

C. O. MEURK.
WINDOW VENTILATOR.
APPLICATION FILED JAN. 6, 1909.

924,365.

Patented June 8, 1909.

Fig. 1.

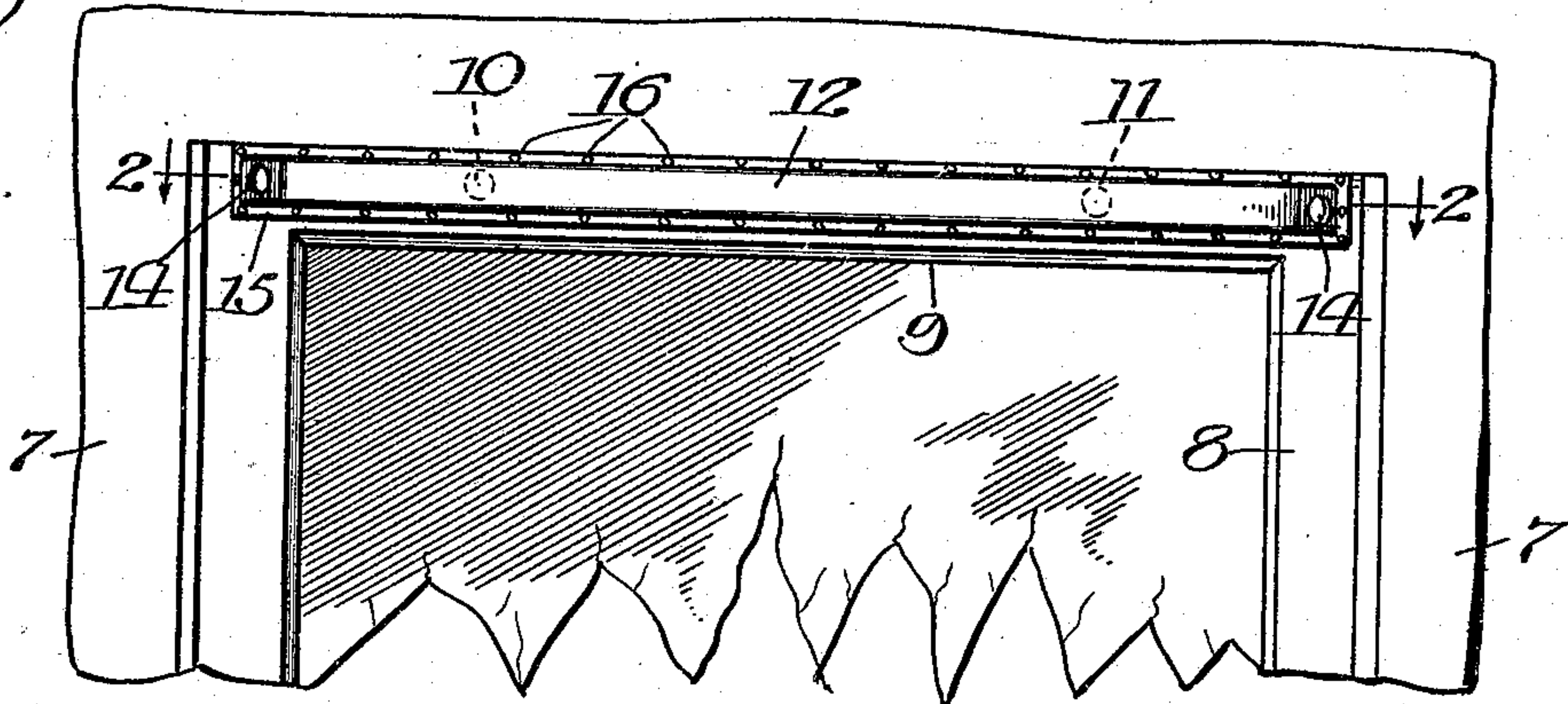


Fig. 2.

