(No Model.)

F. ISARD & W. S. LEITER.

WINDOW SCREEN.

No. 272,884. Patented Feb. 27, 1883.

Fig. 1.

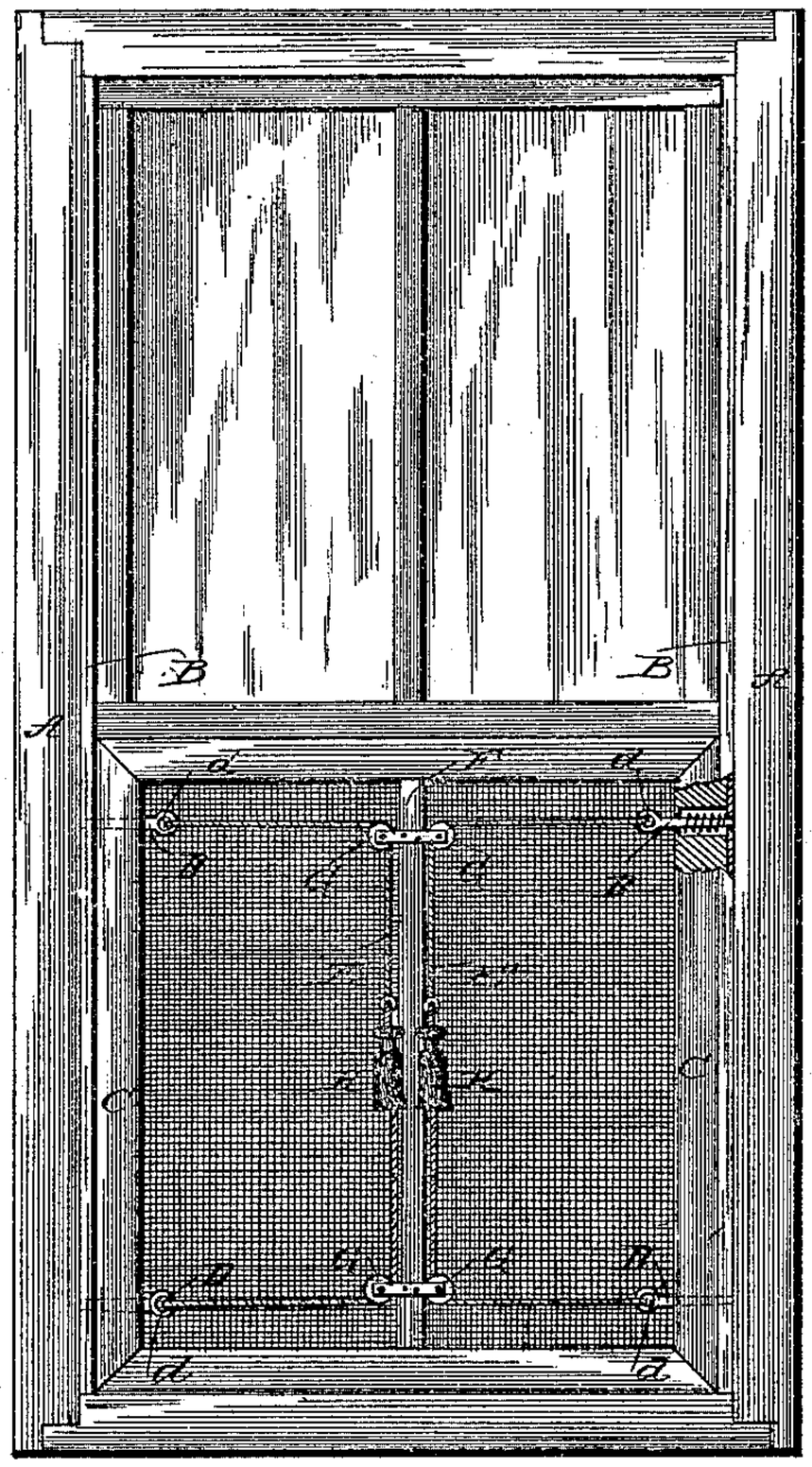


Fig. 2.

