

J. SHANKEY.  
ADJUSTABLE WINDOW SCREEN.

No. 538,540.

Patented Apr. 30, 1895.

Fig. I.

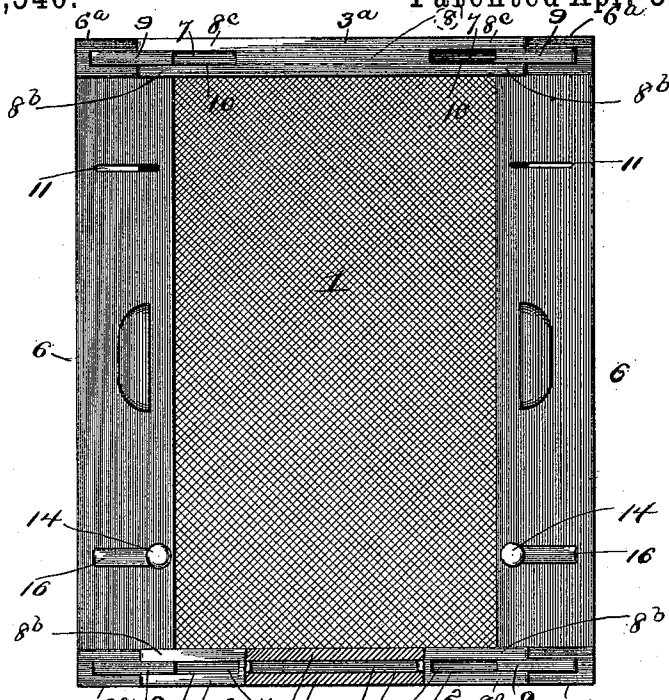
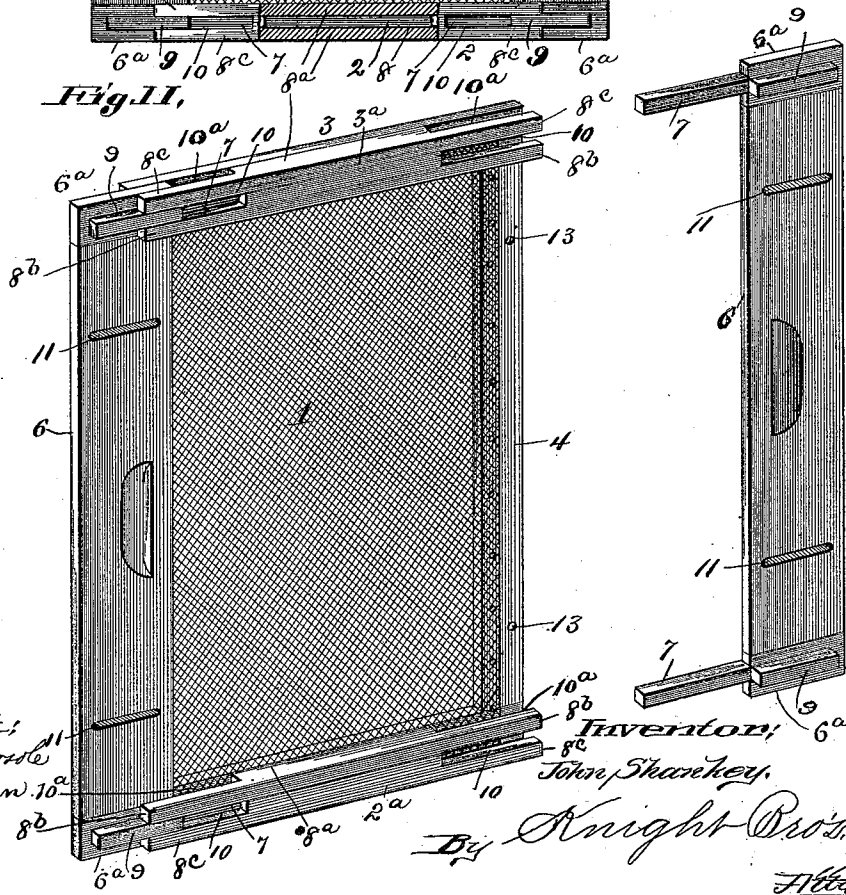


Fig. II.