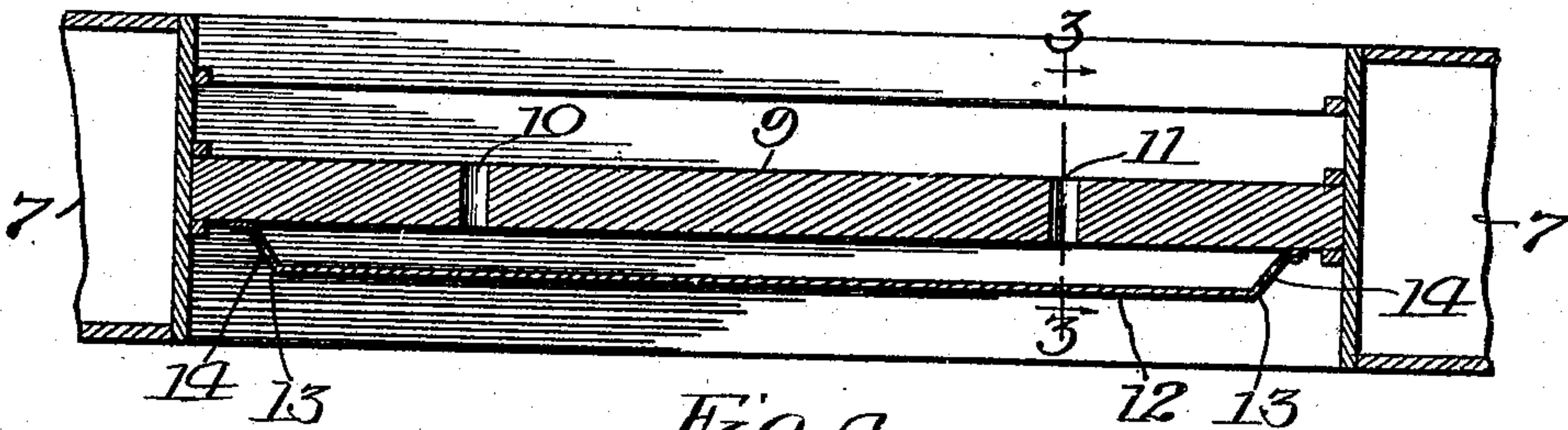


Fig. 4.

