H. L. THOMAS.

COMBINATION SCREEN AND VENTILATOR.

APPLICATION FILED MAR. 5, 1919.

1,302,729. Patented May 6, 1919.

Fig. 1.

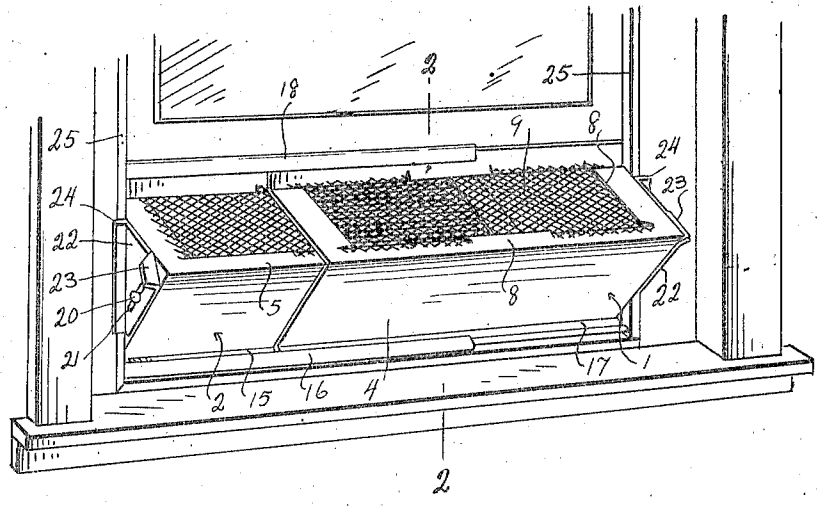


Fig. 2.

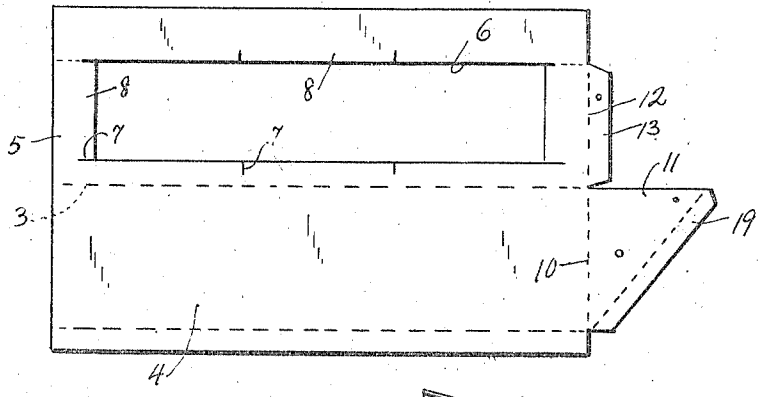


Fig. 4.

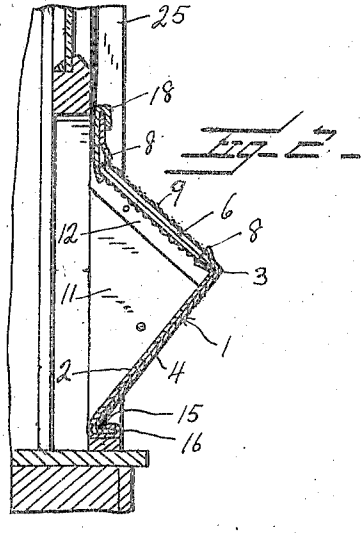
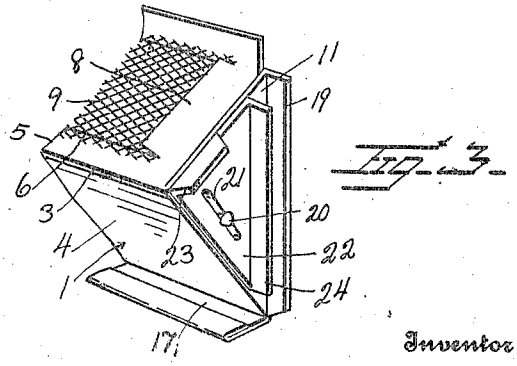


Fig. 3.



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COMBINATION SCREEN AND VENTILATOR.

1,302,729. Specification of Letters Patent. Patented May 6, 1919.

Application filed March 5, 1919. Serial No. 280,840.

To all whom it may concern:

Be it known that I, HARRY L. THOMAS, a citizen of the United States, residing at Crum Lynne, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Combination Screens and Ventilators, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved combination screen and ventilator, and an object of the invention is to provide an adjustable screen for insertion between the lower part of the lower sash and the base of the window frame, thereby screening the window as well as constituting a ventilator.

The invention further aims to provide a device of this kind, which is constructed in two sections, slidably connected or united, whereby the combined screen or ventilator may fit window frames of various widths.

The invention further aim to provide means on the opposite ends of the sections, for locking the combined screen and ventilator to one of the guides of the lower sash. This locking or connecting means of the ventilator or screen to the guide for the sash is of such construction and design as to hold the screen or ventilator tightly against the lower rail of the sash when lowered, as shown clearly in Figures 1 and 2.