Attest;  
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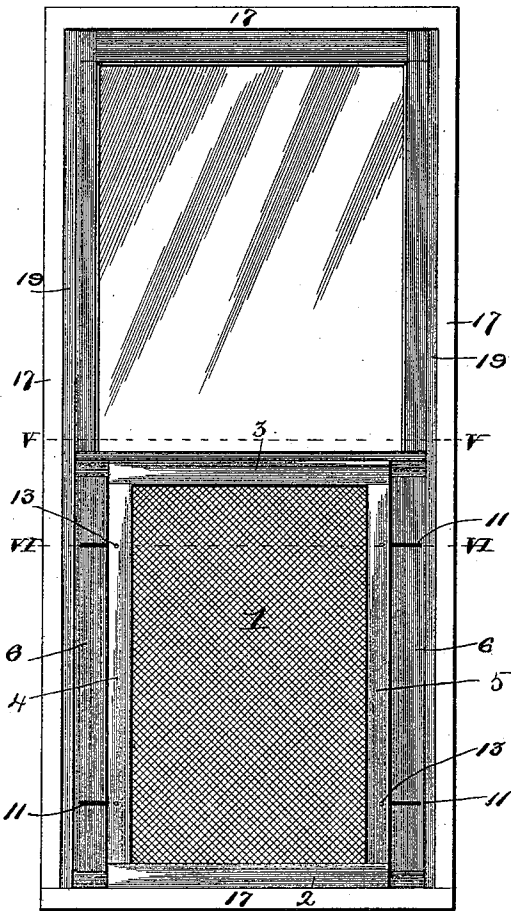
By Knight Bros.  
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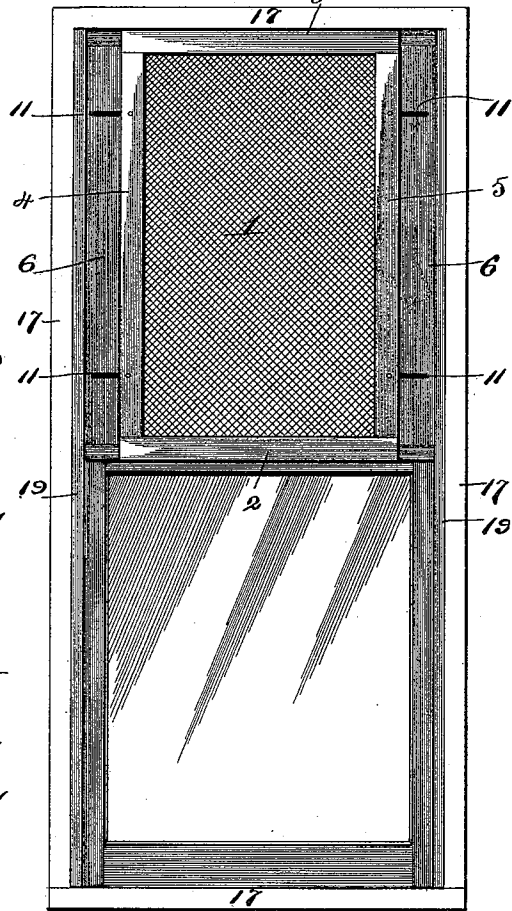
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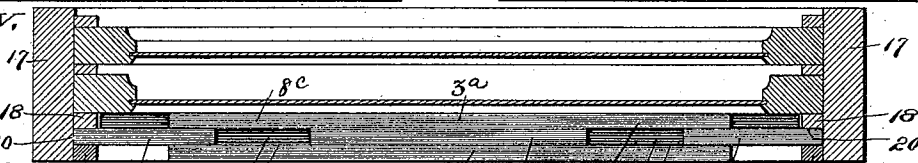
*Fig. III.*



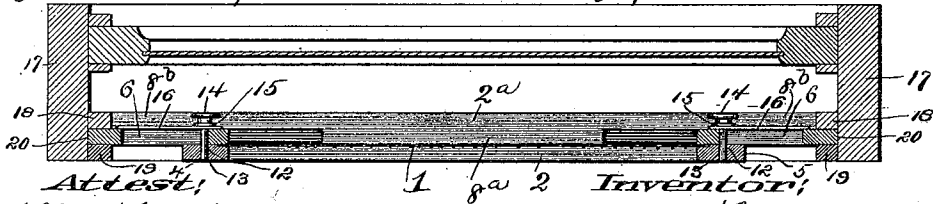
*Fig. IV.*



*Fig. V.*



*Fig. VI.*



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# UNITED STATES PATENT OFFICE.