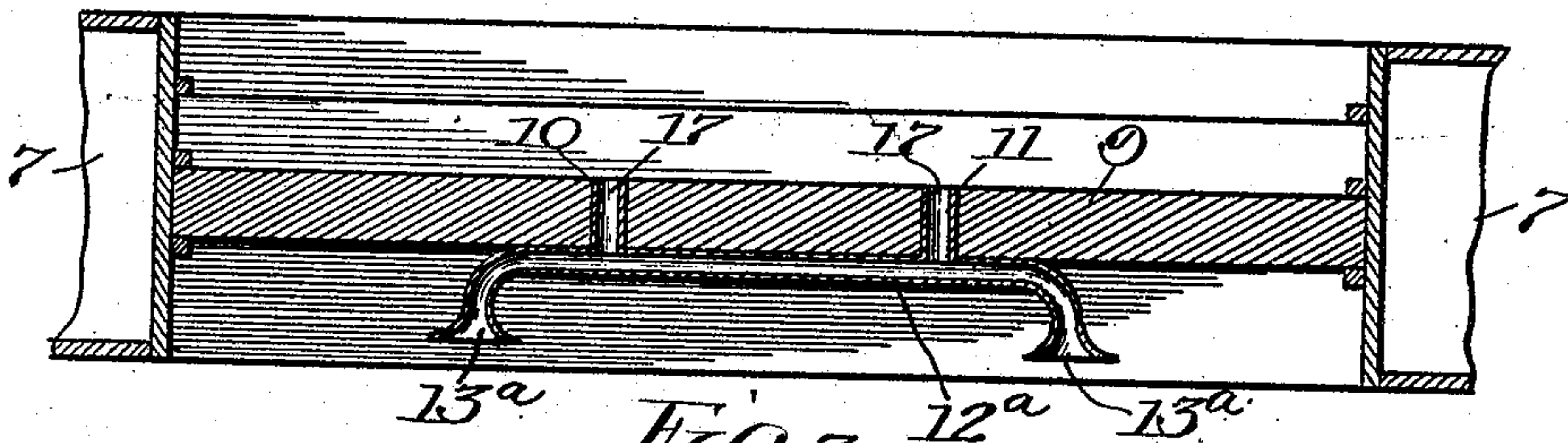
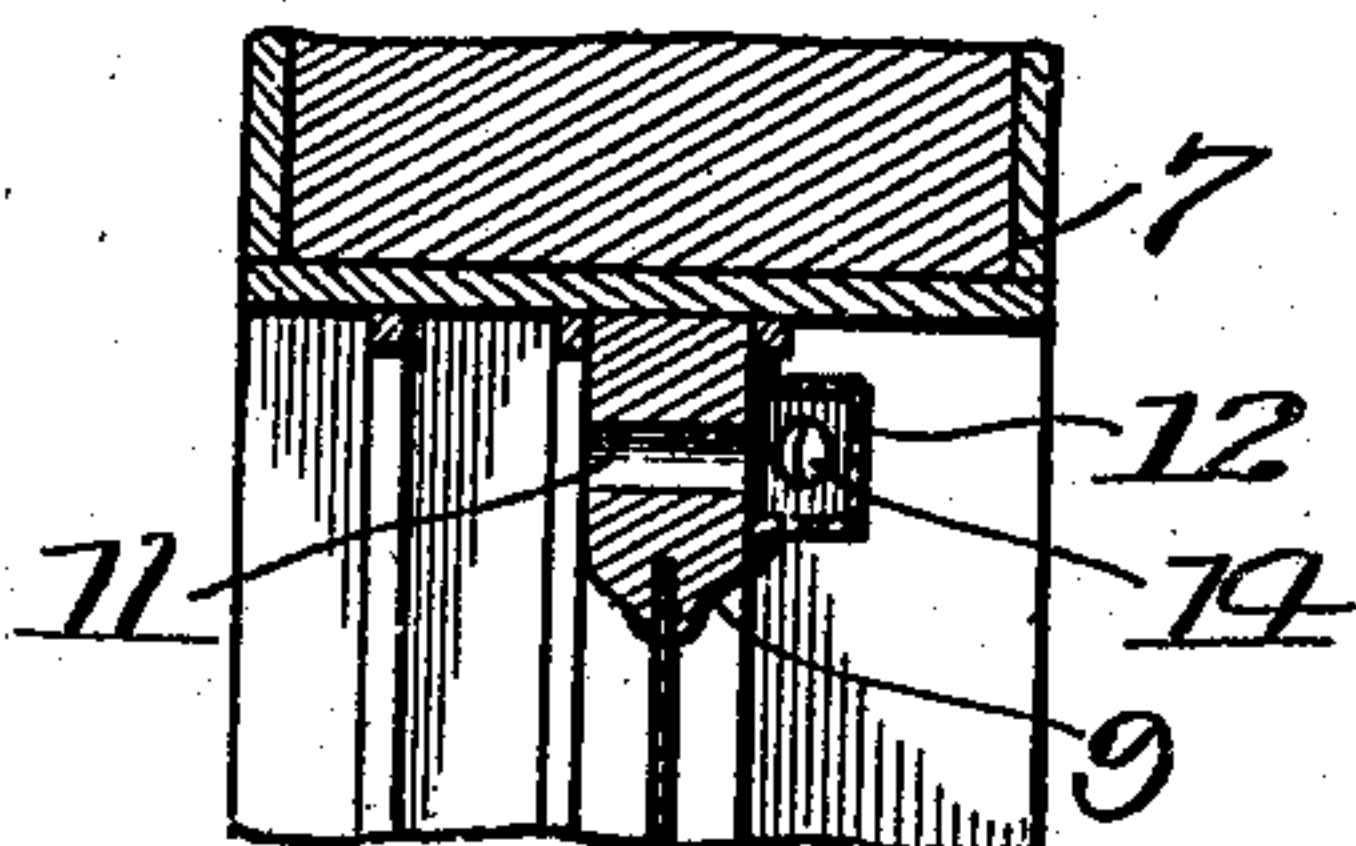


Fig. 3.



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UNITED STATES PATENT OFFICE.

CLAES OSCAR MEURK, OF CHICAGO, ILLINOIS.

WINDOW-VENTILATOR.

No. 924,365.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed January 6, 1909. Serial No. 470,906.

To all whom it may concern:

Be it known that I, CLAES OSCAR MEURK, 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, of which the following is a specification.

