(No Model.)

W. J. GREENMAN.

ADJUSTABLE WINDOW SCREEN.

No. 565,266. Patented Aug. 4, 1896.

Fig. 1.

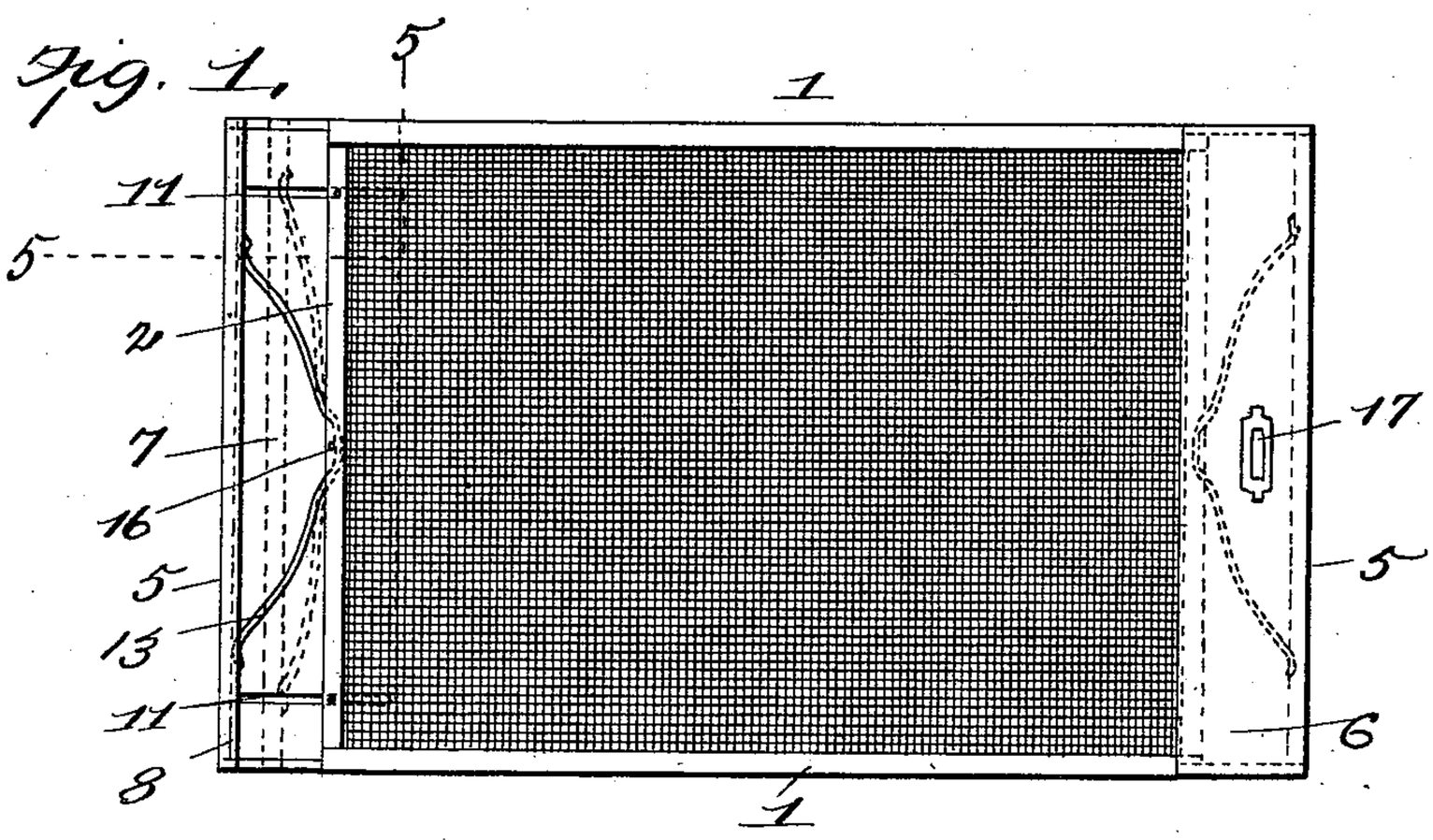


Fig. 2.

