

(No Model.)

W. W. ROBINSON.

WINDOW SCREEN.

No. 346,949.

Patented Aug. 10, 1886.

Fig. 1.

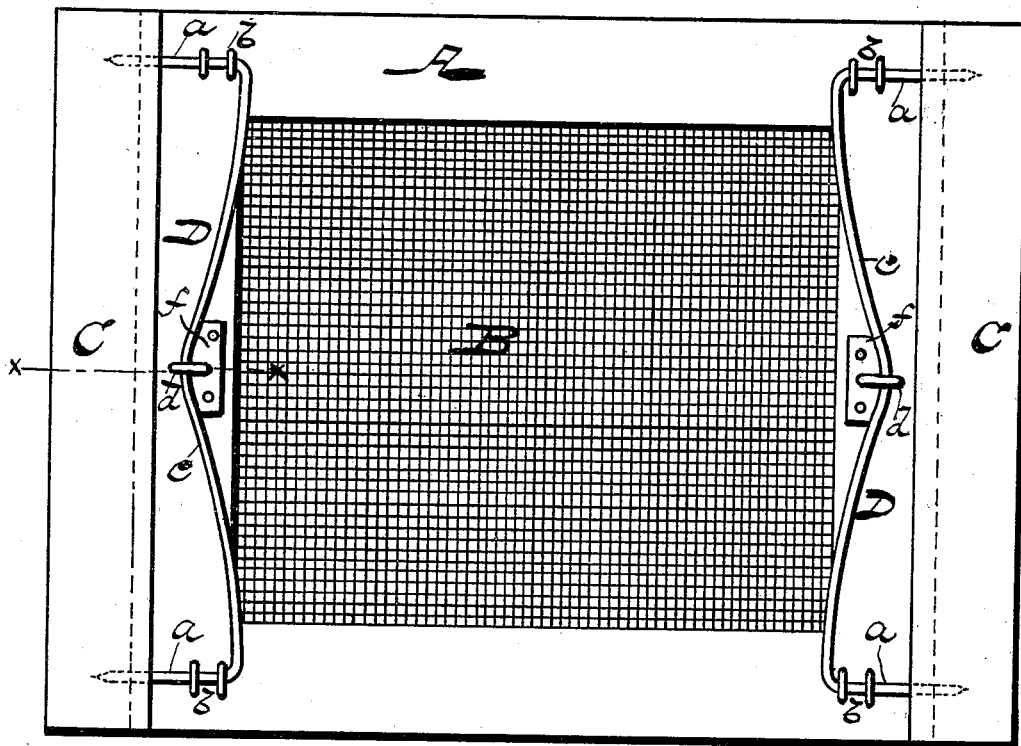
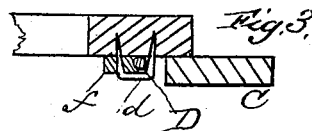
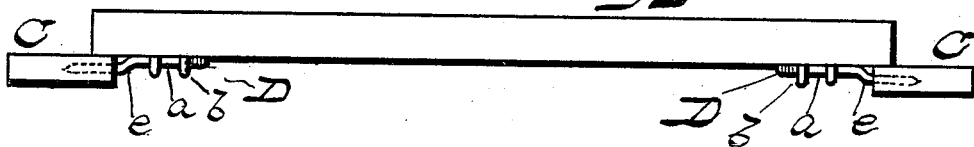


Fig. 2.



WITNESSES

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WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 346,949, dated August 10, 1886.

Application filed March 27, 1886. Serial No. 196,776. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. ROBINSON, a citizen of the United States, residing at Ripon, in the county of Fond du Lac, State of Wisconsin, have invented certain new and useful Improvements in Window-Screens, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in window-screens; and it consists in the construction and novel arrangement of devices, whereby the screen is designed to accommodate itself to different widths of windows, all as will be hereinafter fully explained, and particularly pointed out in the appended claims.

The annexed drawings, to which reference is made, fully illustrate my invention, in which Figure 1 represents a front view of my device, and Fig. 2 is an edge view of the same. Fig. 3 is a horizontal section taken on line *x x*, Fig. 1.

Referring by letter to the accompanying drawings, A designates the frame of the screen, and B indicates the gauze, which may be secured to said frame in any suitable manner.

C C represent adjustable end extensions, which slide laterally upon the face of the end bars of the frame. These sliding extensions are connected to the frame by a spring-wire, D, consisting of the upper and lower arms, *a a*, the ends of which are secured to the strip or extension, and the vertical body portion, which serves as a spring to force the extensions outwardly against a window-casing when the screen is in position beneath the sash, thus closing a space between the screen and casing, and preventing entrance to the room by insects, &c. The horizontal arms *a a* are held to the frame by staples *b b*, which latter also serve to guide the arms in their lateral movement, and the vertical spring portion *c*, near its center, is also held to the frame by a staple, *d*, and curved block *f*, which latter receives the pressure of the spring portion, thus forcing said extensions outwardly. The ends of the arms *a a* are bent, as at *e*, in order to per-

mit the body portion and said arm to lie close to the frame and prevent a space between said frame and extensions.

It will be seen that the operating-spring and horizontal arms *a a* are formed of a single piece of spring-wire, and the vertical or spring portion is connected at its center to the frame, thus presenting an equal tension to both ends of the extension.

It will be observed that each spring D is provided with pointed or spiked ends *a a* and an intermediate double-bow-shaped springy portion, at the center of which it is secured to the face of frame A by a staple, *d*, one limb of which is driven directly into the frame, and the other limb is driven through a back bearing-block, *f*, which is curved longitudinally to conform to the shape of the said double bow at its reverse curve, and it is also grooved, as shown in Fig. 3, to form a deep seat for the round-wire spring D. A very light, cheap, and efficient fastening is thus made, which may be sold without the frame A and strips C and applied to these parts by any unskilled person.

The bends at *ee* (shown in Fig. 2) are an important element of the invention for the reason above stated.

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

1. The screen-spring described, consisting of the reversed bowed body *c*, terminating in curves *ee* and pointed ends *a a*, in combination with curved and grooved bearing-block *f* and staple-fastenings, as specified.

2. The combination, with the screen-frame A and the adjustable face-piece C, of the reversed bowed spring D, having pointed ends driven into said pieces C, the curved and grooved bearing-block *f*, and the staple-fastenings, as described and shown.

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

WILLIAM W. ROBINSON.

Witnesses:

FREDERICK SPRATT,
H. H. MEAD.