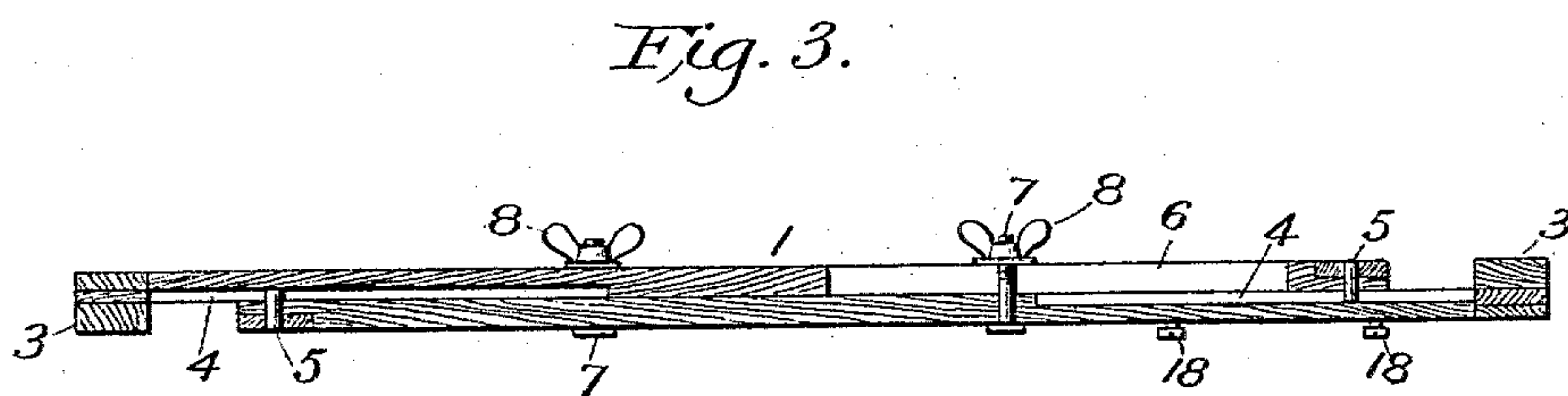
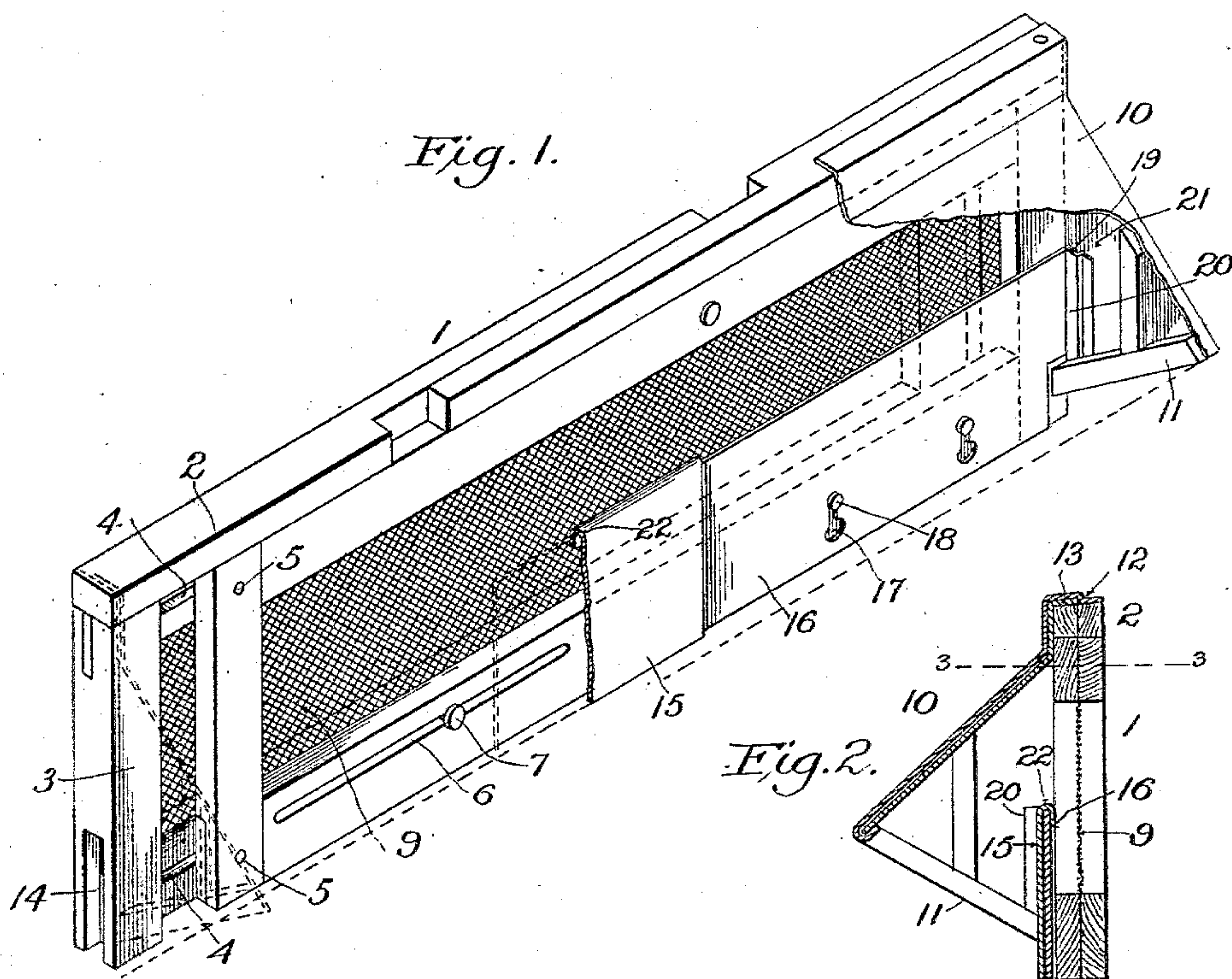


(No Model.)