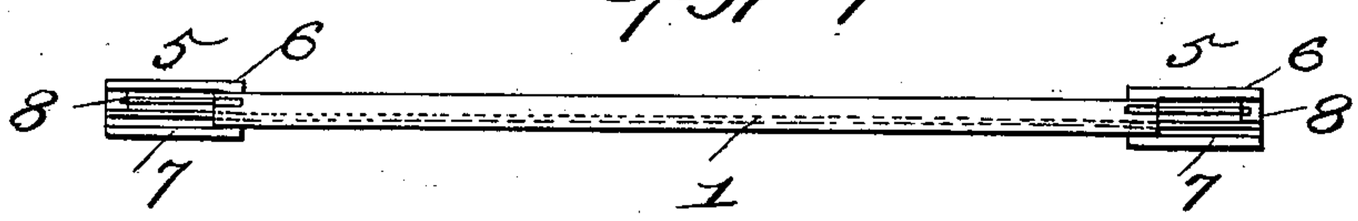


Fig. 3.

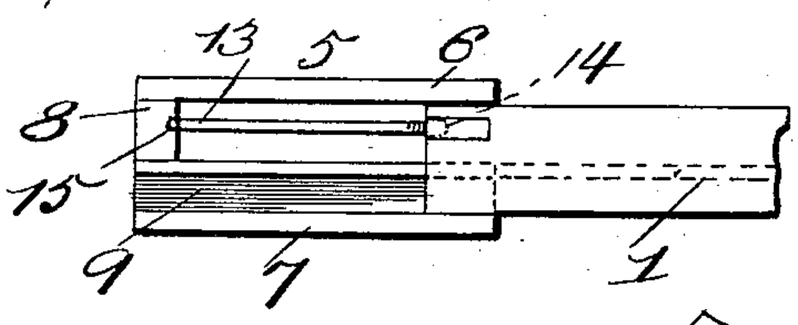


Fig. 4.

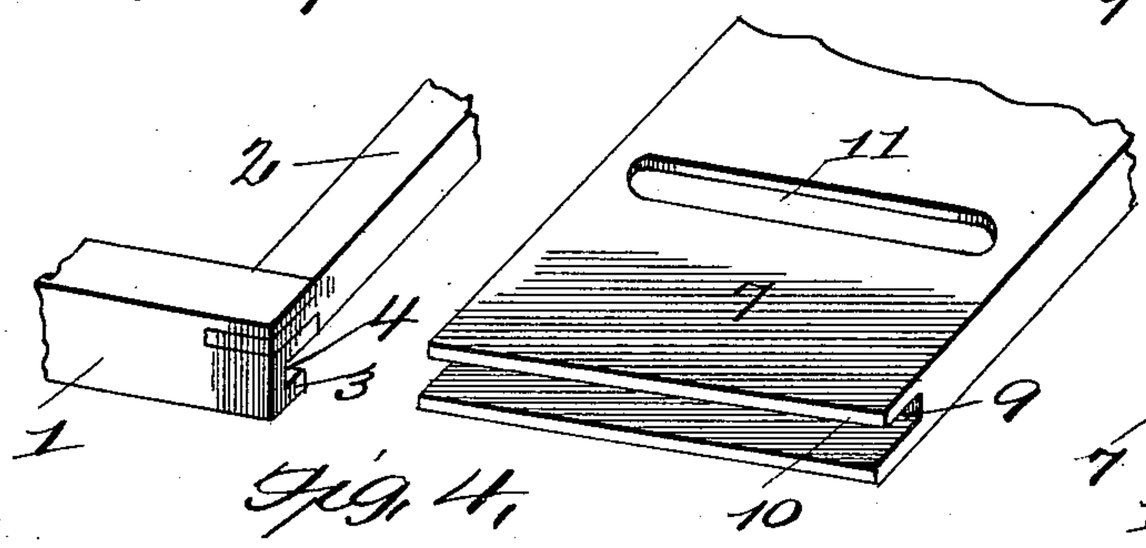
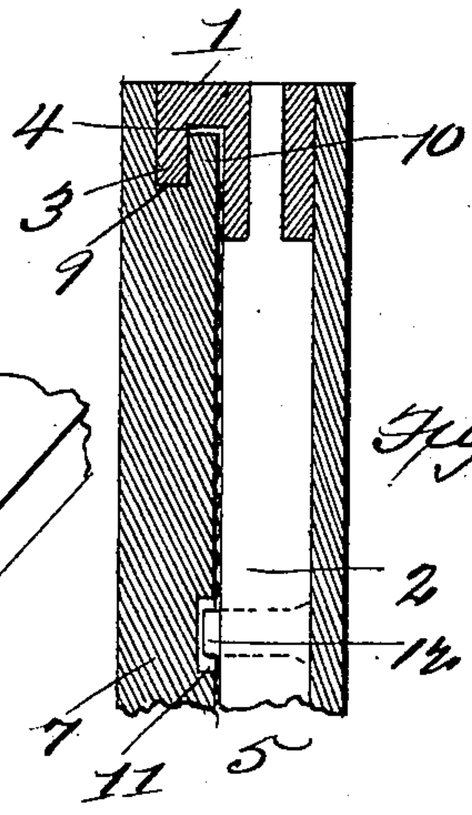


Fig. 5.



