947,060.

J. R. EMSLIE.

WINDOW VENTILATOR.

APPLICATION FILED APR. 15, 1909.

Patented Jan. 18, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

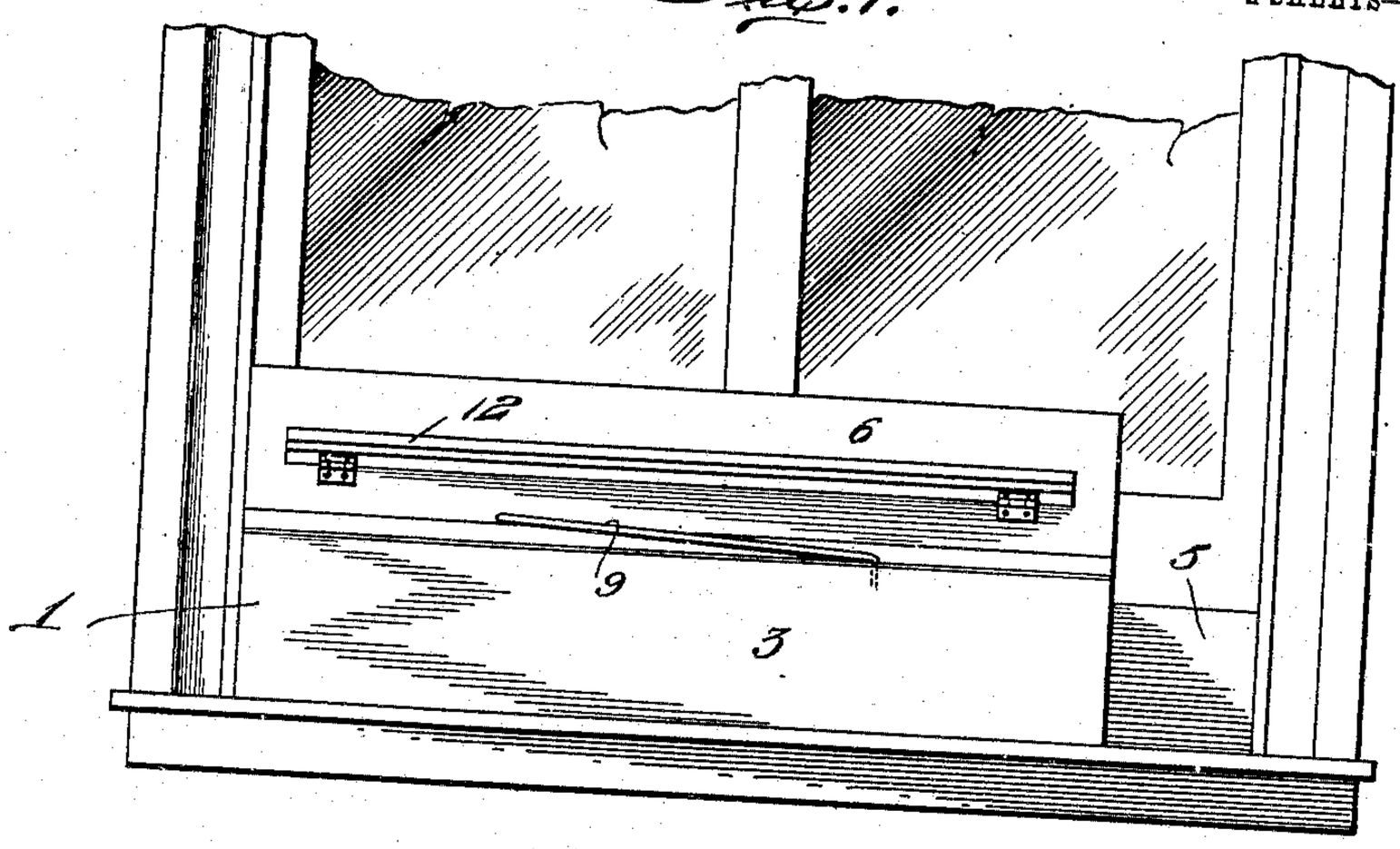
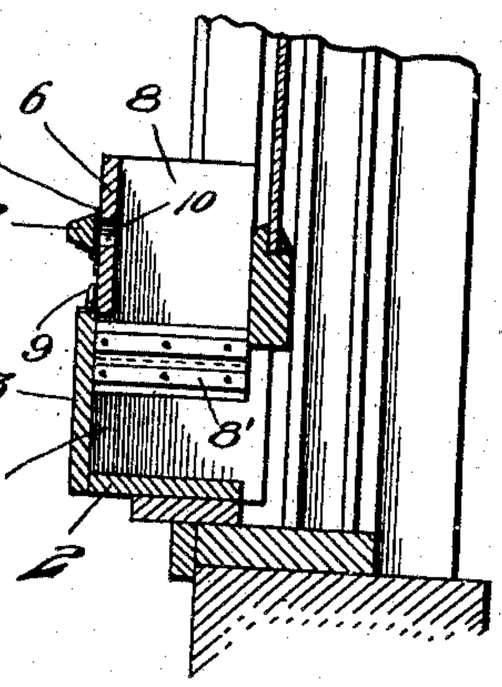


