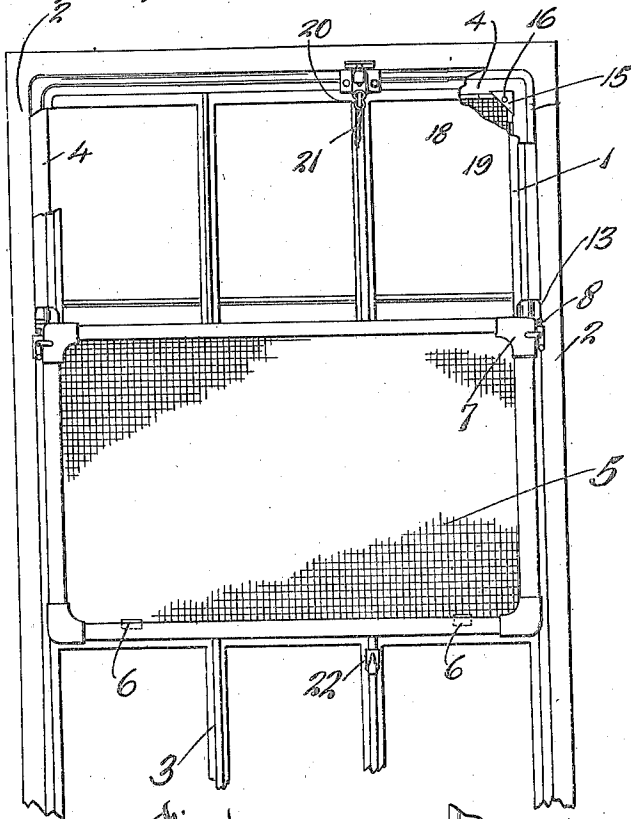
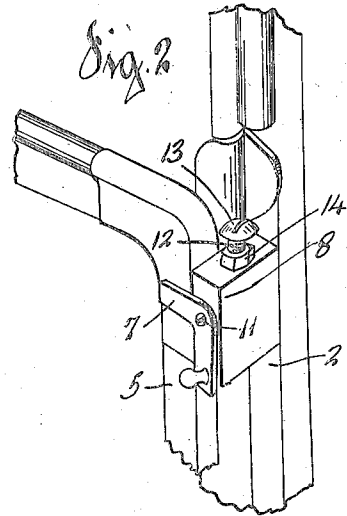
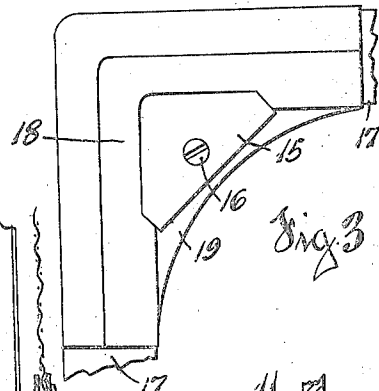
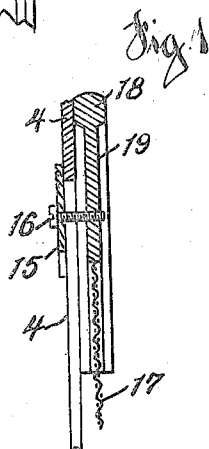
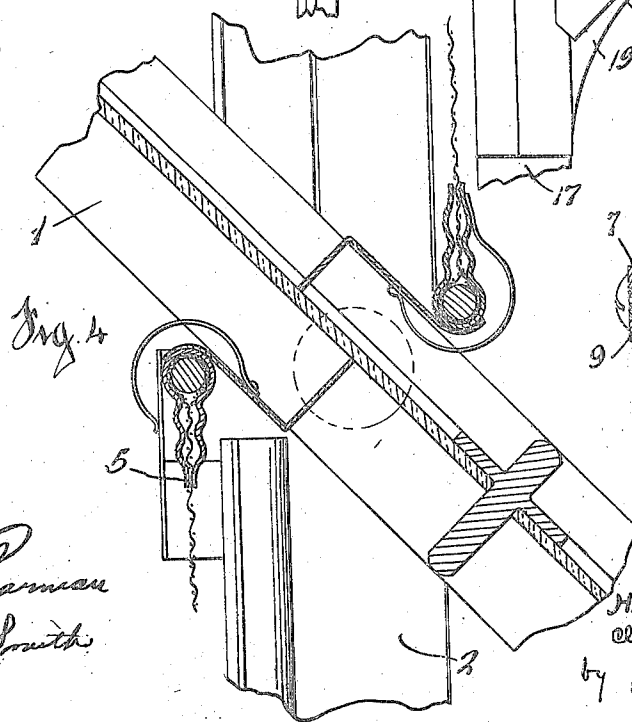
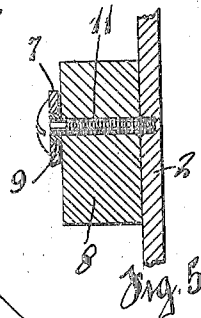


H. HIGGIN & C. TRAUT.
 SCREEN FOR REVOLVING WINDOWS.
 APPLICATION FILED AUG. 6, 1914.

Patented July 23, 1918.