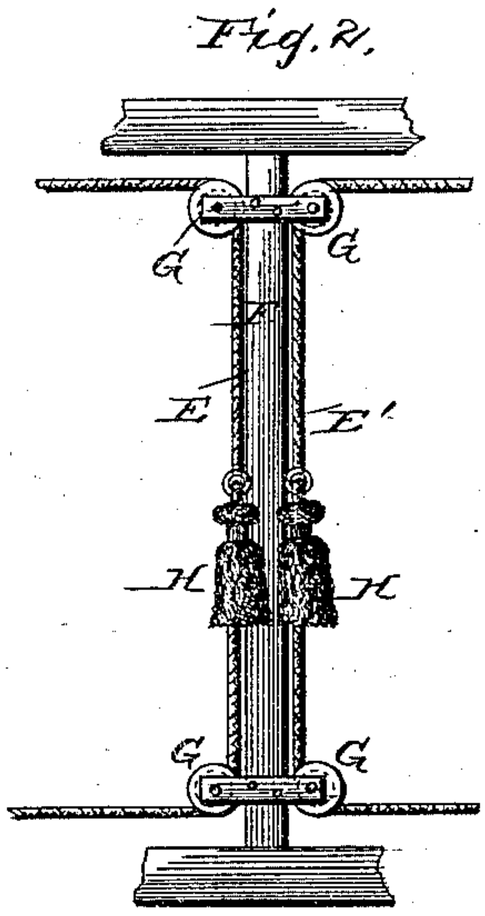
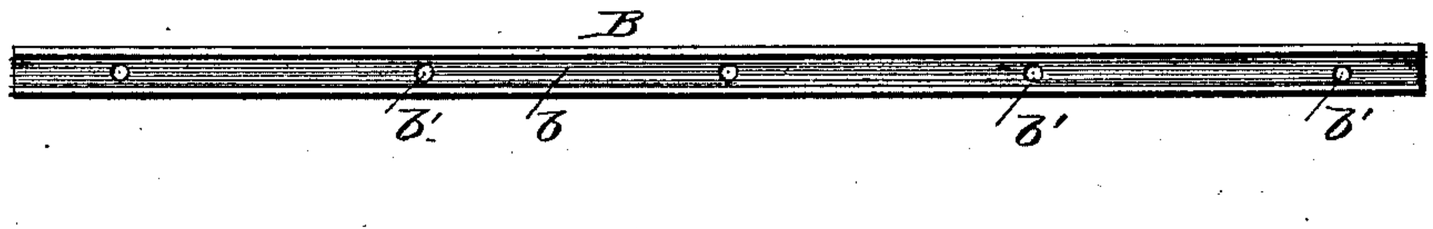


Fig. 3.



WITNESSES:

Fred. L. Dieterich.

Jno. W. Stockett.

Franklin Isard
Winfield S. Leiter
INVENTORS
per Pennebaker, Simpson & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANKLIN ISARD AND WINFIELD S. LEITER, OF SEWARD, NEBRASKA; SAID ISARD ASSIGNOR TO SAID LEITER.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 272,884, dated February 27, 1883.

Application filed August 5, 1882. (No model.)

To all whom it may concern:

Be it known that we, FRANKLIN ISARD and WINFIELD S. LEITER, citizens of the United States, residing at Seward, in the county of Seward and State of Nebraska, and doing business in said county and State under the firm-name of ISARD & LEITER, have invented a new and useful Window-Screen, of which the following is a specification.

Our invention relates to improvements in the apparatus by which window-screens are adjusted and locked at different heights in the window-frame and removed from said frame at pleasure.

The object of our invention is to construct a screen with its appliances, which shall be easy of adjustment and removal, simple in construction, and little liable to fall out of repair. We attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a front elevation of our improved screen in position for use, the screen-frame and window-frame strip broken away at one point to allow the bolt and its spring to be seen. Fig. 2 represents an enlarged view of the middle brace of the screen, showing the arrangement of the pulleys and cords; and Fig. 3 is a front view of the window-stop strip, showing the grooves and perforations in which the spring-bolts work.

Similar letters of reference indicate corresponding parts throughout the drawings.

Attached to the jambs of the window-frame A are the strips B, of wood. Said strips are provided with longitudinal grooves or slots *b* and perforations *b'*. The sides C of the screen slide vertically on said strips, and the spring-bolts D, mortised in said sides C, work in the grooves *b* and engage in the perforations *b'*. Said spring-bolts are mortised in the ordinary manner, and are provided on their inner extremities with rings *d* or their equivalent, to which are attached the ends of the cords E E'. Said cords pass inwardly toward the middle brace, F, of the screen, to which the pulleys G are attached, and around which the cords pass and are joined. The cords E are connected and held by a handle, H, upon one side the middle brace, and the cords E' are similarly connected and held on the other side of said brace.

The operation of the screen is as follows: The stop-strips B are first secured within the jambs of the window in such manner that the grooves *b* shall lie opposite and parallel to each other, and the opposite perforations, *b'*, be in the same horizontal planes. The spring-bolts of the screen having then been drawn in by pulling upon the handles H, the screen is placed in such position that the sides C may slide upon the strips B and the ends of the bolts rest in the grooves *b*. The bolts are then sprung by releasing the handles, and the screen is held in position by the outward pressure of said bolts. The screen may then be slid up or down the strips B until the ends of the bolts come opposite to the perforations *b'*, when their springs cause them to enter said perforations, and thereby lock the screen in place. To remove the screen it is only necessary to draw upon one of the handles H, when both bolts will be withdrawn from one of the sides, and that side may be pushed or drawn outward from the stop-strip and the whole removed. To raise or lower the screen the bolts are partially drawn back, and the screen will then slide upward or downward and be held in place by the sides of the grooves *b*.

It will be seen that by our improved manner of working the screen great facility is acquired in adjusting or removing the same; that said screen is automatically locked in position, and that the whole mechanism is cheap, effective, and little liable to fall out of repair.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, with the grooved side strips and the screen, of the upper and lower side spring-bolts, D, cords E E', handles H, and pulleys G, substantially as described, whereby the screen is adapted to slide in the grooves of the side strips, and whereby either end or the whole of the screen may be withdrawn from the window-frame for the purposes set forth.

FRANKLIN ISARD.
WINFIELD S. LEITER.

Witnesses:
WM. LEESE,
H. P. LEWIS.