M. H. HARTZELL.  
WINDOW VENTILATOR.

No. 597,145.

Patented Jan. 11, 1898.



WITNESSES

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# UNITED STATES PATENT OFFICE.

MORRIS H. HARTZELL, OF PHILADELPHIA, PENNSYLVANIA.

## WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 597,145, dated January 11, 1898.

Application filed October 26, 1896. Serial No. 610,045. (No model.)

*To all whom it may concern:*

Be it known that I, MORRIS H. HARTZELL, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Ventilators; 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 has reference to a novel construction in a ventilator adapted for use in connection with sliding windows; and it consists in the features of construction hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a ventilator constructed in accordance with this invention. Fig. 2 is a vertical transverse section, and Fig. 3 is a horizontal section taken on the line 3 3 of Fig. 2.

This device is intended to be placed at the upper or lower end of a window-frame and between the upper or lower end of the sash and the adjacent end of the window-frame.

The device is made adjustable longitudinally, so that it fits windows varying in width and serves to ventilate, while at the same time it will exclude flies and insects.

Referring now to said drawings, said ventilator consists of two frames 1, adapted to slide upon each other. These frames are counterparts of each other and are provided with overhanging flanges 2, that engage the top edge of the other member, and with end flanges 3 to engage the end of the other member. In this way the members are fitted together so that they can slide. The said frames are provided at their upper and lower ends with longitudinal grooves 4, that receive pins or projections 5 upon the other member to hold these parts firmly together that they may move longitudinally with relation to each other. To hold the frames in their adjusted positions, they are provided with longitudinal slots 6, through which pass pins 7, fastened to the other member and provided with the thumb-screws 8, that serve to clamp the members together. The frames are covered with a wire-netting 9 to exclude

flies and insects, and the said frames are also provided with overhanging hoods 10, fastened along the upper edge of the frames, as shown in Figs. 1 and 2. These hoods extend downwardly and outwardly to a point near the bottom of the frame and are held at their ends by braces 11, secured thereto and to the end of the pieces of the frame. These hoods are adapted to slide with relation to each other, being carried by the sliding frames, and at the top of the frames one of said hoods is provided with an overlapping tongue 12, between which and the top rail of the frame the tongue 13 of the other hood is situated. The ends of the frames are provided at the lower end portions with recesses 14, in which the window-cords are situated when the ventilator is placed in the upper end of the frame. On the outside thereof are two deflecting-plates consisting of two sections 15 and 16, that are attached to the frames 1. These plate-sections 15 and 16 extend from the lower end of the ventilator to about one-half of the way between the top and lower edges of the screen 9. The section 16 is provided with key-slots 17 to receive the headed pins 18 upon the outer frame 1, while the end of this section 16 is provided with the flange 19, situated within the guide 20, carried by the end plates 21 of the hood. The plate-section 15 is attached at its outer end to the other end of the hood in a similar manner and is provided at its upper edge with a flange 22, that rests upon the upper edge of the plate-section 16. It will be seen, therefore, that this plate-section 16, being held by means of the headed pins 18, will support the other plate-section in an obvious manner.

It will be seen from the foregoing description that a ventilating device of this kind in the first place is adjustable to windows of different size, and, furthermore, that it can be readily placed in position at the upper or lower end of the window-frame and between said frame and the end of the window-sash and will allow sufficient ventilation, while at the same time it excludes flies and insects from the room. The frames of the ventilating device fit nicely and slide readily, while the deflecting-plate can be removed when not needed—for instance, when the device is placed at the upper end of the window-frame.



When the device is placed at the bottom of the window, this deflecting device is useful, since it prevents the rain from splashing into the room after striking the sill, so that in connection with the overhanging hood the rain is effectually excluded.

The device is simple and inexpensive and can be made in a durable manner.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A ventilator consisting of two relatively-sliding frames, said frames being provided with overhanging hoods that overlap and slide with relation to each other, and screens carried by said frames.

2. A ventilator consisting of two relatively-sliding frames provided with screens, and recesses in the lower end portions of said frames to receive window-cords.

3. A ventilator consisting of two relatively-sliding frames provided with screens and with overlapping and overhanging hoods, and uprising and overlapping deflecting-plates secured to said frames opposite the lower end portion of said screens.

4. A ventilator consisting of two relatively-sliding frames provided with overhanging hoods, and uprising and overlapping deflect-

ing-plates removably secured to the lower end portions of said frames.

5. The combination with the relatively-sliding frames of a ventilator, of a deflecting plate-section secured to the lower end portion of one of said frames, and a deflecting plate-section secured to the end of said other frame and provided with a flange resting upon the upper edge of the first-mentioned deflecting plate-section.

6. The combination with the relatively-sliding frames of a ventilator, of headed pins and an upright guide upon one of said frames, a deflecting plate-section provided with key-slots and an end flange, the other of said frames being provided with an upright guide, and a deflecting plate-section having an end flange situated within said last-mentioned guide and having an upper flange resting upon the upper edge of said first-mentioned deflecting plate-section.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MORRIS H. HARTZELL.

Witnesses:

CORA PATTON,

WILLIAM G. PATTON.