Oct. 3, 1933. H. D. SEVISON 1,929,219

SASH VENTILATOR

Filed Sept. 12, 1930

Fig. 1.

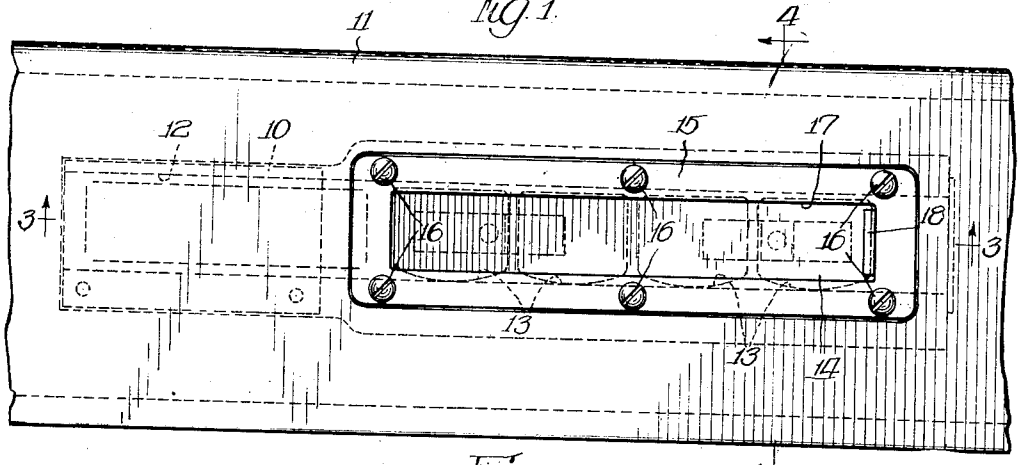


Fig. 2.

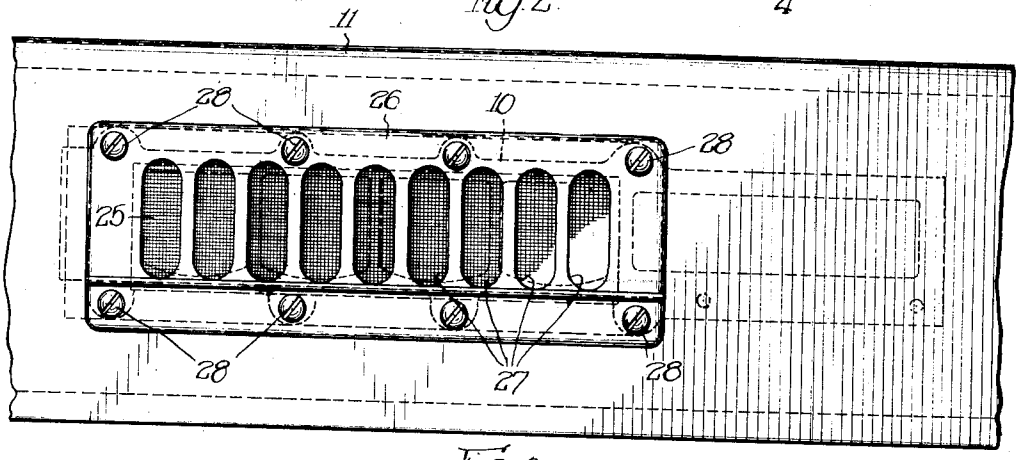


Fig. 3.

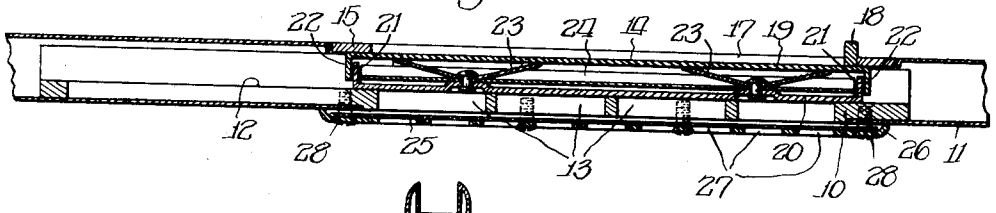
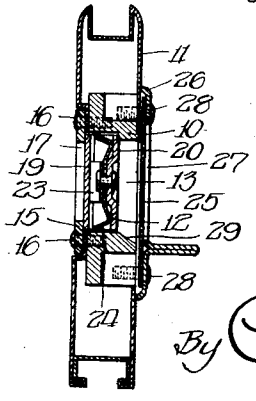


Fig. 4.



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SASH VENTILATOR

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Application September 12, 1930
Serial No. 481,400

6 Claims. (Cl. 98—97)

This invention has to do with sash rail ventilators of the built-in adjustable slide type.

The object of the invention is to provide an improved ventilator of the type described which will operate easily without sticking, will not rattle, will prevent the entry of air and water when closed, and is inexpensive to manufacture.

While the ventilator of the invention is designed primarily for use in the bottom rail of a sash, it may be used in other places, as in doors and panels.

