No. 772,001. PATENTED OCT. 11, 1904.

E. G. RUST.

WINDOW SCREEN HANGER.

APPLICATION FILED MAR. 19, 1904.

NO MODEL.

Fig. 1

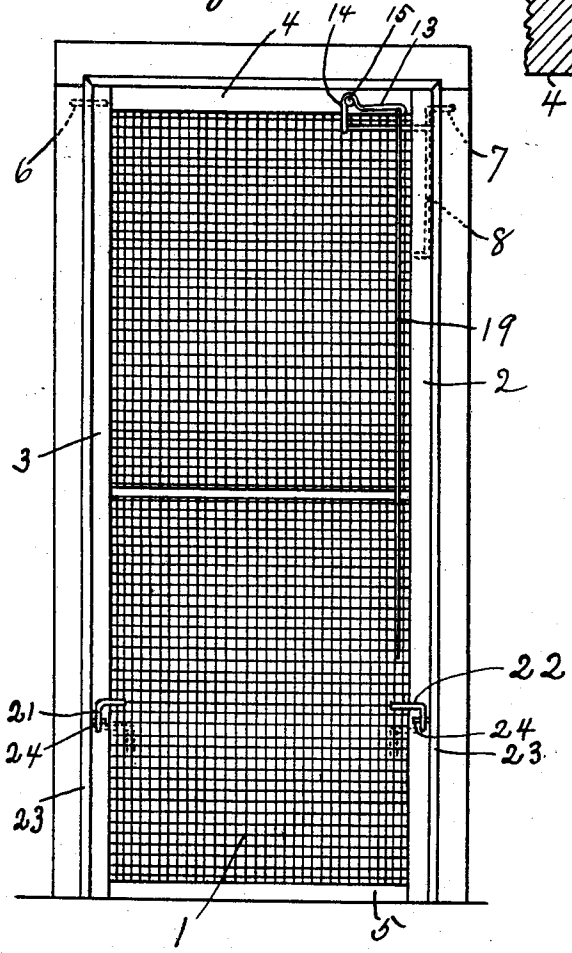


Fig. 2

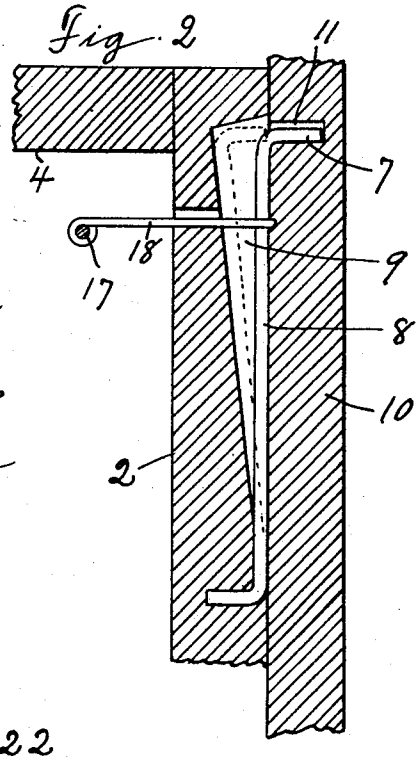
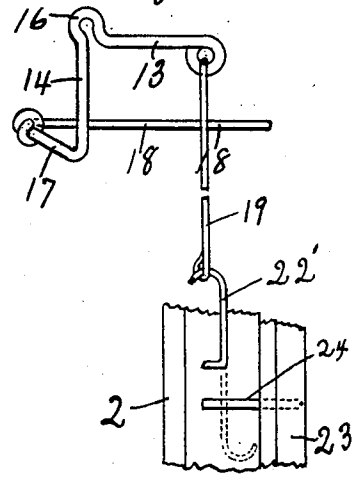


Fig. 3



Witnesses

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No. 772,001. Patented October 11, 1904.

UNITED STATES PATENT OFFICE.

EMORY G. RUST, OF DALLAS, TEXAS.

WINDOW-SCREEN HANGER.

SPECIFICATION forming part of Letters Patent No. 772,001, dated October 11, 1904.

Application filed March 19, 1904. Serial No. 198,964. (No model.)

To all whom it may concern:

Be it known that I, EMORY G. RUST, a citizen of the United States, residing at Dallas, Texas, have invented certain new and useful Improvements in Window-Screen Hangers, of which the following is a specification.

My invention relates to hangers for screens, storm-sash, and similar devices, and more particularly to hangers by which the screens may be pivotally and removably mounted; and the object is to provide simple and inexpensive devices for hanging screens in such a manner that screens may be supported at the top part on pivots, so that the bottom parts of the screens may be swung outward at will.

The screens are also made easily removable, so that they can be taken down or hung up whenever desired.

Means are also provided for locking the bottom parts of the screens.

Other objects and advantages will be fully explained in the following description, and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings, which form a part of this specification and application.

Figure 1 is an interior elevation of a screen supported by my improved hangers and locked by thumb-latches. Fig. 2 is a broken vertical section of a part of a screen-frame and a part of a window-frame. Fig. 3 is a perspective view of the lever for releasing the screen from its pivotal bearings and showing a variation in the latches for locking the bottom of the screen in place.

Similar characters of reference are used to indicate the same parts throughout the several views.

The illustration shows a screen for the entire window.

