J. H. KESSLER.
EXTENSION WINDOW SCREEN.
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Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

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Fig. 26

Fig. 27

Fig. 28

Fig. 29

Fig. 30

INVENTOR.

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JOHN H. KESSLER, OF BINGHAMTON, NEW YORK.

EXTENSION WINDOW-SCREEN.


To all whom it may concern:

Be it known that I, JOHN H. KESSLER, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Extension Window-Screens, of which the following is a specification.

My invention relates to improvements in extension window screens, and to that class capable of being adjusted to the varying widths of window frames, and more particularly the class formed of 2 separate frames, and having adjustable parts, and one or both ends of the screen being provided with spring pressed hollow end panels, adapted to slide on the top and bottom rails of the screen frame, and the frames themselves having a graduated means of approximate adjustment before entering the window frame. One of the objects of my invention is to provide an extensible screen that is compact, simple and convenient in operation, which may be readily placed in position and which, after adjustment will automatically expand to nicely fit in the window frame. With these objects in view, my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter fully described and pointed out in the claims—reference being had to the accompanying drawings in which—Figure 1 is a side view, partly in cross section of my device. Fig. 2, is a horizontal section of my device. Fig. 3 is a plan view in cross section of a fragmentary part of my device. Fig. 4 is a perspective view of part of my device. Fig. 5 is a perspective view of a modified form of part of my device. Fig. 6 is a plan view of a blank of part of my device. Fig. 7 is a plan view of a blank of part of my device. Fig. 8 is a plan view of a blank of part of my device. Fig. 9 is a side view, partly in cross section of a modified form of my device. The same reference characters denote like parts in each of the several figures of the drawings. In carrying out my invention, my screen device is applied more particularly to screens composed of 2 separate frames—and I provide the frames A and B, each having top and bottom bars a and a', and b and b' respectively and the outer end bars c and d respectively; and the inner cross bars e and f respectively; on the outer ends of frames A and B, are the box like slideable panels C and D. In the frames A and B is stretched the wire cloth A', fastened in any approved way; each end panel is formed from the metal blank B, and consists of the side portions 2, 2 and the end portion 3 and the side tongue projections 4, 4 and the top and bottom tongue projections 5, 5 as shown in Fig. 7, which when shaped in box like formation, produces the panel with parallel sides 2, 2 and end 3, and having an open side adapted to receive the end bars of the screen frames; previous to this mounting and fastening the panel to the frame, I place within the panel the bow spring F which is compressed by the inward adjustment of the panel upon the frame. As my invention is specially applicable to the usual form of screens consisting of two frames, as a special feature of it, in the upper edge of frame A and B, I let in a series of notches or recesses 6, 6, 6, the recesses in each frame adapted to be positioned opposite each other in the adjustment of frames A and B. For the purpose of holding at any given point, in sliding adjustment of the frames A and B, I mount upon the upper edges of the frames, the clamp G having the interior and downward projecting tongue g adapted to enter the recesses 6, 6, 6, and I thus hold the frames A and B firmly in a given adjusted position with each other.

Or I may have clamp G with a downward projecting clamp g at each end as shown in Fig. 4. In a modified form of my invention I may have screen H composed of one frame, having the top and bottom bars a and a' and the end bars c and d and the end panels C and D with springs F, F mounted thereon as before. In the side 2 of spring panels C and D, I have the finger openings 7, 7, for the purpose of manipulating the panels. In the operation of my device, I first place in approximate adjustment to the width of the window, by sliding the frames A and B past each other, until the entire frame with panels, measures the width of the window. Then I mount clamp G over the frames A and B and insert tongue g in the aligned recesses 6, 6; this holds the screen extension firmly to the adjustable length, I then draw back the panels until the screen can be placed within the sash channels of the window and release the panels, and springs F, F automatically move the panels into place. To release the screen I again
draw inward the spring panels, shortening the screen, and thus remove it from the window.

Having thus described my invention, what I claim as new and for which I desire Letters Patent, is as follows:

1. In a window screen the combination of two sliding screen frames having on their upper edges series of recesses adapted to be placed in alinement with each other, and a clamp placed over said frames and having a downwardly projecting member adapted to enter the alined recesses.

2. In a window screen the combination of a plurality of screen sections having on their upper edges a series of recesses adapted to be brought in alinement with each other, and a U-shaped clamping member engaging the frames and provided with a downwardly projecting lug for entering the alined recesses of the sections.

4. In a window screen, the combination of two relatively sliding overlapping screen frames, spring projected panels at the outer ends of the frames, a series of recesses along the upper and lower sides of the frames, the recesses of one frame adapted to be brought into alinement with the recesses of the other frame and clamping members engaging the frames and provided with lugs for entering the alined recesses of the frames.

In testimony whereof I have affixed my signature in the presence of two witnesses.

JOHN H. KESSLER.

Witnesses:

ELIZ. J. BURNS,

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