Other objects and advantages of the invention will be apparent to those skilled in the art upon a full understanding of the construction, arrangement and operation of the improved ventilator.

One form of the invention is presented herein for the purpose of exemplification, but it will of course be appreciated that the invention is susceptible of embodiment in other modified forms coming equally within the scope of the appended claims.

In the accompanying drawing:

Fig. 1 is an inside face view of the lower rail of a sash equipped with the ventilator of the invention, showing the ventilator closed;

Fig. 2 is a corresponding outside face view of the rail;

Fig. 3 is a horizontal section through the ventilator taken on the line 3—3 of Fig. 1; and

Fig. 4 is a vertical section through the ventilator taken on the line 4—4 of Fig. 1.

As will be observed in the drawing, the ventilator includes an elongated frame 10 which is positioned within a hollow sheet metal sash rail 11. The frame 10 is provided, adjacent the inner side of the rail, with a longitudinally extending guide groove 12, and is provided, adjacent the outer side of the rail, with a longitudinally extending row of ventilating apertures 13 which open into the guide groove throughout one end only of the latter.

The guide groove 12 contains an elongated slide 14 which is slightly greater in length than the row of apertures 13 and is adapted to be shifted longitudinally of the groove whereby to progressively close all of the apertures. The slide 14 is held within the groove 12 by an inner cover plate 15, which plate is positioned directly opposite the row of apertures 13 against the countersunk edges of an opening in the inner side of the rail 11 and is detachably secured to the frame 10 by screws 16 which pass through the edges of the opening into the frame. The cover plate 15 has an elongated slot 17 therein through which all of the apertures 13 are exposed when the slide 14 is retracted. A finger piece 18 is attached to one end of the slide 14 on the inner side thereof and projects through the slot 17 in the plate 15 into a position wherein it may be readily grasped for shifting the slide.

The slide 14 consists of two elongated plates 19 and 20 which are arranged in spaced parallel relation to each other. The outer plate 20 is provided with inturned end flanges 21, and the inner plate 19 is provided with outturned end flanges 22 which extend beyond and lap with the flanges 21 on the outer plate. The plates 19 and 20 are pressed respectively against the cover plate 15 and the frame 10 by bowed leaf springs 23 which are attached to one of the plates, and the upper and lower edges of the slide are sealed with the top and bottom surfaces of the guideway by an elongated spring strip 24 of bowed cross-section which is attached to the same plate as the springs 23 and bears against the upper and lower edges of the guide groove 12.

The ventilating apertures 13 are exposed through an elongated opening in the outer face of the rail 11 and are covered over by a wire screen 25. The screen 25 is held in position by an outer cover plate 26 which contains a row of openings 27. The plate 26 is detachably secured to the outer face of the rail by screws 28 which extend into the frame 10. The lower edges 29 of the ventilating apertures 13 in the frame preferably slope toward the lower edges of the openings 27 in the plate 26, whereby to prevent accumulation of water in the apertures.

The slide 14, by reason of the resiliently expanded construction thereof, provides a snug weatherproof closure for the ventilating openings 13. Furthermore, the slide will not stick or bind, and will not rattle.

I claim:

1. In a ventilator, a frame having a guideway and a row of ventilating apertures opening into the guideway, and a resiliently expansible slide shiftably mounted in the guideway for progressively closing off the ventilating apertures when moved in one direction.

2. In a ventilator, a frame having a guideway and a row of ventilating apertures opening into the guideway adjacent one end only of the latter, and a hollow imperforate resiliently expansible slide shiftably mounted in the guideway for progressively shutting off the ventilating apertures when moved in one direction.

3. In a ventilator, a frame having a guideway and a row of ventilating apertures opening into the guideway, an imperforate slide shiftably

mounted in the guideway for progressively shutting off the ventilating apertures one after the other when moved in one direction, and means for pressing the slide resiliently against the portion of the guideway into which the ventilating apertures open.

4. In a ventilator, a frame having a guide groove in one face thereof and a row of ventilating apertures in the other face extending through the frame into the guide groove adjacent one end only of the latter, a slide shiftably mounted in the groove for progressively shutting off the ventilating apertures when moved in one direction, means for pressing the slide resiliently into snug engagement with the edges of the ventilating apertures in the groove, and a laterally projecting finger piece on the slide adjacent one end thereof.

5. In a ventilator, a frame having a guideway, and a slide shiftably mounted in the guideway for controlling ventilation through the frame; said slide consisting of two elongated plates arranged in spaced parallel relation to each other, end flanges on the plates arranged with the flanges on one embraced by the flanges on the other, and springs housed between the plates for resiliently separating the same.

6. In a ventilator, a frame having a guideway, and a slide shiftably mounted in the guideway for controlling ventilation through the frame; said slide consisting of two elongated plates arranged in spaced parallel relation to each other, means for preventing relative endwise movement between the plates, means carried by one of the plates for resiliently separating the same, and an elongated spring strip carried by one of the plates in resilient sealing engagement with the top and bottom of the guideway.

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