The screen 1 is provided with frame-pieces 2 and 3 for the side and 4 and 5 for the bottom and top pieces. The side pieces 2 and 3 extend the entire height of the window. The screen is pivotally supported near the top part by means of lugs 6 and 7, carried by the screen-frame. The lug 6 is simply a suitable pin driven into the screen-frame. A suitable socket or bearing for the lug 6 is made in the window-frame. The lug 7 is part of a spring-wire 8, which is provided within a groove 9 in the side piece 2 of the screen, the lower end being bent and driven into the frame-piece 2, as shown in Fig. 2. The groove 9 is made deeper toward the upper part, so that the wire 8 may be drawn back into the groove until the point of the lug 7 is drawn entirely out of the window-frame 10. The socket or hole 11, formed in the window-frame piece 10, is made large enough, so that the lug 7 may be easily inserted and removed.

The screen-hanger is applicable to half-screens as well as to full screens.

Means are provided for operating the lug 7. A bell-crank lever having the arms 13 and 14 is provided with a fulcrum 15, driven into the screen frame-piece 4. This lever may consist of a piece of steel wire bent at 16 to form an eye to engage the fulcrum 15. At the lower end of arm 14 this wire is bent at right angles to form an arm 17, projecting partly under the screen frame-piece 4. The cord 18 engages the arm 17 in an eye formed therein and is attached to the lug-carrying spring 8. A wire may be substituted for the cord 18, as any suitable strip of material may be used for the same purpose. A hand-cord 19 is attached to the arm 13 for operating the bell-crank lever. An eye 20 may be formed at the end of arm 13 to be engaged by the cord 19. A simple pull on the cord 19 will remove the lug 7 from the window-frame 10.

The screen is locked in place at the bottom by thumb-latches 21 and 22. The latches 21 and 22 consist each of a piece of wire or rod having a portion thereof threaded to screw into the frame-piece 2 or 3 and then bent twice at right angle to engage a suitable pin 24, driven into the stop 23. To release the latches from the pins 24, turn the latches to the positions indicated by the dotted lines.

I prefer to construct the latches for holding the bottom of the screen in place as shown in the variation in Fig. 3. The same lug 24 may be used. The latch 22′ is driven into the screen-frame 2 and 3. When the frame is locked in place by the latch 22′, this latch occupies the position of the dotted line in Fig. 3, and so catches behind the lug 24. This

latch 22′ is also adapted to hold the lug 7 out of its socket for the purpose of removing the screen or hanging the same. The cord 19 is pulled down, and the latch 27 is turned around to the position indicated in Fig. 3, and the cord 19 looped or caught on the latch. This latch will hold the cord 19 pulled down, and thus permit the removal of the screen from the wooden frame. The same thing can be done when the screen is to be hung. The cord 19 is pulled down until the lug 7 is drawn back in the recesses 9 of the frame 2, and the cord is hooked on the latch 22′. This will hold the lug 7 back in the recess 9 while the screen is being put in place.

To mount a screen, place the side frame-piece in position so that the lug 6 will enter its socket or bearing in the window-frame and then pull on the cord 19 and draw the frame-piece 2 in position and release the cord 19. The screen may then be locked at the bottom by turning the latches 21 and 22 to the positions indicated in Fig. 1. To remove the screen, turn the latches 21 and 22 to the positions indicated by dotted lines in Fig. 1, pull on the cord 19, and at the same time pass the frame-piece 2 out of position, and then draw the frame-piece 3 out of its position.

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

1. A swinging removable screen, comprising a screen having a frame of suitable construction, one side thereof carrying a lug, the other side having a groove formed therein and a spring mounted in said groove and having a lug projecting from said groove and having one end driven into said frame-piece, a bell-crank lever fulcrumed on said frame, a cord attached to one arm of said lever and to said spring, a hand-cord attached to the other end of said lever, sockets being formed in the window-frame for said lugs.

2. Screen-hangers for a screen, comprising a lug inserted in one side of the screen, a spring mounted in a groove in the other side of the screen and having a lug projecting from said groove and having one end driven in said screen, a lever fulcrumed on said screen, a cord attached to one arm of said lever and to said spring, a hand-cord attached to the other end of said lever and means for locking the lower end of said screen in place, bearing-sockets being formed in the window-frame for said lugs.

3. Screen-hangers for a screen, comprising a lug inserted in the upper part of one side of the screen and engaging a bearing-socket in the window-frame, a spring bearing a lug inserted in the upper part of the other side of the screen, said lug engaging a bearing-socket in the window-frame and a groove being formed in the side of the screen deep enough for drawing said lug from its socket, a lever fulcrumed on said screen and operatively connected to said spring for operating said lug, and means for locking the lower part of the screen in place.

4. Screen-hangers for a screen, comprising a lug attached to one side of the screen-frame, a spring-lug attached to the other side of the upper part of the screen, said lugs being provided with suitable bearings in the window-frame, a suitable lever fulcrumed on said screen and operatively connected to said spring-lug for the purpose set forth, a hand-cord connected to said lever and latches for locking the lower part of the screen in place said hand-cord being adapted to engage one of said latches for the purpose set forth.

In testimony whereof I set my hand, in the presence of two witnesses, this 28th day of January, 1904.

EMORY G. RUST.

Witnesses:
D. W. BOWSER,
A. L. JACKSON.