Fig. 2.

Fig. 3.



Witnesses

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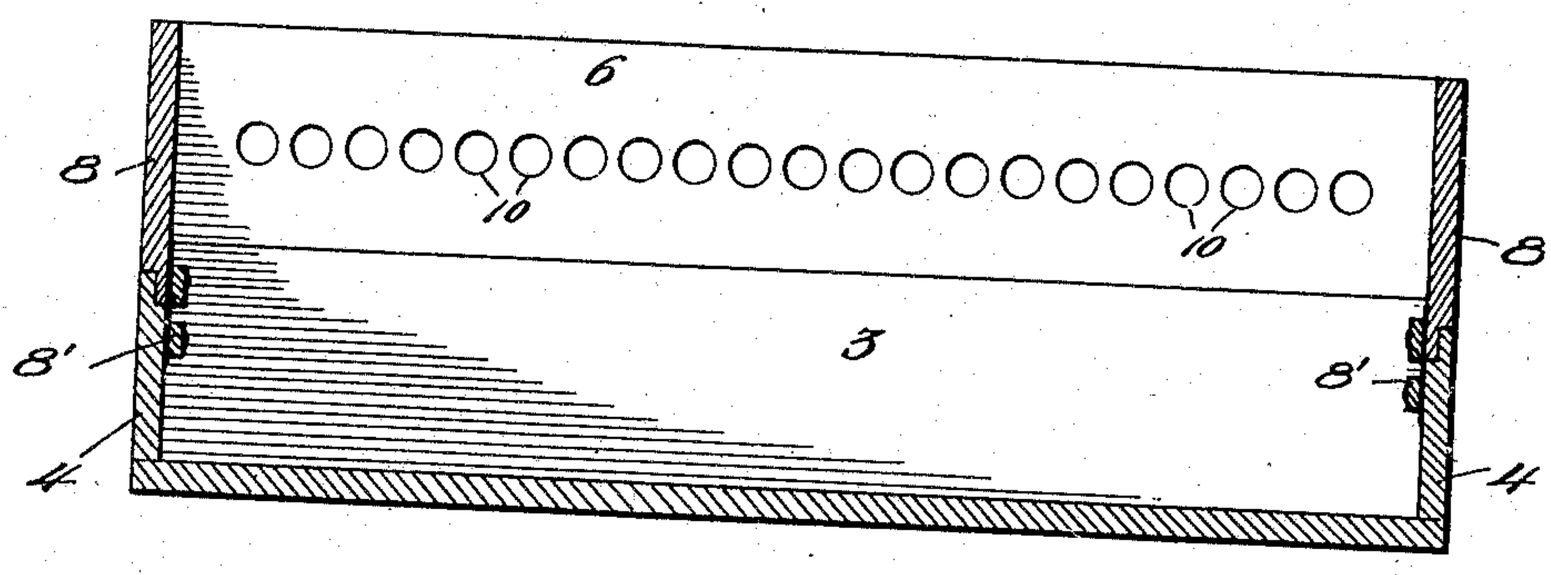
2 SHEETS—SHEET 2.

Fig. 4.



