

O. B. CRITCHLOW.
WINDOW SCREEN.
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1,167,153.

Patented Jan. 4, 1916.

FIG. I.

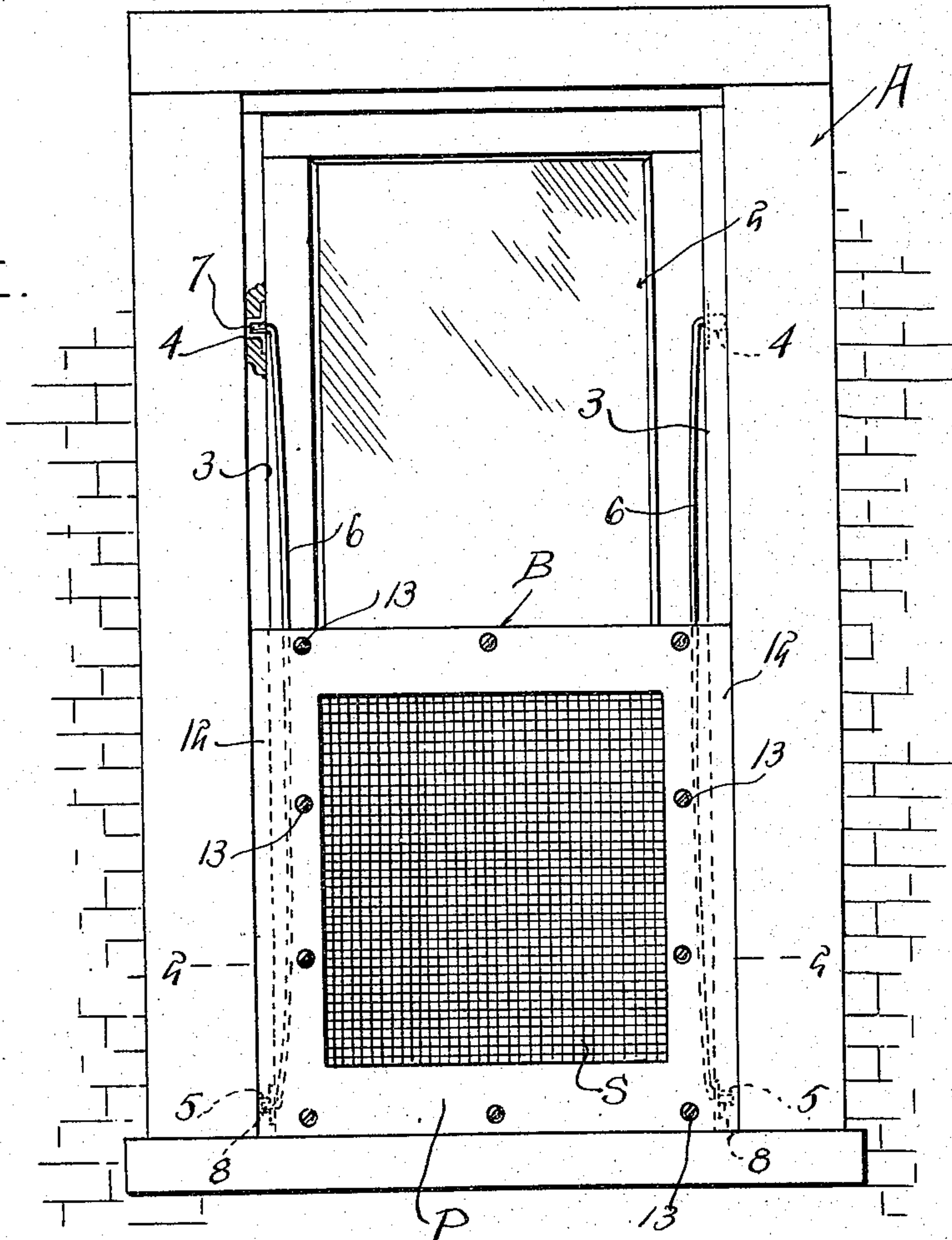
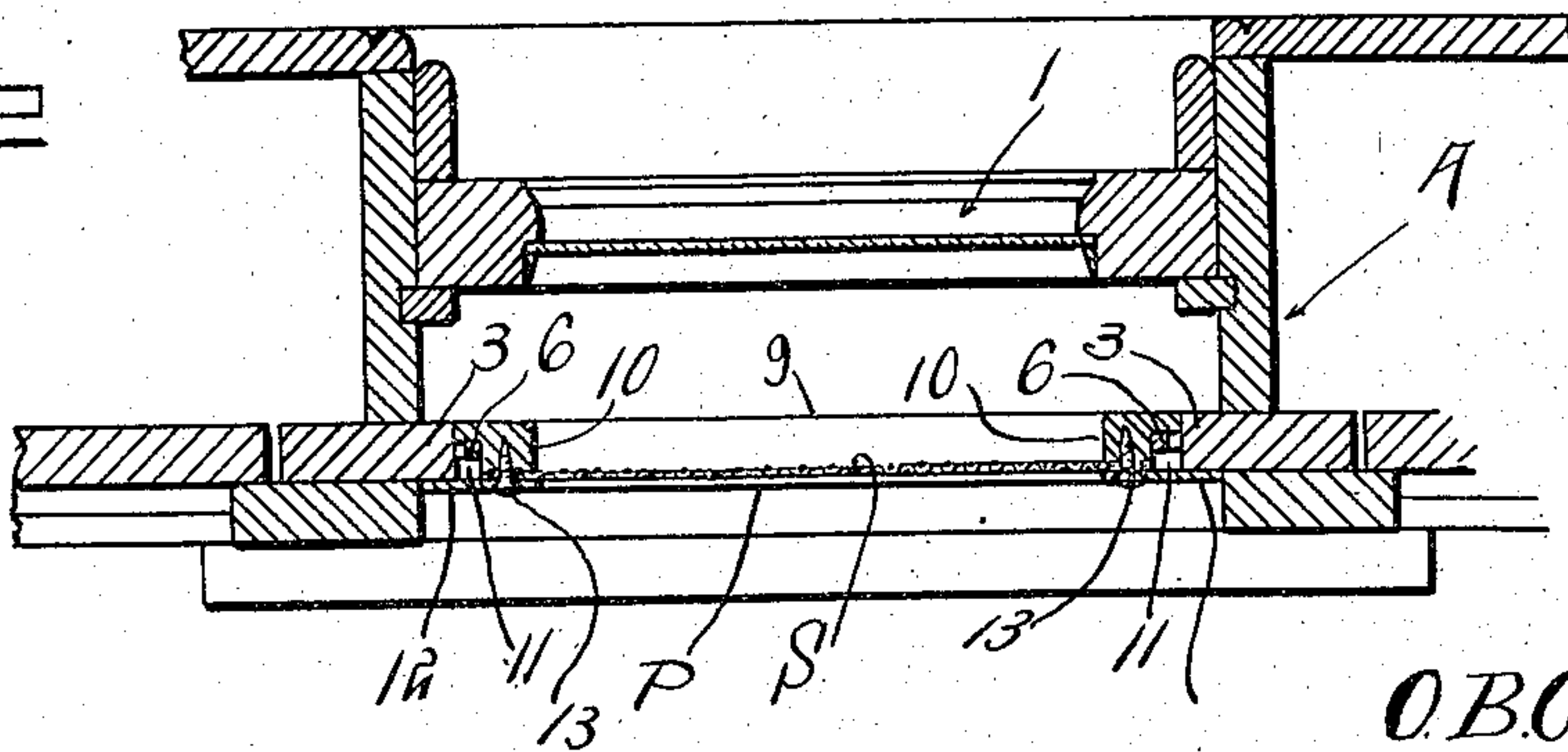