The invention further aims to provide a combined screen and ventilator, each section of which is constructed from a single piece of sheet metal.

A further object of the invention is to provide a combined screen and ventilator that will fit any size window.

A further object of the invention is to provide a combined ventilator and screen which can be so installed and regulated as to permit the window to be easily raised and lowered, and to further provide a screen or ventilator, that can be easily manipulated by anybody with ease and convenience.

The combined screen or ventilator can be moved from one room to another, and it is obvious that the same is storm proof, and since the screened openings in the sections face upwardly drafts are prevented from blowing directly on persons in the room, consequently will prevent blowing papers or the like from a desk or table.

While the design and construction at present illustrated and set forth is deemed preferable, it is obvious that as a result of a reduction of the invention to a more practical form for commercial purposes, the invention may be susceptible to changes, and the right to these changes is claimed, provided they are comprehended within the scope of what is claimed.

The invention comprises further features and combination of parts, as will be hereinafter set forth, shown in the drawings and claimed.

In the drawings:

Fig. 1 is a view in perspective of the improved combined ventilator and screen as applied to a window and the sash thereof.

Fig. 2 is a vertical sectional view on line 2—2 of Fig. 1.

Fig. 3 is an enlarged detail perspective view of the outer end of one of the sections, showing the means applied thereto for connecting the section to the window frame.

Fig. 4 is an enlarged plan view of the blank from which one of the sections of the ventilator is constructed.

Referring more especially to the drawings 1 and 2 designate the two sections of the combined screen and ventilator. As shown in Fig. 4 it is obvious that each section is constructed from a single piece of sheet metal, bent upon itself as at 3, to provide the front downwardly inclined face 4 and the upper inclined portion 5. This portion 5 has an elongated opening 6, the marginal edge portions of which are slitted as shown at 7 to provide the holding tongues 8. These tongues 8 are so deflected as to overlie parts of a piece of wire fabric 9, to cover the opening. By this construction it is to be noted that the pieces of wire fabric may be easily removed, for the insertion of new pieces, if so desired. The sheet metal blank is bent upon itself as at 10, to provide the end piece 11, and also bent at 12 to provide the end flange 13. When the blank is bent longitudinally upon itself as previously stated, and the bends 10 and 12 having been made, the flange is riveted to the under piece, thereby closing the end of the screen or ventilator section. In this regard each section of the ventilator is similarly constructed. It is to be noted that the opposite end of each section is minus the end piece,

thereby permitting two sections to be slidably united, one to overlie the other, as shown clearly in Fig. 1. The lower part of the front wall of one of the sections has an outwardly turned flange 15, provided with a guide 16, to receive the outwardly turned flange 17 of the lower part of the front wall of the other section. The upper part of the section having the guide 16, is provided with a guide 18, for the reception of the upper part of the other section. By virtue of these guides, it is obvious that the two sections may be slidably united one over the other. The end piece 11 of each section has a laterally disposed flange 19. A headed stud projects from the end piece 11, and the shank of this stud 20 engages through the slot 21 of the adjustable plate 22. This plate 22 has a thumb engaging flange 23, and is also provided with an additional flange 24, to coöperate with the flange of the end piece 11, to lock the screen or ventilator and the inner guides 25 of the lower sash, so as to hold the upper part of the screen or ventilator tightly against the inner surface of the lower rail of the sash. In order to fasten the screen or ventilator in position, the plates are moved upwardly and outwardly, so as to widen the space between the flanges of said plates and the flanges of the end pieces, to permit of the reception of the guides for the lower sash of the window. After the guides of the lower sash of the window are inserted between the flanges of the plates and the flanges of the end pieces 11, the plates may be adjusted downwardly toward the lower rail sash, so as to clamp the guides between the coöperating flanges.

The invention having been set forth, what is claimed as new and useful is:

1. In a combined screen and ventilator, the combination with a pair of sections slidably united and provided with screened openings, the remote ends of the sections having end pieces provided with flanges, and movable members carried by the end pieces, having means coöperating with said flanges for clamping the guides for the lower sash of a window.

2. In a combined screen and ventilator, the combination with a pair of sections, of means for slidably uniting the two sections, said sections having screened openings, the remote ends of the sections having end pieces, and means carried by the end pieces for clamping engagement with the guides for the lower sash of the window.

3. In a combined screen and ventilator, the combination with a pair of sections, of means for slidably uniting the two sections, said sections having screened openings, the remote ends of the sections having end pieces, said end pieces having flanges vertically disposed, plates having flanges to cooperate in parallelism with the first flanges for clamping the guides for the lower rail of a window, said plates having inclined slots, and means passing through the slots and carried by the end pieces, for slidably supporting said plates.

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

HARRY L. THOMAS.

Witnesses:

JOSEPH S. KRATZ,

SAMUEL J. HOUSTON.