

J. HANCOCK, Jr.
Window-Screens.

No. 148,559.

Patented March 17, 1874.

Fig. 1.

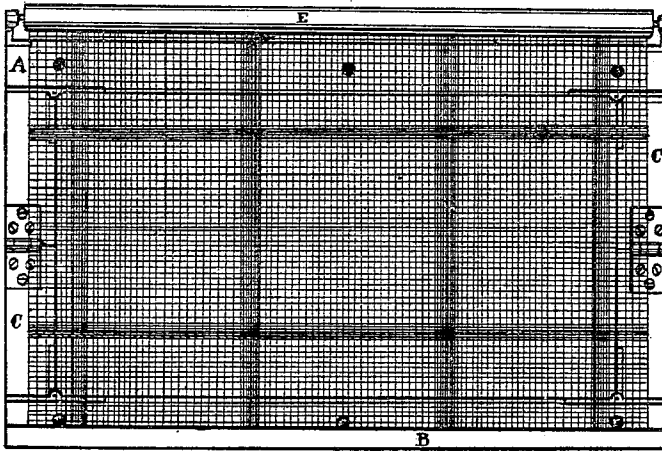


Fig. 4.

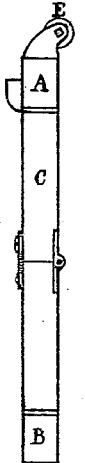


Fig. 2.

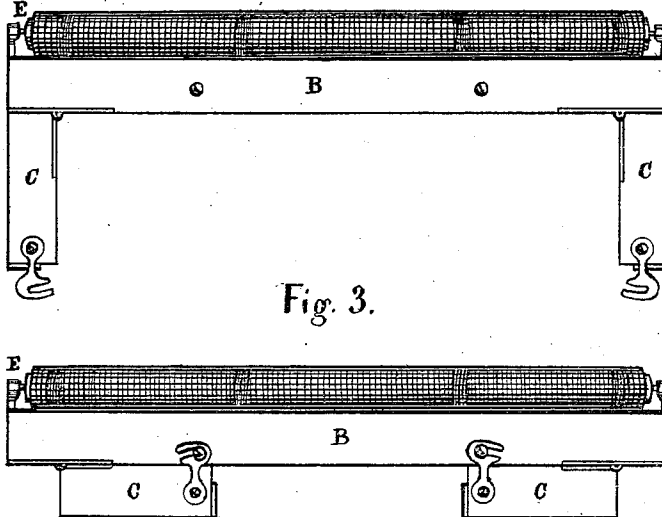
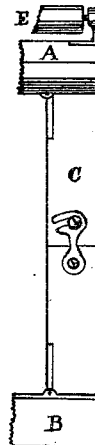


Fig. 3.

Fig. 5.



WITNESSES.

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JOHN HANCOCK, JR., OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN WINDOW-SCREENS.

Specification forming part of Letters Patent No. 148,559, dated March 17, 1874; application filed October 20, 1873.

To all whom it may concern:

Be it known that I, JOHN HANCOCK, JR., of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Window-Screens; and I do hereby declare the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 represents the front view, showing the screen extended as in use. Fig. 2 shows the frame partially closed, with the netting or cloth rolled up; and Fig. 3 is the same when closed. Figs. 4 and 5 represent sectional end views.

My invention consists in constructing the frame of a window-screen with hinges, and so arranged, in combination with such hinges, to be held firm and stiff when extended for use, and compact when closed, the roller being attached upon its surface, and provided with a spiral spring for rolling up the netting or cloth.

Whereas, Letters Patent No. 112,590, dated March 14, 1873, were granted to me for a similar purpose; the frame being so arranged, in combination with the hinges, and the sides so constructed as to operate outward, in closing the same, to make it compact; the width being increased in proportion as the height is decreased; and in hollowing out the upper side for the insertion of the roller, it makes said side weaker, and difficult to form a durable connection with the hinges: The object of my present invention is to overcome these difficulties, which I will endeavor to describe, to enable others skilled in the art to manufacture and use the same.

In the drawings, similar letters of reference indicate corresponding parts.

A represents the top of the screen-frame; B, the bottom, and C C the two sides. They are connected together at each end by a hinge to operate inward in closing, and the sides C C each are divided into two equal parts, and provided with a hinge at their front, as repre-

sented in Fig. 1, these hinges being so applied to operate at right angles with the corner hinges, and, when open, they hold said corner hinges from swinging, or the frame from swaying. The top A is furnished with a roller, E, upon its upper surface, which roller is adjusted a suitable distance from said top, to form a space for the netting or cloth to pass between in rolling up, and a strip of wood the proper thickness is fastened on the back of top A, so as to project out from said top, as represented in Fig. 4, for the window to rest upon in holding the screen in use. On the back of the sides C C a hook is arranged, as represented in Fig. 5, for the purpose of holding the said sides stiff, and preventing the front hinges from closing when the frame is extended, as in Fig. 1, and to fasten or hold the frame from opening when closed, as represented in Fig. 3. At one end of roller E a hole is made, running lengthwise, and a spiral spring inserted, for operating the said roller in rolling the netting or cloth, and in holding the same stretched or tight when in use. The lower edge of said netting or cloth may be retained or held, when desired, on the small knobs or pins arranged on the bottom B of the screen-frame for that purpose.

To open the screen-frame, the end hinges should be operated first to bring the sides C C at right angles with the top A and bottom B, in order to have the side hinges in position to be opened, and operated in the reverse to close the same.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination of the screen-frame or the top A, bottom B, and sides C C with the hinges at right angles, and with the spring-roller E, all arranged and operated as herein described, and for the purpose specified.

JOHN HANCOCK, JR.

Witnesses:

CHAS. L. SPENCER,
JOHN D. THURSTON.