WITNESSES-

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UNITED STATES PATENT OFFICE.

WILLIAM J. GREENMAN, OF CORTLAND, NEW YORK.

ADJUSTABLE WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 565,266, dated August 4, 1896.

Application filed January 4, 1896. Serial No. 574,356. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. GREENMAN, a citizen of the United States, residing at Cortland, in the county of Cortland and State of New York, have invented certain new and useful Improvements in Adjustable Window-Screens; and I do hereby 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.

The invention relates to certain improvements in that class of window-screens which are capable of being adjusted to the varying width of window-frames; and it consists in providing the ends of the screen with spring-pressed hollow end panels which are adapted to slide on the top and bottom rails of the screen, as will be hereinafter more fully explained, and specifically set forth in the claim.

The principal object of the invention is to produce a window-screen of the character described that shall be simple and inexpensive to construct and whose lengthwise adjustment may be easily and quickly effected. This object is accomplished by means of the device illustrated in the accompanying drawings, in which—

Figure 1 is a front view of my improved screen, showing the face-piece of one of the end panels removed and the contracted position of the panel in dotted lines; Fig. 2, a side edge view; Fig. 3, an enlarged view of one of the ends of Fig. 2; Fig. 4, an enlarged perspective view of one of the corners of the screen-frame and an end of one of the back-pieces detached, and Fig. 5 an enlarged sectional view on line 5 5 of Fig. 1.

Referring specifically to the several views, the screen-frame is shown composed of the top and bottom rails 1 and the end rails 2. These rails are preferably made of wood, the end rails being flat on both sides and the top and bottom rails being flat on one side and provided on the other side with a guide-rail 3, which forms a groove 4, for the purpose hereinafter explained. The frame is joined together in any well-known manner, preferably tongue and groove, as shown in the drawings, and the wire cloth or netting is preferably secured to the frame on its back or rear side.

The numeral 5 indicates a hollow end panel which is arranged at each end of the screen-frame, and is composed of a face-piece 6, a back-piece 7, and a filling-strip 8. The end edges of the back-pieces are provided with grooves 9, the inner walls of which are somewhat shorter than the outer walls to form tongues 10, which are received in the grooves 4 of the top and bottom rails, respectively, (more clearly shown in Fig. 5,) so that the end panels may freely slide upon the guide-rails 3 and be guided in a direct line in their adjustable movements on said top and bottom rails. The inner side of each back-piece, near its ends, is provided with a transverse groove 11, closed at both ends, as shown in Fig. 1, but more clearly in Fig. 4. Secured to or in the end rails of the screen-frame are pins 12, which enter the grooves 11 and serve as stops to limit the inward and outward movement of the end panels.

The numeral 13 indicates a bow-spring which is situated in each hollow end panel and serves to keep said panels pressed outward. These springs have a central bearing in a groove 14, made in the outer edge of the end rails, and a bearing at each end in a groove 15, made in the inner edge of the filling-strip. The springs are confined in their central bearings by means of pins 16, which pass through the end rails, as shown in dotted lines in Fig. 1.

Each of the face-pieces of the panels is provided with a depressed finger-pull 17, by means of which the end panels may be contracted when it is desired to fit the screen to a window.

The guide-rails of the top and bottom rails and the grooved and tongued end edges and closed grooves of the back-pieces of the panels can be quickly formed by machinery, and the various parts can be readily put together, so that a screen, easily and quickly adjusted to the varying width of window-frames, is produced at a very slight cost.

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

An adjustable window-screen, having its

top and bottom rails provided with guide-rails and grooves, in combination with a hollow end panel composed of a face-piece, a back-piece and a filling-strip, said back-piece having its end edges grooved to receive the said guide-rails and formed with tongues to enter the said grooves, a bow-spring having a central bearing in the outer edge of the end piece of the screen-frame and end bearings in the inner edge of the filling-strip, and stops to limit the extensible and contracting movement of said end panel.

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

WILLIAM J. GREENMAN.

Witnesses:

JOHN W. SUGGETT,

WM. KENNEDY.