

(No Model.)

R. WEBB & E. E. SCHOENING.
SLIDING ADJUSTABLE WINDOW SCREEN.

No. 597,627.

Patented Jan. 18, 1898.

Fig. I.

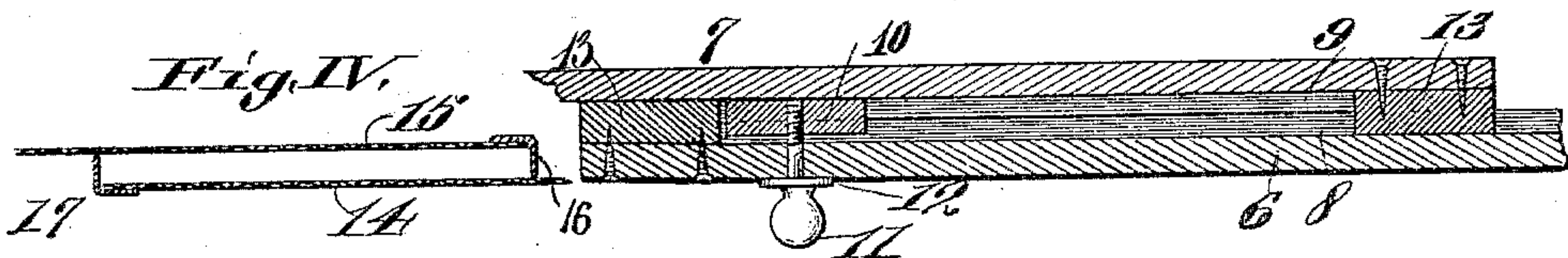
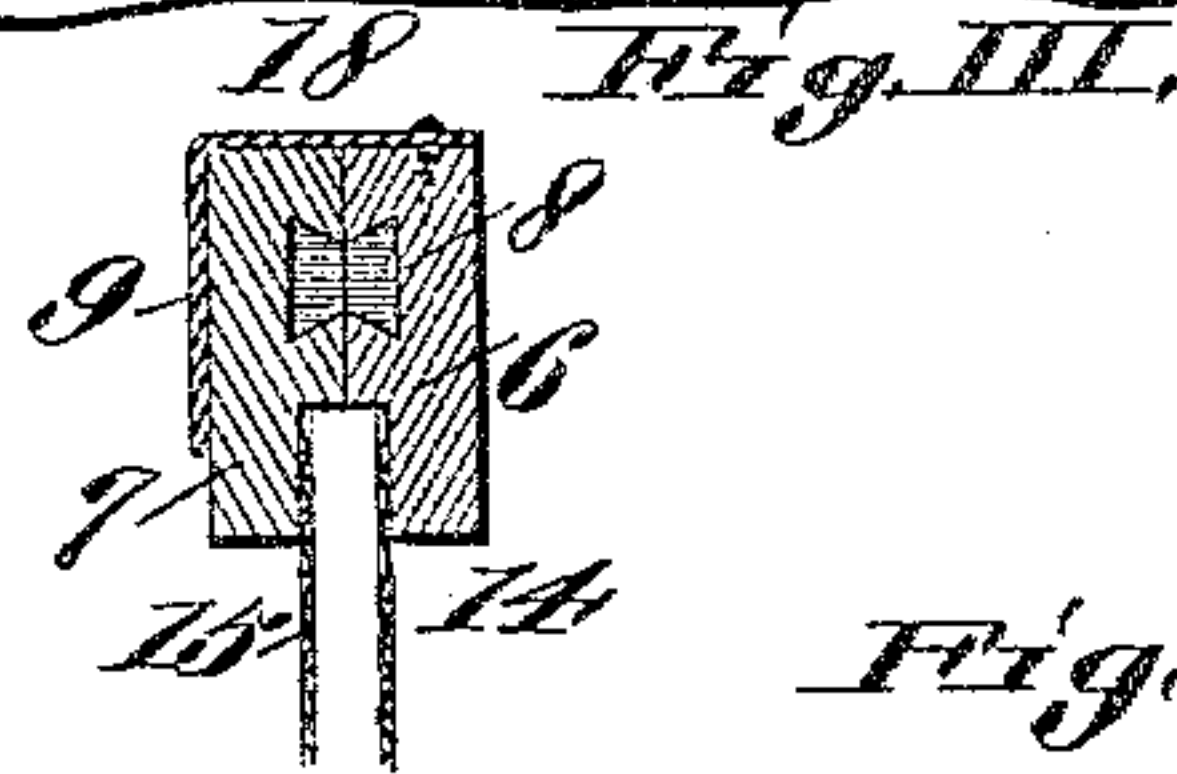