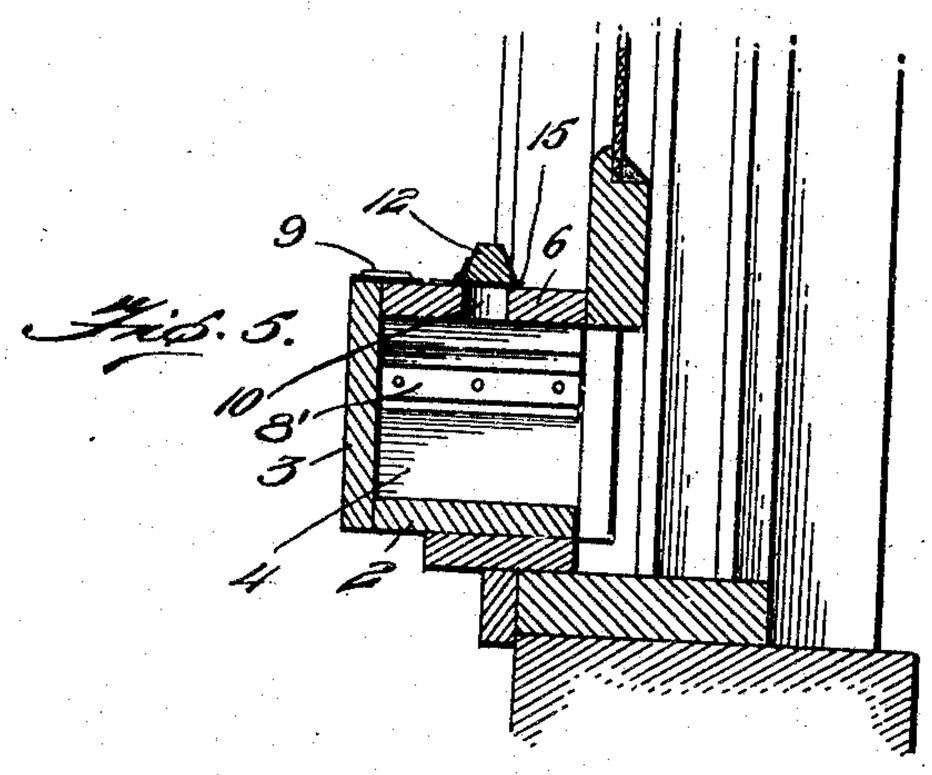
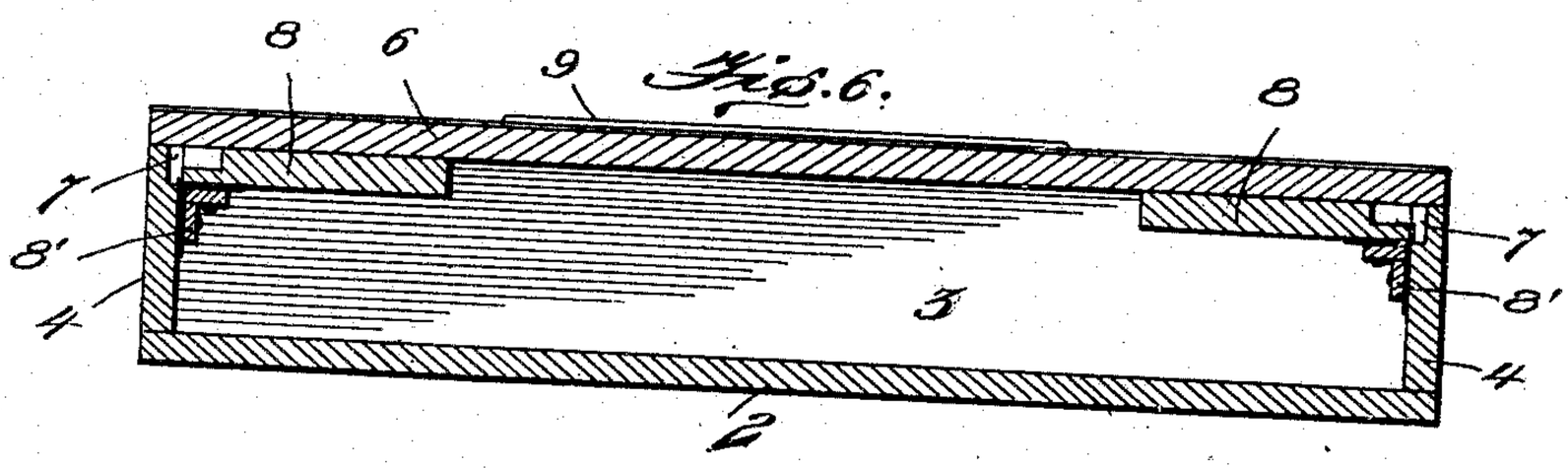


Fig. 5.

Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN R. EMSLIE, OF CHICAGO, ILLINOIS.

WINDOW-VENTILATOR.

947,060. Specification of Letters Patent. Patented Jan. 18, 1910.

Application filed April 15, 1909. Serial No. 490,050.