1,273,221.



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SCREEN FOR REVOLVING WINDOWS.

1,273,221.

Specification of Letters Patent.

Patented July 23, 1918.

Application filed August 6, 1914. Serial No. 855,379.

To all whom it may concern:

Be it known that we, HENRY HIGGIN and CLIFFORD TRAUT, citizens of the United States, and residents of the city of Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Screens for Revolving Windows, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

In the adapting of screens to various kinds of steel sash, used with revolving windows for ventilators and the like, there must be considerable variation in structure because of the different form of muntin and weathering flanges thereon, in which the screens are to be mounted. In the steel sash in this case, the pivots or hinges for the window are made directly in the center of the framework. There is also a wide strip of weathering extending inwardly all around the framework for the window. Because of these features, a form of screen mounting and insect and dustproof closure has been devised of simple and effective structure as will be specifically pointed out and claimed in the ensuing specification.

In the drawings,

Figure 1 is a front elevation of the window taken from the inside.

Fig. 2 is a perspective view of an upper corner of the lower screen.

Fig. 3 is an elevation of the outside of the upper corner of the top screen and the clip shown in its proper position, the weathering flange being omitted between these members to show the screen.

Fig. 4 is a vertical section through the center of the window in open position.

Fig. 5 is a central vertical section of the stop post and latch pivoting means shown in Fig. 2.

Fig. 6 is a vertical section taken through the screen at the upper right hand corner of the window showing the means of attachment of the upper screen.

The window sash 1 is pivoted in the center of the frame pieces 2, 2, of the steel sash 3 shown in the drawings, and in which our screens are secured. The frame pieces 2, 2, have wide flanges or weathering extensions 4, 4, clear around the window frame.

When the screens are put in these for the windows, it is impossible in such a frame-

work to arrange the closure plates between the window and the screens on any basis such as has been adopted where it is possible to bring the edge of the screens on a line with the pivotal line of the revolving window. Accordingly it is our purpose to secure the screens flat up against the weathering 4, the lower screen on the inside surface thereof, and the upper screen on the outside surface.

The lower screen denoted generally by the numeral 5, has clips 6, 6, which hook over the upstanding edge of the weathering at the bottom, and pivoted latches 7, 7, on each side of the framework 2, to engage the upper part of the screen frame, at the sides.

The mounting of these clips is an important feature of the invention here. It is necessary in this type of window to provide a stop which will hold the window from revolving so far as to strike the screens. To provide this and in combination with it the mounting of the latch 7, we employ a post 8 of thick stock provided with a smooth screw hole. The latch 7 is provided with a bushing 9, around the hole for the pivot screw, and this bushing is of thicker stock than the latch, whereby it presents a raised annular flange around the hole. A large screw 11 is inserted through the latch hole, through the post 8 and is screwed tight into the metal frame 2.

Thus the post is securely mounted and a mounting on which the latch will turn, provided for such latch. For the stop to be adjustable, there is provided a screw 12, having a head 13 for the abutment to the window and a lock nut 14, the same to be screwed into the post 8, until the desired position has been reached.

For the top screen 17, so that its mountings can be got at from the inside, we provide for securing it against the weathering 4, small angle plates 15. These plates fit over the upper corners of the weathering, and have screw holes tapped in them to receive screws 16. These screws pass through the corner pieces 18 of the screen 17, and these corner pieces are preferably reinforced, as at 19, so that the plates 15 can be brought up tight against the corner pieces 18 by tightening the screws. The screen is then provided with any kind of a clip at the bottom which engages the inside surface of the weathering.

The screen is set outside of the weathering, and the clamp or angle plates 15 on the inside upper corners of the weathering. The tightening of the screws 16 will thus clamp 5 the upper corners of the screen in place so that they do not fall.

The means of securing and the kind of closure for the gap between the upper and lower screens and the window are the same 10 as in our Patent No. 1,165,670, issued December 28, 1915, application for which was filed on the same day, Serial No. 855,378, on screens for revolving windows. The closure and mounting referred to is that 15 shown in said patent in use for the upper screen. Reference is hereby made to that patent for a description of the parts as they form no part of this invention.

A spring bolt 20, with chain 21, and 20 notched chain holder 22 is used for opening and closing the window.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:—

25 1. In combination with a metal window

frame provided with a weathering, and an all metal screen bearing against the weathering on the outside, of corner plates at the upper corners of the screen frame bearing against the weathering on the inside, with 30 screws for clamping the corner plates to the screen frame to hold the screen in place.

2. In combination with a metal window frame provided with weathering, an all metal screen, with reinforcing metal strips 35 across the upper corners, the screen bearing against the weathering on the outside, of corner plates at the upper corners of the screen frame bearing against the weathering on the inside, with screws for clamping the 40 corner plates to the screen frame to hold the screen in place, the screws passing through the corner plates and into the reinforcing metal strips of the screen.

HENRY HIGGIN.
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Attest:

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