10 10 in the usual manner, the frame being closed by the usual wire-net 11, as clearly shown. The frame of the screen is provided with corner-braces of novel form, those at the upper corners being provided with devices formed integral therewith for detachable engagement with the pins in the frame, whereby the screen is suspended in the window-frame and the braces at the lower corners being formed with integral stops projecting laterally from the frame to engage the side pieces of the window-frame to arrest the swinging movement of the screen toward the window-sashes.

For the purposes of this application the upper braces are shown as comprising limbs or straps 12 12, disposed at right angles to each other and adapted to be arranged about the corner of the frame, said corner projecting into the angle between said straps, the latter



being laid, respectively, in close contact with the top edge of the upper end piece and the outer edge of the side pieces and secured thereto in any suitable manner, as shown, by the screws 13. Formed integral with the corner-brace and constituting practically an extension or prolongation of the vertically-disposed strap or limb thereof is a suspension device consisting of a vertically-directed hook 14, having the inclined opening 15 to receive and hook over the pins 7 7 on the inner sides of the window-frame. It will be seen that the hook on the brace is formed with its outer face continuous with the face of the vertical brace-strap, so that when the screen is suspended in position in the window-frame said hooks will be flush with the vertical sides of the screen and will not interfere with the movement of the latter into or out of position.

The corner-braces at the lower frame-corners of the screen are, as heretofore stated, formed to act as stops for the inward movement of the screen, and these braces are of substantially the same form as those heretofore described, consisting of the angularly-disposed straps 15 15 to extend on opposite sides of the joint at the corner of the frame and to be fastened to the lower horizontal piece and the vertical side pieces. Formed integral with the vertical limb of each of the lower corner-pieces is a laterally-projecting piece 16, extending from the outer vertical edge of said limb at right angles thereto and extending outwardly beyond the side pieces of the screen-frame a sufficient distance to engage the outer faces of the vertical side pieces of the window-frame when the screen is swung inwardly on the pivots 7 7 to serve as a stop to limit the inward movement of the screen.

In the forms of the invention shown in Figs. 1 to 3 of the drawings the upper and lower sets of corner-braces and the suspension devices and stops formed integral, respectively, therewith are cast in one piece, which provides a very simple and satisfactory form of construction; but the said corner-pieces may, if desired, be made of sheet metal, as shown in Figs. 4 and 5. In Fig. 4 the upper corner-brace and suspension device are shown as being constructed from a single band or strip of sheet metal, said band being laid on the top of the upper rail of the screen, as at 17, and secured thereto and then carried around the corner and down the outer face of the side piece for a suitable distance, as at 18, said band being then reversed and carried vertically parallel to and in contact with the part 18, as shown at 19, said two portions being secured rigidly in position by means of screws 20. The free end of the band projects above the upper rail of the screen and is formed with a hook 21 of

substantially the same form and for the same purpose as the hook 14, heretofore described.

The form of the lower corner-piece, as shown in Fig. 5, is practically the same as that shown in Figs. 1 to 3; but instead of being cast the said corner-piece is formed of sheet metal, the stop being bent up at right angles to the vertical limb thereof, as shown at 22.

In Figs. 6 and 7 further modifications are shown, in the former the brace consisting of the common form of plate formed with limbs 23 at right angles to each other, but in the same plane and adapted to be laid flat on the face of the screen-frame in the corner thereof, so that said limbs lie, respectively, on the adjoining pieces of said frame. In this form the suspension-hook is formed integral with the vertical edge of the brace, but is bent at right angles to the plane of the brace, so as to lie flat upon the outer vertical edge of the screen-frame, as at 24. In this form of the invention the stop consists of an extension 25, forming an integral part of the frame, said stop being in the same plane as the body or major part of the brace.

When the screen embodying the improvements is to be applied to a window-frame, the hooks are placed over the pins 7, and the screen is then permitted to swing inwardly on said pins as pivots toward the window-sashes until the stops carried by the lower corner-pieces abut the vertical members of the window-frame, when the screen will be in proper position to attain the objects for which it is employed. The lower end of the screen may be secured in position against outward movement by means of a suitable latch 26 on the screen, which coöperates with a catch 27 on the window-sill.

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

1. In a window-screen, a screen-frame, corner-braces at the upper and lower corners thereof, each of the upper braces having an attaching device formed integral therewith, and each of the lower braces having a stop formed integral therewith, said stop projecting laterally beyond the screen-frame.

2. In a window-screen, a screen-frame, suspension devices carried at the upper portions thereof, corner-braces at the lower corners of said frame, each lower corner-brace having a stop formed integral therewith, said stop projecting outside the outer edge of the screen-frame.

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

W. S. HOOD.

Witnesses:

JNO. COLBERT,  
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