No. 803,521. PATENTED OCT. 31, 1905.

A. J. BAKER.

ADJUSTABLE ROLLER WINDOW SCREEN.

APPLICATION FILED OCT. 24, 1904.

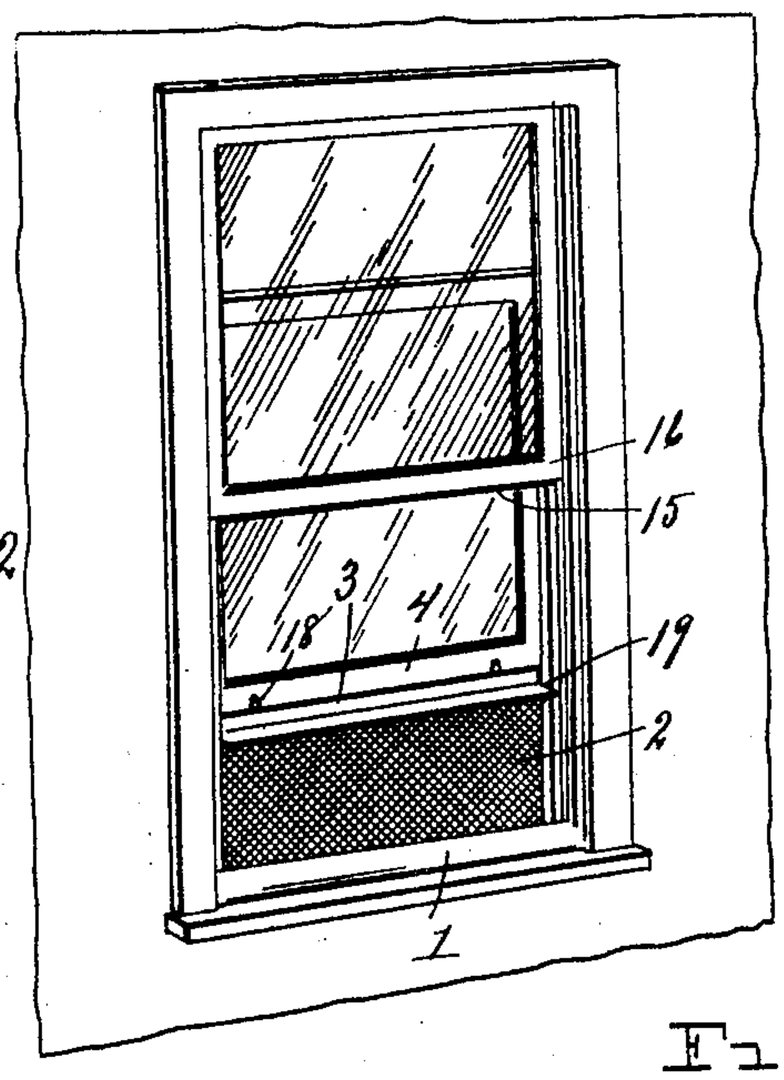

Fig. 1.

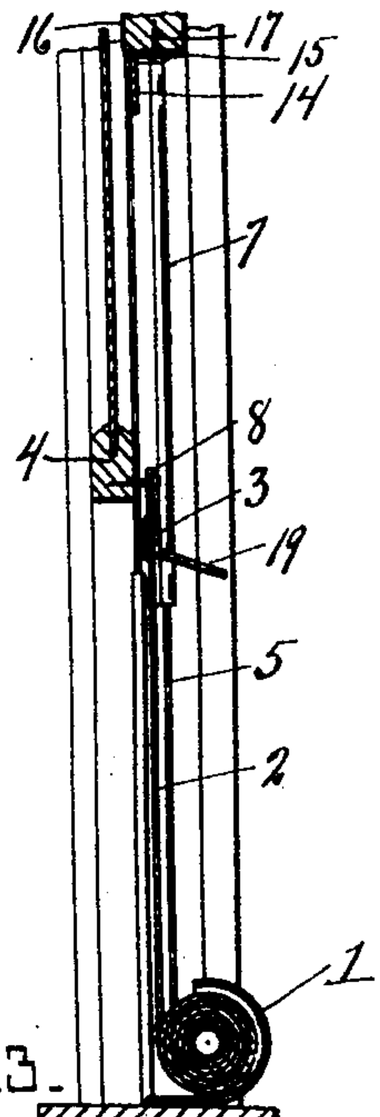

Fig. 3.

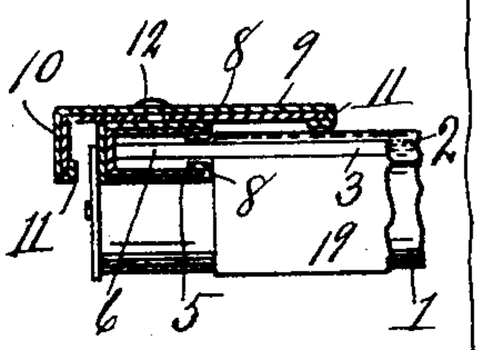

Fig. 5.