This invention relates to improvements in a device to be used for affording ventilation to rooms through the window-sashes thereof, and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

In Letters-Patent No. 657,949 issued to me on the 18th day of September, 1900 for improvements in window ventilators, I have disclosed a ventilator somewhat similar in its operation to that of the present invention, but in order to produce the device shown and described in the above-named patent, it is necessary to remove the sashes from the window-casings, when it is desired to install said ventilators in sashes after they have been placed in position in the casings, in order to form the longitudinally extended grooves in the sash-rails, the production of which grooves is quite difficult and expensive, as it requires considerable time and the services of a person more or less skilled in handling the tools necessary to make said grooves or channels. Furthermore, it is usually necessary to divide the sash-rails lengthwise in order to form said grooves or channels and afterward to secure the divided members together and replace them in the sash, all of which operations require much time and labor.

To overcome or obviate the above-named difficulties, as well as to provide an inexpensive, simple, efficient and durable ventilating device which can be carried in stock by merchants handling builders' supplies and which can be installed while the sashes are in place in the window-casings by an unskilled person, are the principal objects of the present invention.

Further objects and advantages will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains, to make and use the same, I will now proceed to describe it, referring to the accompanying drawing, in which—

Figure 1 is a view in side elevation of a portion of the outside of a window-casing, showing the invention embodying one form of the invention secured to the top rail of the upper sash; Fig. 2 is a plan sectional view taken on line 2—2 of Fig. 1; Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 2; and Fig. 4 is a plan sectional view taken on line 2—2 of Fig. 1, showing a modification in the construction of the ventilator.

Like numerals of reference, refer to corresponding parts throughout the different views of the drawing.

The reference numeral 7 designates a portion of the window-casing in which the sashes are mounted in the ordinary way. In the drawing the upper portion of the casing, as well as the upper portion of the upper sash 8 only is shown, and the ventilator is herein disclosed as being secured to the top rail of the upper sash, but it will be understood that it may be secured to the lower rail of the lower sash and the same results attained. The rail 9 of the sash is provided with transverse openings 10 and 11 located at suitable distances apart, and has secured to its outer surface a casing or conduit 12 which is preferably made of sheet metal and usually of a length to reach from near one end of the rail 9 to near the other end thereof. This casing or conduit is preferably rectangular in cross-section, that is, has three sides of a box-like structure, with the portion adjacent to the rail 9 open. Each end of the casing or conduit 12 is preferably beveled as at 13 and provided with an opening 14, although said ends may sometimes be formed at right angles to the outer portion of the casing, yet provided with openings as before stated. The casing 12 is provided around its perimeter with an apertured flange 15 through which openings small nails or screws 16 may be passed into the rail 9 for the purpose of securing the casing in position thereon.

Instead of forming the casing rectangular and of box-like shape in cross-section, as shown in Figs. 1, 2 and 3 of the drawing, I may employ a tubular casing or conduit 12^a provided with outturned trumpet-like ends 13^a, as is clearly shown in Fig. 4 of the drawing. In this modification the casing or conduit 12^a is located on the outer surface of the rail 9 of the sash, and is provided with two tubular extensions 17 to fit in the openings 10 and 11 in the sash-rail, which openings may be any desired distance apart.

From the foregoing and by reference to the drawing it will be readily understood and clearly seen that as the air within the room attains a different temperature from the external air it will pass through one of the openings 10 or 11, or one of the tubes 10 when the modified form shown in Fig. 4 is used, and from thence through the adjacent opening 14 or trumpet-like end 13^a into the open air, thus causing more or less of a vacuum in the main channel of the casing or conduit, or rather producing a draft there-through, which will cause fresh air to be drawn through the other external opening or trumpet-like end of the casing or conduit and out through the adjacent inner opening or extension into the room, thus producing a continuous circulation.

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

1. A ventilator consisting of a casing having its ends beveled and each end provided in said beveled portion with an opening, said casing adapted to be secured to a sash-rail or other piece, said sash-rail or piece having a plurality of openings between the ends of the casing. 25

2. A ventilator consisting of a box-like casing having an outwardly disposed and apertured flange around its perimeter and provided with beveled ends, each of said ends having an opening, the flange of said casing adapted to be secured to a sash-rail or other piece, said sash-rail or piece having a plurality of openings between the ends of the casing. 30 35

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