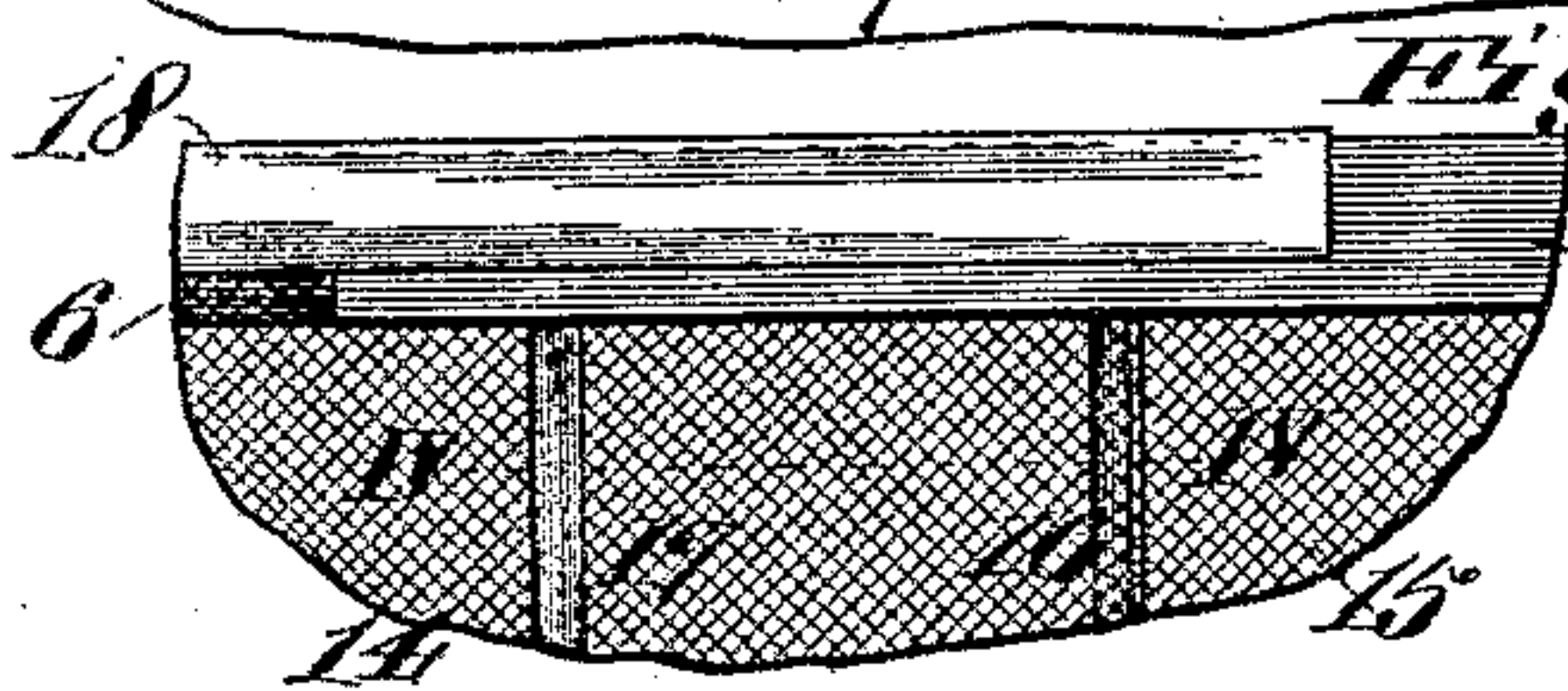
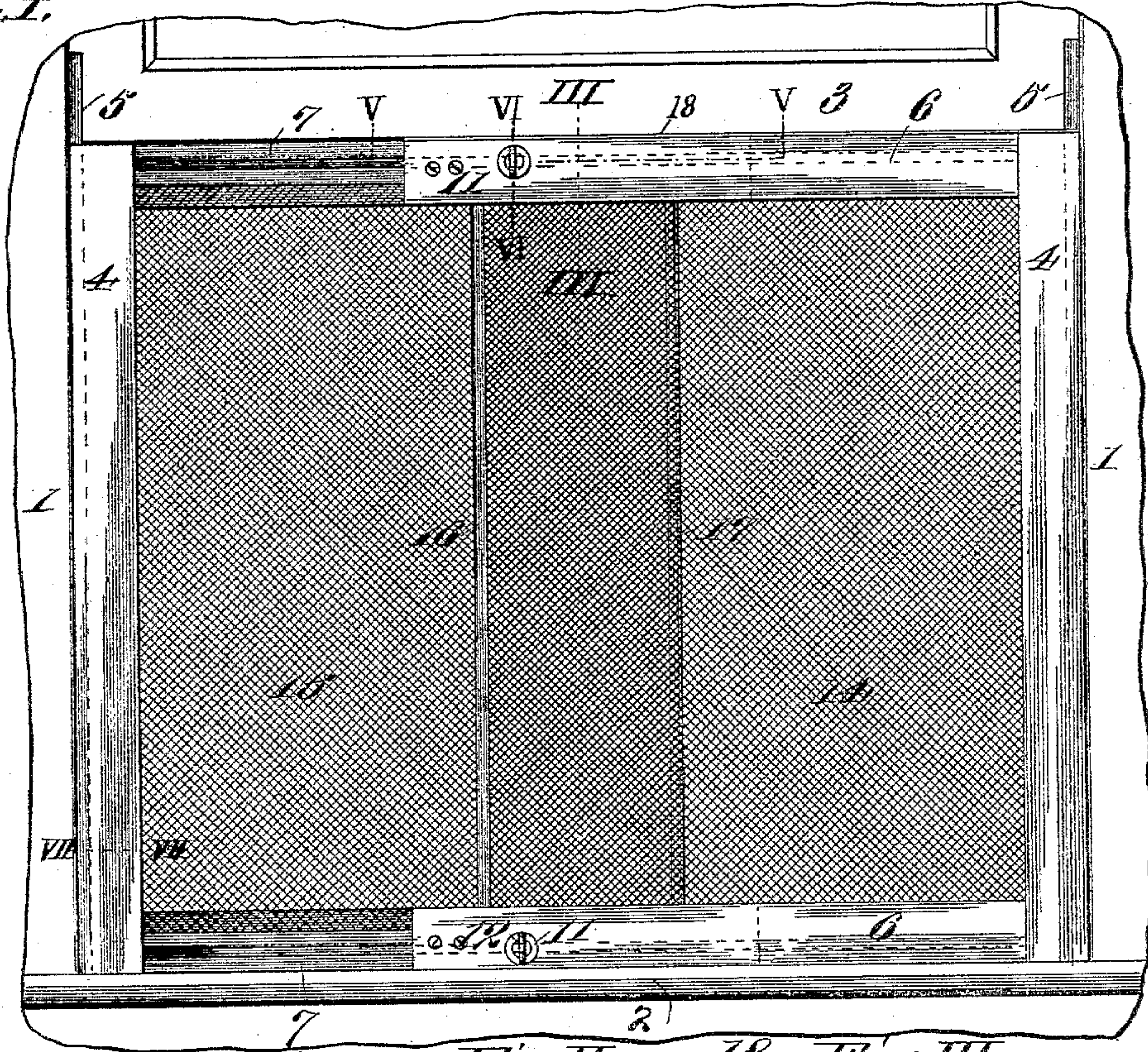