FIG. II



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UNITED STATES PATENT OFFICE.

OSCAR B. CRITCHLOW, OF MONACA, PENNSYLVANIA.

WINDOW-SCREEN.

1,167,153.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OSCAR B. CRITCHLOW, a citizen of the United States, residing at Monaca, in the county of Beaver, State of Pennsylvania, have invented certain new and useful Improvements in Window-Screens; and I do hereby 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.

This invention relates to certain novel and useful improvements in window screens, and has particular application to a sliding screen which is so mounted in the window frame that it may be shifted to position to cover the lower section of the window when the lower window sash is raised, or may be shifted to cover the upper section of the window when the upper window sash is lowered, so that no matter which of the window sashes is shifted to open the window, the screen may be also shifted to cover such open portion of the window.

In the present instance it is my purpose to provide a window screen, the frame of which has the vertical side portions thereof grooved to receive slightly bowed or convexed spring guide rods which are seated at their ends in thimbles or sockets inserted in the outer parting beads of the window frame so that the screen may slide freely up and down on these spring rods. Furthermore, the reticulated or screen material is held stretched in position on its frame by means of a flat plate-like frame of metal, the sides of which project beyond the sides of the screen, and bearing against the outer faces of the outer parting beads, form supplemental guides for sliding the screen, in addition to forming means for holding the rectangular piece of screen on its frame.

It is also my purpose to provide a sliding window screen which will embody the desired features of simplicity, neatness, efficiency and convenience, and which may be manufactured and marketed at a relatively low cost.

With the above recited objects and others of a similar nature in view, my invention consists in the construction, combination and arrangement of parts set forth in and falling within the scope of the appended claims.

In the accompanying drawings: Figure 1 is a view in elevation of the outside of the window frame, showing my invention ap-

plied thereto. Fig. 2 is a cross sectional view taken on the line 2—2 of Fig. 1.

Referring now to the accompanying drawings in detail, the letter A indicates a window frame, while 1 is the lower sash and 2 is the upper sash. The outer parting beads at opposite sides of the window frame are shown at 3—3 and socketed in each parting bead adjacent the upper end thereof is a metallic thimble 4, while a similar thimble 5 is socketed in each bead adjacent the lower end thereof. At each side of the window frame I locate a spring rod 6 which is preferably square in cross section throughout its length and is provided with an angularly bent terminal 7 at its upper end, which is adapted to seat in the adjacent upper thimble 4, and a lower angularly bent terminal 8 which is adapted to seat in the adjacent lower thimble 5. These angular terminals of the rod are preferably circular in cross section.

The sliding window screen frame is indicated as an entirety by the letter B and comprises a rectangular frame 9 of wood, metal or other suitable material, the vertical sides 10 of which have longitudinal grooves 11 formed in the outer faces thereof and extending throughout the length of the sides 10. These grooves 11 are adapted to fit into and receive the spring guide rods 6, these rods being preferably made of steel wire. Thus it will be seen that the frame may slide freely up and down on the rod by reason of grooves or channels so that it may be moved from the top to the bottom of the window frame and vice versa. By slightly bowing or convexing the spring rods 6 I insure that the window screen may be held by the pressure of the rods in any suitable position to which it has been moved, it requiring action on the part of the operator grasping the screen and pushing thereon to shift such frame along the rod. This frame 9 is covered with the usual piece of reticulated or screen-like material S, which is preferably placed at the outer face of the frame and is held stretched in position by means of the rectangular skeleton frame plate P which is preferably made of metal, although it may be made of wood if desired. The sides 12 of the plate-like frame extend beyond the adjacent sides 10 of the screen frame proper and lie or bear against the faces of the parting beads, this plate-like frame P being fastened to the frame 9 of the screen by means of small brads, screws,

tacks or the like, as shown at 13. By making the sides 12 of this plate frame P wide enough to overlies the outer faces of the parting beads, it will be seen that not only
5 does the frame act to secure the screen piece properly in position on its frame 9, but these sides 12 also act to guide the frame in its vertical movement along the proper path, as the outer edges of the sides 12
10 will prevent undue lateral movement of the screen. In order to remove the screen from the window, it is only necessary to slide the screen frame to the top of the sash and swing the guide rods out of the lower thimbles in the parting beads, and then pull
15 the screen down and out.

A screen constructed in this manner can be readily put in place in the windows from the inside of the room by turning the screen
20 sidewise, passing it out of the window and turning it upright again and then sliding it in position. Furthermore, such screen may be readily employed with windows equipped with shutters.

What I claim is:

The combination with a window frame

including the outer parting beads thereof, of a pair of spaced thimbles socketed in each parting bead, a vertically disposed spring guide rod overlying each parting bead and
30 having laterally bent terminals removably seated in the thimbles of such parting bead, a sliding screen frame having longitudinal grooves in the sides thereof adapted to receive the spring guide rods, a piece of reticu-
35 lated material covering the screen frame, and a skeleton frame plate overlying the piece of reticulated material and having its side portions extending beyond the sides of the screen frame, said extending portions
40 of the sides of the plate frame resting upon and slidably engaging the outer faces of the parting beads of the window frame, and means for fastening the plate and screen
45 to the screen frame.

In testimony whereof, I affix my signature, in the presence of two witnesses.

OSCAR B. CRITCHLOW.

Witnesses:

GILBERT TRUMPETER,
H. O. MALONE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."