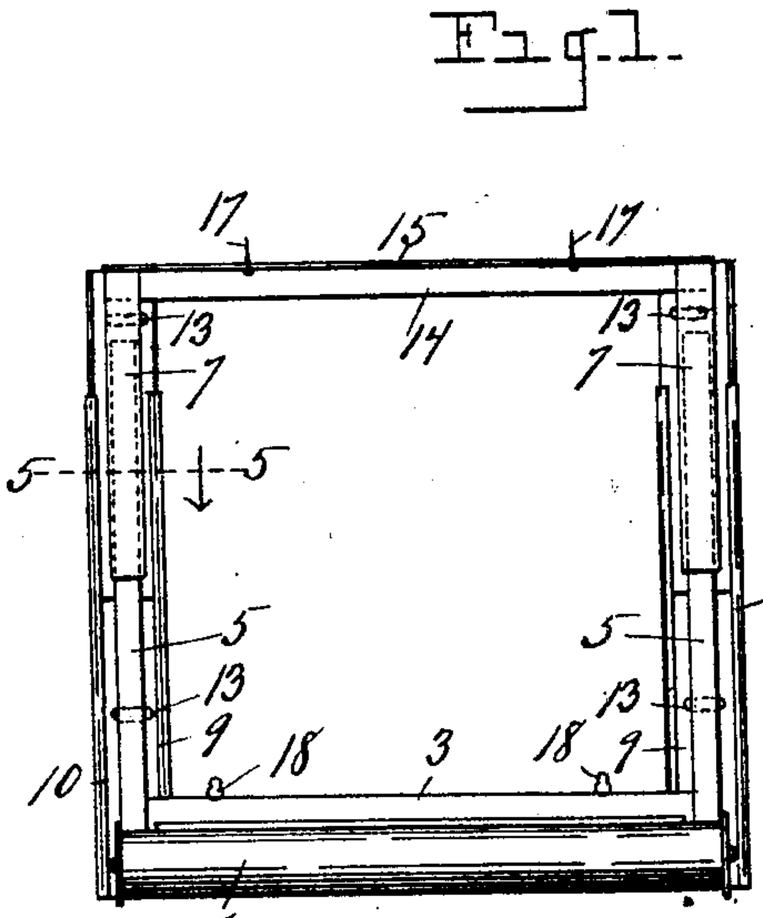

Fig. 2.

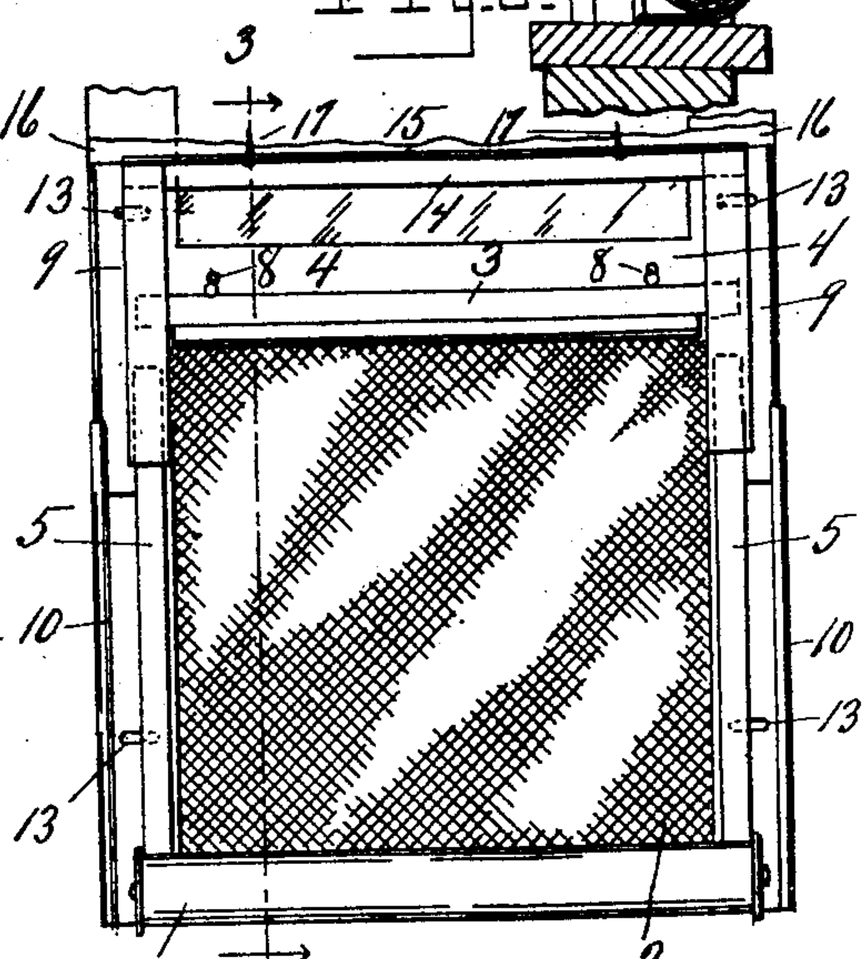

Fig. 4.