Fig. VI.

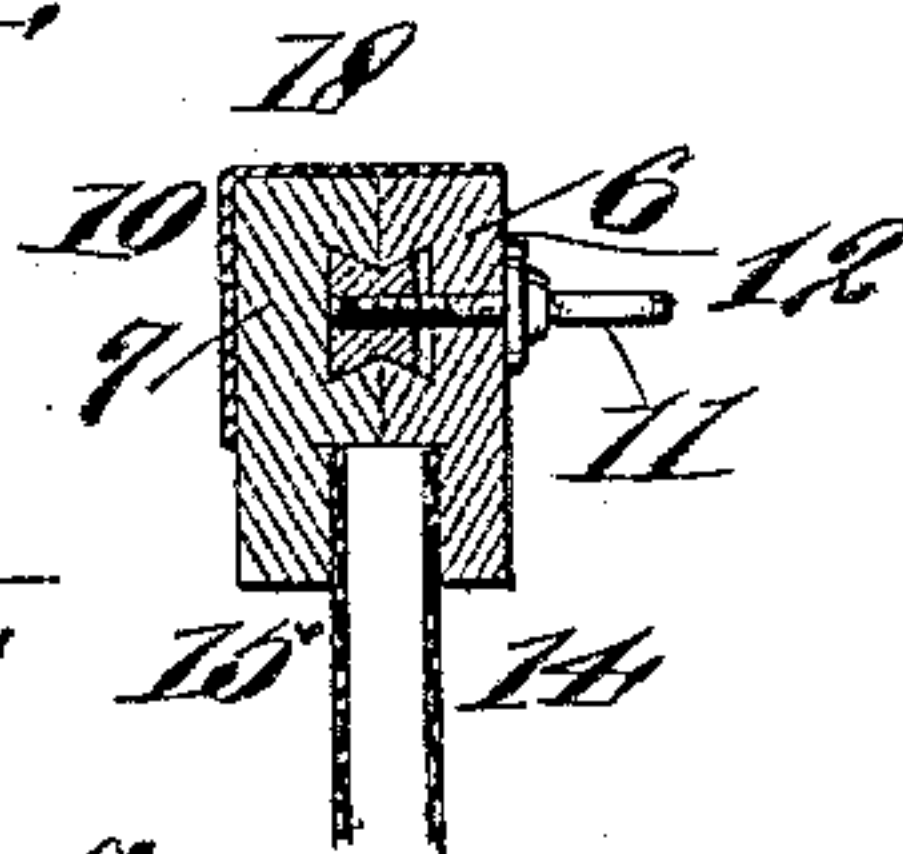
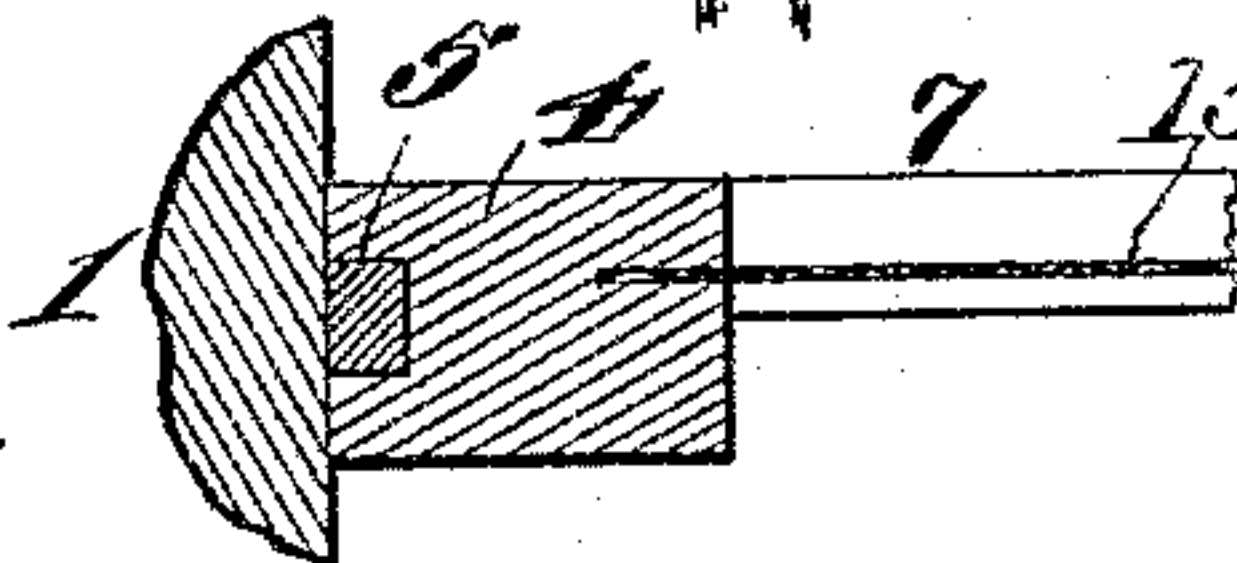


Fig. VII.



Attest:

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UNITED STATES PATENT OFFICE.

RICHARD WEBB AND EDWARD E. SCHOENING, OF ST. LOUIS, MISSOURI.

SLIDING ADJUSTABLE WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 597,627, dated January 18, 1898.

Application filed August 4, 1897. Serial No. 647,110. (No model.)

To all whom it may concern:

Be it known that we, RICHARD WEBB and EDWARD E. SCHOENING, both citizens of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Adjustable Sliding Window-Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

The object of our invention is to provide a window-screen that is capable of being adjusted to a window of any size and which when adjusted may be rigidly secured in place. It is so constructed as to leave no spaces either between the screen-sections or between the window-sash and screen-frame to afford the ingress of flies or other insects and possesses features of novelty hereinafter fully described and claimed.