To all whom it may concern:

Be it known that I, JOHN R. EMSLIE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Window-Ventilators; and I do 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 relates to improvements in window ventilators.

The object of the invention is to provide a window ventilator which will be simple, strong, durable and inexpensive in construction and efficient in operation.

A further object is to provide a ventilator of this character which may be readily applied or fitted to windows of various widths and having means whereby the same may be regulated to admit more or less air as may be desired and means to prevent drafts.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings; Figure 1 is an inner side view of my improved ventilator showing the same applied to a window, Fig. 2 is a horizontal sectional view through a window frame showing a plan view of the ventilator applied thereto, Fig. 3 is a vertical cross sectional view on the line 3—3 of Fig. 2, Fig. 4 is a vertical longitudinal sectional view thereof with the parts in open position, Fig. 5 is a vertical cross sectional view similar to Fig. 3 showing the parts in closed position, and Fig. 6 is a vertical longitudinal sectional view similar to Fig. 4 showing the parts in closed or folded position.

Referring more particularly to the drawings 1 denotes the ventilator which is in the form of a rectangular oblong box open at its outer side, and having affixed bottom 2 inner side 3 and end pieces 4. Fixedly connected to the outer edge of one of the end pieces 4, is an extension board 5, which may be of any suitable length and is designed to be cut off to the desired length to fill in the space between the end of the ventilator and the adjacent side of the window frame to which the ventilator is applied. By means of extension board 5, the ventilator may be quickly made to fit windows of various widths.

Hingedly connected at its inner side edge to the upper end of the inner side of the ventilator is a top piece 6 which is adapted to be folded down onto the upper edge of the end pieces to close the ventilator. In the upper edges of the end pieces 4, on the inner sides of the same are formed rabbeted recesses 7, which are engaged by the rabbeted inner edges of end extension pieces 8, said pieces, 8, being hingedly connected at their lower edges to the inner sides of the upper ends of the end pieces whereby said extension pieces 8 are adapted to fold down into the ventilator as clearly shown in Fig. 6 of the drawings. On the inner side of the end pieces 4, are formed or arranged cleats 8′ which form stops to support the extension ends 8 when the latter are in folded or closed position.

When the ventilator is open to its full capacity the top piece 6 is thrown upwardly to a vertical position and forms an extension of the inner side piece 3, and is held in said vertical position by means of the extension end pieces 8, which are also opened upwardly on the upper ends of the end pieces as hereinbefore described. The end extensions 8, serve to prevent any side draft from passing out of the ends of the ventilator and thus directing all of the air entering the same upwardly to pass out of the open upper side of the ventilator above the top piece 6. A spring 9, is preferably secured at one end to the upper edge of the inner side piece 3, and at its opposite ends to the outer side of the top piece 6, whereby said piece may be closed when the extension ends 8 are folded inwardly. The spring 9 also applies to hold the top piece in closed or folded position.

In the top piece 6 is formed a longitudinal series of air passages or holes 10, which are adapted to be closed by a stop bar 12 which is hingedly connected at one end to the upper side of the top piece as shown and is preferably provided on its engaging face with a strip of cloth or other suitable packing material 15. The holes 10 are provided to admit a small quantity of air when the top piece is in a closed position thus providing for the regulation of the ventilation. When the stop bar 12 is in closed position over the holes 10 the entrance of the air to the room or apartment is entirely shut off.

By means of a ventilator constructed as herein shown and described, a room may be thoroughly ventilated without danger of draft and the ventilation of the room may be controlled or the admission of air entirely stopped without removing the ventilator from the window.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

Having thus described my invention, what I claim is:—

1. A window ventilator comprising a box open at its outer side, a hinged top piece adapted to be swung upwardly to open said box, end extension pieces hingedly connected to the upper edges of said fixed ends of the box adapted to be swung upwardly to hold the top piece in upward position and to prevent side and end drafts and a spring to close and hold said top piece in closed position.

2. A window ventilator comprising a box open at its outer side and having fixed bottom, inner sides and end pieces, an extension board secured to one end of said box, a hinged top piece adapted to be swung upwardly to open the ventilator, said top piece having formed therein a longitudinal series of air passages, a closing bar adapted to open and close said passages, end extension pieces hingedly connected to the upper edges of said fixed end of the box and adapted to be swung upwardly to hold the top piece in open position and to prevent side or end drafts, and a spring to close and hold said top piece in closed position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN R. EMSLIE.

Witnesses:
GEO. C. BOLTON,
W. H. OGDEN.