

(No Model.)

E. LOUDERBACK.
WINDOW SCREEN.

No. 334,876.

Patented Jan. 26, 1886.

Fig. 1.

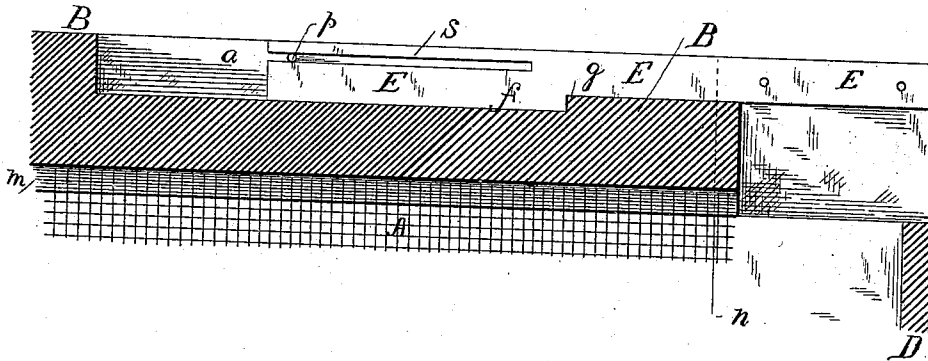


Fig. 2.

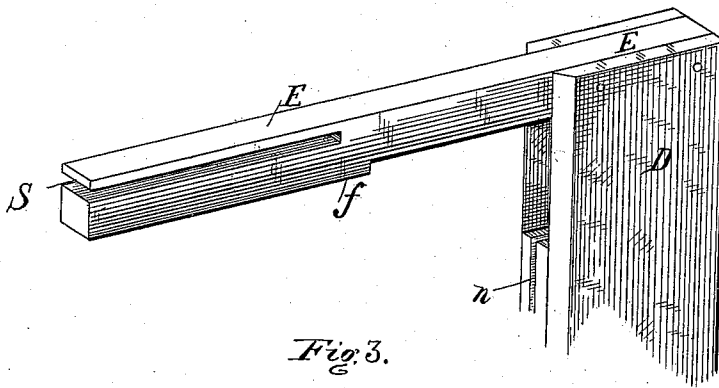
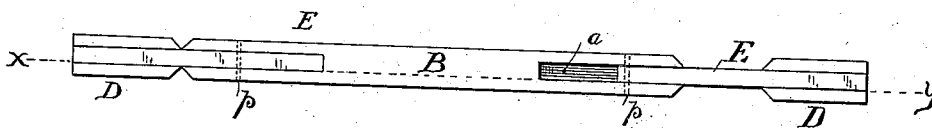


Fig. 3.



WITNESSES:

John Nolan,
John W. Orr.

INVENTOR

Edwin Louderback,
per Joshua Pusey, att'y.

UNITED STATES PATENT OFFICE.

EDWIN LOUDERBACK, OF PHILADELPHIA, PENNSYLVANIA.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 334,876, dated January 26, 1886.

Application filed August 21, 1885. Serial No. 174, 941. (No model.)

To all whom it may concern:

Be it known that I, EDWIN LOUDERBACK, a citizen of the United States, residing at the city and county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Window-Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention is an improvement upon the adjustable window - screen shown and described in Letters Patent of the United States No. 269,075, granted to Edwin L. Lloyd, assignor to myself, December 12, 1882.

Its object is to improve and cheapen the construction of a certain part of said window-screen—to wit., the sliding strips (marked E) in the drawings of said patent, which are attached to the tops and bottoms of the two end bars, D, of the screen.

The precise nature of the improvement will be clearly understood from the following description, reference being had to the annexed drawings, of which—

Figure 1 is a side view, partly in section, as on line *xy*, Fig. 3, of a portion of a window-screen in which my present invention is embodied. Fig. 2 is a perspective view of one of the end bars and slotted sliding strip attached thereto. Fig. 3 is a plan view of the screen, one of the side bars being extended, the other closed up.

A marks the gauze part of the screen, B the top rail, and D the end bars. The upper edge of the gauze is contained within a vertical slot, *m*, Fig. 1, in rail B, and each end bar, D, is provided with a slot, *n*, Figs. 1 and 2, which receives the lateral edge of the gauze.

At the top of bar D is secured a strip, E, which projects inward beyond the bar, and is adapted to slide in a recess, *a*, in the upper edge of top rail, B. The recess *a* is deepened at its inner end for the reception of a lug or projection, *f*, on the under side or forming a part of strip E, which works in said recess, a shoulder, *g*, being thus formed, which, by contact with lug *f*, acts as a stop to limit the extent to which the side bar, D, may be drawn out, so that the latter cannot pass beyond the edge of the fixed gauze sheet A.

In the screen shown and described in the

aforesaid Letters Patent No. 269,075 there is employed what is termed a "tongue," *b*, whose function is to guide the strip E. It has been customary to glue this tongue in place, and also to further secure it by means of brads driven into the tongue through the side of the recess *a*; but I have found this plan to be objectionable, owing, in the first place, to the cost, and, secondly, in that the brads were apt to split the top rail (as it was necessary to drive them close to the upper edge of the same,) and when it became wet the glue would lose its hold and the said tongue become forced out of place. In order to obviate these defects, I do away with this tongue, and cut in the inner end of strip E a long horizontal slot, *s*, at any suitable distance below the top of the strip, and in connection therewith I employ a pin, *p*, which I drive through the sides of recess *a* in the top rail in line with said slot *s*. This pin is so located as to remain in the slot whether the side bar, D, be more or less extended, thus always serving to prevent the strip E from vertical displacement.

It will be understood that the two sides of the screen, both at top and bottom, are constructed in the same manner as hereinbefore described.

The general construction and operation of the screen, except as hereinbefore specified, and as set forth in the claim hereinafter made, are identical with that shown and described in said Letters Patent No. 269,075, to which reference may be had.

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

The combination of the sliding end bar, the rail B, having the recess *a*, with shoulder *g*, the sliding strip E, attached to said end bar and provided with the stop or projection *f*, and the slot *s*, together with the pin entering said slot, all constructed and adapted to operate substantially as and for the purpose stated.

In testimony whereof I have hereunto affixed my signature this 12th day of August, A. D. 1885.

EDWIN LOUDERBACK.

Witnesses:

JNO. NOLAN,
JAMES S. PHILLIPS.