Referring to the drawings which form a part of this specification, Figure I illustrates a front elevation of our screen in position, while the window-frame is shown partly broken away. Fig. II is a detail rear view of a portion of the horizontal bars. Fig. III is an enlarged section on line III III, Fig. I. Fig. IV is a horizontal section taken through the screen-netting along the line IV IV, Fig. II. Fig. V is a detail longitudinal section taken along the line V V, Fig. I, showing the manner of securing the horizontal bars of the screen to each other. Fig. VI is a detail cross-section taken on the line VI VI, Fig. I. Fig. VII is a horizontal cross-section taken along the line VII VII, Fig. I.

1 is the window-frame.

2 is the window-sill, and 3 the sash.

4 are the two vertical side pieces of our improved screen, which are furnished with grooves, in which strips 5 are adapted to fit, the said strips being secured in the ordinary manner to the inside of the window-frame 1.

6 and 7 are the horizontal upper and lower bars, which are supplied with dovetail mortises 8 and 9 and are adapted to set close to each other and admit the insertion of blocks 10, each of said blocks being made to fit snugly into the said mortises 8 and 9 and yet being capable of moving therein. Each block

is channeled, so as to be incapable of removal from said mortises in any way except longitudinally.

11 are thumb-screws adapted to pass through the bars 6 and enter the blocks 10 to secure the same in any desired place. 12 are washers placed between the heads of the said thumb-screws and the said bars 6.

13 are tenons secured to the inner ends of the horizontal bars 6 and 7 and so flared as to ride in the mortises 8 and 9.

14 is the screen-netting connected to the bars 6 and 4, and 15 is the screen-netting connected to the bars 7 and 4.

16 is an angle-strip secured to the exposed edge of the screen-netting 15, one edge of which is bent inwardly at a right angle thereto, so as to come snugly against the netting 14, thereby avoiding any open space between the two sections. 17 is a similar angle-strip secured to the exposed edge of the screen material 14.

18 is a guard or cap bent at right angles and fastened by any suitable means to the upper horizontal bar 6 and bent over the line of the horizontal bar 7, so as to close the space between the end of the bar 7 and the window-sash.

The device is operated as follows: The strips 5 are secured to the window-frame 1 in the usual manner. They are adapted to act as guides in raising and lowering the screen, the side pieces 4 of said screen being provided with grooves that fit such strips for that purpose. The screen is placed in position with the guard or cap 18 on the outside and the thumb-screws 11 on the inside. The screen is first drawn together with the tenons 13 riding in the mortises 8 and 9 and the blocks 10 loosely riding in the mortises 8 and 9 and the thumb-screws 11 in position. It is then spread apart until it snugly fits between the guide-strips 5. The thumb-screws 11 are then turned into the blocks 10, which operation causes the blocks 10 to bind in the dovetail mortises and the bars 6 and 7 to be drawn closely together and secured in the required position. The tenons 13, fastened to the bars 6 and 7, act as guides for the inner ends of the bars 6 and 7. The space between the two sections of the screen-netting is filled by

the inturned angle of the strips 16 and 17, (see Fig. IV,) which are secured to the exposed edges of the screen material 14 and 15, as heretofore described. The space which
5 would otherwise be open between the end of the horizontal bar 7 and the upright bar 4 is filled by means of the guard or cap 18, which is bent over at a right angle at a distance sufficient to allow the free movement of the second horizontal strip 6 and which is wide
10 enough to sufficiently fill the said space between the window-sash 3 and the said horizontal strip 6, to which it (the guard or cap) is secured. The mortises 8 and 9 in each of the
15 horizontal bars 6 and 7 are coincident with each other and thereby form a guideway for the block 10, into which the thumb-screw 11 is introduced, and provide a construction by means of which the two pieces may be secured
20 together with absolute rigidity. This object is further accomplished by use of the blocks 13, which are securely fastened to the inner ends of the bars 6 and 7, which are widened so as to be retained in the mortises in the bars
25 6 and 7. This construction accomplishes the

desired result of keeping the two screen-sections tightly together.

We claim as our invention—

The combination consisting of two screen-sections; a means of adjustably securing the same together consisting of horizontal bars adapted to ride coincident to each other and each provided with a dovetail mortise, movable blocks riding in said mortises, thumb-screws passing through said bars and entering said blocks, tenons secured in the ends of said mortises of the bars of one section and riding in the mortises of the bars of the other section, inwardly-turned angle-strips secured to the exposed edges of the screen material; and an angle guard or cap fastened to one of said horizontal strips and adapted to close the space between the end of said other horizontal strip and the window-sash, substantially as described.

RICHARD WEBB.

EDWARD E. SCHOENING.

In presence of—

E. S. KNIGHT,

STANLEY STONER.