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DANIEL N. HURLBUT, OF CHICAGO, ILLINOIS.

Letters Patent No. 90,845, dated June 1, 1869.

IMPROVED ADJUSTABLE WINDOW-SCREEN.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, DANIEL N. HURLBUT, of Chicago, in the county of Cook, and State of Illinois, have invented a new and useful Improvement in Adjustable Window-Screens; and I do hereby declare and make known that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

My said invention relates to that class of window-screens which is constructed of two separate frames, suitably covered, arranged side by side, and having a sliding movement upon each, so as to cause the window-screen to shorten or lengthen, and thus adapt the same to different windows of different widths, which sections or frames are connected by means of a cord and spring, in such a manner as to press the ends of the screen against the sides of the window-frames, and thus cause the screens to remain in any desired position, either at the top or bottom, or at any intermediate point, as preferred.

My said invention consists in the employment of bars at that part of the screen where each section of the frame overlaps the other, to hold the wire or gauze of each screen close up against the end of the frame of the other section, so as effectually to prevent the wind from blowing the gauze, or wire back, to leave a space through which insects might enter.

To enable those skilled in the art to understand how to construct and use my said invention, I will proceed to describe the same with particularity, making reference, in so doing, to the aforesaid drawings, in which—

Figure 1 represents a front view of my improvement in use;

Figure 2 is a vertical transverse section, taken at *x* in fig. 1, looking to the right;

Figure 3 is a similar section, at *y*, in fig. 1, looking to the left; and

Figure 4 is a top view of the adjustable screen.

Similar letters of reference in the several figures denote the same parts of my said invention.

A and B represent the frames, on which wire or gauze screen-cloth C is fastened.

These frames are made so that they slide past each other, so that they can be adapted to windows of different widths, and it is accomplished by attaching to the top and bottom of the frame B, metallic strips D, which extend out sufficiently far for the edges thereof, which are turned at right angles, as shown in figs. 2 and 3, to embrace the edges of the frame A.

The frame A will slide back and forth between the plates D, and thus adapt the screen to windows of different widths.

E represents an elastic cord, or band, one end of which is attached to the frame B, as shown in fig. 1, while the other end is attached to the frame A, in

such a manner as to constantly press said frames against the window-casings F, and hold the screen in place, at whatever part of the window it is placed.

But it will be observed, that as the screens have been heretofore made, there is a space between the end-piece H of the frame B, and the wire, or gauze on the frame A. To fill that space, I attach a strip, I, to said end-piece, in such a manner as to fill the space.

There is also in other screens more or less space between the wire, or gauze, on the frame B, and the end-piece J of the frame A. To close that space and make the screen tight, so that no insects can pass through it, I place a cross-piece, K, across the frame B, in such a manner that it keeps the wire, or gauze on the frame B pressed against the end-piece J of the frame A.

As the end-piece J would not always be in the same position relative to the frame B, on account of the screen being placed in windows of different widths, the cross-piece K is adjustable, so that it can be moved to different parts of the frame B. The cross-piece K may be made of any suitable material that would serve the purpose of keeping the wire, or gauze pressed against the end-piece of the frame A, as above described.

I also put pins, or movable bolts O in those parts of the frames A and B that are pressed against the window-frame; and I also use set-screws P, which pass through one frame and set against the other, to hold the frames in place when they are set in a window, and the pins, or bolts O pressed into the frame, or casing thereof.

The pins O and set-screws P take the place of the spring E now in use, to fasten the screen more permanently into the window, so that it cannot be pushed out by children, and, besides, it obviates the objections to springs on account of their liability to become weak and useless after they have been used awhile.

Claims.

Having thus fully described the construction and operation of my invention,

What I claim, and desire to secure by Letters Patent, is—

1. The combination of the cross-piece K with the frames A and B, when arranged and operating in a window-screen, substantially as and for the purposes described.

2. The combination of the pins O and set-screws P and cross-piece I, when arranged in a window-screen, substantially as and for the purposes set forth.

DANIEL N. HURLBUT.

Witnesses:

L. L. COBURN,
J. L. COBURN.