JOHN SHANKEY, OF ST. LOUIS, MISSOURI.

## ADJUSTABLE WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 538,540, dated April 30, 1895.

Application filed November 8, 1892. Serial No. 451,373. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN SHANKEY, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Adjustable Window-Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement relates to that class of invention which has for its object the production of a window screen readily adjusted to windows of varied widths and which with a few sizes meet all requirements necessary to make a complete screen, and which will occupy a space equal to the lower window sash, when the screen is down and when up will occupy a space equal to the space occupied by the upper sash, and will not at any time interfere with the raising and lowering of either of the sashes.

Referring to the drawings, Figure I is a front elevation of a window-screen, from which the lower-facing cross-bar is broken away to more clearly illustrate the construction beneath. Fig. II is a perspective view of the screen, from which one of the adjustable side wings is shown detached. Fig. III is an outside view of the screen in position in a window-frame, the screen being shown in lower closed position. Fig. IV is a similar view showing the screen in raised position. Fig. V is a horizontal transverse section taken above the top of the screen on line V V, Fig. III. Fig. VI is a horizontal transverse section taken through the screen on line VI VI, Fig. III.

Referring to the drawings 1 is a sheet of wire gauze or other screen-material, secured to an outer frame consisting of a bottom strip 2, a top strip 3, and side strips 4 and 5. Secured to the bottom and top strips are two inner strips 2<sup>a</sup> 3<sup>a</sup> each formed with an internal groove 8, providing inwardly projecting flanges 8<sup>a</sup>, and with inner end tongues 8<sup>b</sup> and outer end tongues 8<sup>c</sup> providing slots 10 between them, and slots 10<sup>a</sup> between them and the adjacent strip.

6 represents adjustable side wings having at each end slides 7, which fit and work in internal grooves 8. 9 are bosses or guides on the sides of the adjustable side wings which

fit and work in slots 10. 6<sup>a</sup> are the tongues of the wings fitting in the end slots 10<sup>a</sup>. In the body of the adjustable side wings 6, near their ends are elongated slots 11 through which pass thumb-screws 12 that work in threaded openings 13 in the stiles 4 and 5. The thumb screws 12 have enlarged heads 14 and shoulders 15, such shoulders bearing when tightened, against a plate 16 that covers the elongated openings 11 at the side of the thumb screws 12, and thus prevent ingress of insects through the opening. When the parts are connected, the screws 12 control the movement of the adjustable side wings, and when tightened firmly secure the side wings to the stiles of the screen in any set position, to fit a window frame.

The screen being placed within the window frame 17, the inner face of the adjustable side wings fit between the ordinary guide strip 18 and a strip 19 secured to and extending the entire length of the window frame, the two strips forming a groove 20 in which the screen may be raised or lowered independent of and out of contact with either sash of the window.

The operation of the screen is as follows:—The screen being placed within the window frame, the adjustable side wings are moved outward until their outer edges bear within the groove 20, against the face of the window frame, and the screws 12 are then tightened until the shoulders 15 of the screws coming in contact with the plate 16 clamp or draw the parts together, securing the side wings in a fixed position between the sides of the window frame, and the screen may be moved up and down in the grooves 20 at will, without interfering with the window sashes, or without further adjustment or attention until it may be desired to remove it from the window.

I claim as my invention—

A window-screen comprising the outer frame consisting of the bottom strip 2, the top strip 3, and side strips 4, 5, the sheet secured to the frame, the inner top and bottom strips 2<sup>a</sup>, 3<sup>a</sup>, each formed with an internal groove 8 providing inwardly projecting flanges 8<sup>a</sup>, and with inner end tongues 8<sup>b</sup> and outer end tongues 8<sup>c</sup> providing slots 10 between them and slots 10<sup>a</sup> between them and the adjacent strip, and the adjustable side

wings 6 having upper and lower end slides 7  
fitting the internal grooves, the upper and  
lower end tongues 6<sup>a</sup> fitting the slots between  
the tongues and the adjacent strips, the up-  
5 per and lower guides 9 fitting between the  
tongues, and the upper and lower elongated  
slots 11, the cover plates 16 for the elongated

slots, and the securing thumb screws 12; sub-  
stantially as described.

JOHN SHANKEY.

In presence of—

ALBERT M. EBERSOLE,  
ED. S. KNIGHT.