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UNITED STATES PATENT OFFICE.

ANDREW J. BAKER, OF ADRIAN, MICHIGAN.

ADJUSTABLE ROLLER WINDOW-SCREEN.

No. 803,521. Specification of Letters Patent. Patented Oct. 31, 1905.

Application filed October 24, 1904. Serial No. 229,684.

To all whom it may concern:

Be it known that I, ANDREW J. BAKER, a citizen of the United States, residing at Adrian, in the county of Lenawee, State of Michigan, have invented certain new and useful Improvements in Adjustable Roller Window-Screens; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to an adjustable roller window-screen, and which consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide a screen of the character mentioned wherein the arrangement is such as to enable it to be readily applied to windows of various sizes and quickly and easily removed. The above object is attained by the structure illustrated in the accompanying drawings, in which—

Figure 1 is an isometrical view showing my improved screen applied to a window. Fig. 2 is an elevation of the screen-frame. Fig. 3 is a vertical section as on line 3 3 of Fig. 4. Fig. 4 is an elevation showing the screen raised and illustrating the adjustable features of the frame. Fig. 5 is an enlarged cross-section on line 5 5 of Fig. 2.

Referring to the characters of reference, 1 designates a cylindrical housing containing a spring-roller upon which the screen-netting 2 is wound and which is adapted to retract said netting when the metal cross-piece 3, to which the upper end of the netting is secured, is detached from the lower rail 4 of the window-sash. Secured to the ends of the housing 1 are the metal uprights 5, which are U shape in cross-section and afford vertical guides for the projecting ends 6 of the cross-piece 3, which are adapted to slide vertically therein. These vertical pieces 5 form the sides of the screen-frame, and in order to enable the frame to be adjusted in height said uprights or vertical pieces are made telescopic, the upper sections 7 being adapted to slide over the lower sections, as shown, and the edges of the embracing sections being turned over, as shown at 8, to maintain said parts together. By this arrangement the sides of the frame may be extended vertically to fit any size of window-opening.

To provide for the variation in the lateral widths of window-frames, there are employed the laterally-adjustable wings 9, having a right-angle flange 10 adapted to abut against and to be secured in any suitable manner to the window-stops when the screen-frame is placed in position and said wings extended. These wings, like the upright guides 5, are made vertically telescopic, and the two parts are secured together by turning over the edges of one part so as to embrace the other, as shown at 11 in Fig. 5, whereby said wings may be extended or contracted vertically with the vertical guides 5 when it it desired to vary the vertical height of the frame. The wings 9 are mounted upon the rear face of the upright guides 5 by means of the pins 12, which are riveted in the guides and pass through the transverse slots 13 at the upper and lower ends of said wings, whereby said wings are permitted a lateral movement upon the guides, so as to enable the screen to be fitted to windows of varying widths.

The upper sections 7 of the uprights 5 are connected across their top ends by the transverse cross-bar 14, provided with a lateral flange 15, which is adapted to engage the under face of the lower rail 16 of the upper sash and is secured thereto by suitable brads or screws 17. By this arrangement the frame is permitted to telescope as the upper sash is lowered and is extended as the upper sash is raised.

The cross-piece 3, to which the netting is attached, is provided with the eyes 18, which are adapted to be engaged over a screw or other fastening device attached to the lower rail 4 of the lower sash, whereby the netting can be readily detached from the sash when desired. With the parts in position, as shown in Fig. 1, the raising of the lower sash will cause the screen to follow it upwardly and screen the opening as the sash is raised, enabling the window to be opened and screened at any desired height. When the window is closed, the netting is wound upon the roller within the housing 1 and is protected by an inclined water-shed 19, which projects from the cross-piece 3 and extends over the housing.

Having thus fully set forth my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. A window-screen comprising a netting upon a roller, a cross-piece attached to said netting, vertical guides to receive the ends of said cross-piece, said guides being telescopic, a rigid cross-bar connecting the ends of the upper members of said guides and laterally-adjustable wings mounted upon the guides for varying the width of the frame.

2. A screen-frame, comprising an annular casing, a netting upon a roller in said casing, a cross-piece secured to the end of said netting, vertically-telescopic guides adapted to receive and direct the ends of said cross-piece, the lower members of said guides leading from and rigidly connected to said casing, a cross-bar connecting the upper ends of the upper members of said guides adapted to be attached to the bottom rail of the upper sash and adjustable telescopic wings mounted upon said guides to reciprocate laterally.

3. A screen-frame comprising an annular casing, a netting upon a roller in said casing, a cross-piece secured to the end of said netting, vertically-telescopic guides leading from and rigidly connected to the casing adapted to receive and direct the ends of said cross-piece, a cross-bar connecting the upper ends of said guides adapted to be attached to the bottom rail of the upper sash and adjustable telescopic wings mounted upon said guides to reciprocate laterally.

In testimony whereof I sign this specification in the presence of two witnesses.

ANDREW J. BAKER.

Witnesses:
KATHRYN E. BECKER,
W. WESTERMAN.