May 6, 1930. T. A. WEINHEIMER ET AL 1,757,886

VENTILATOR

Filed Sept. 3, 1927 2 Sheets-Sheet 1

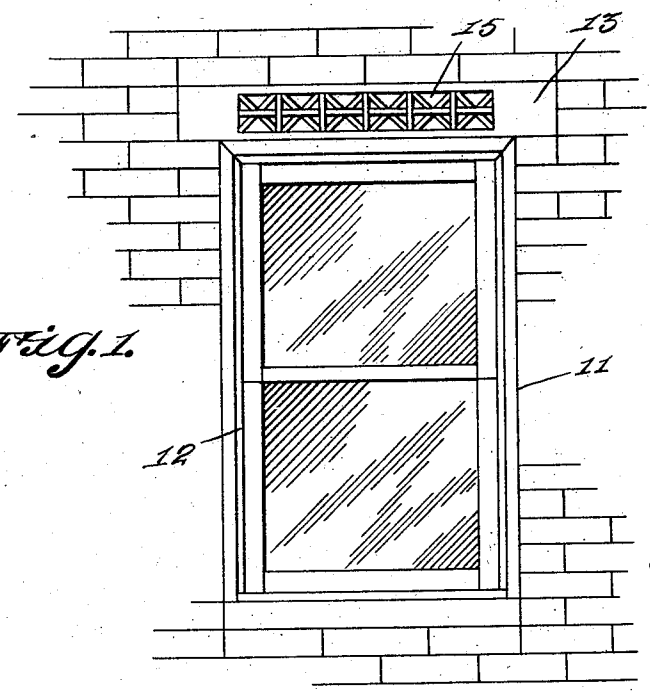


Fig. 1.

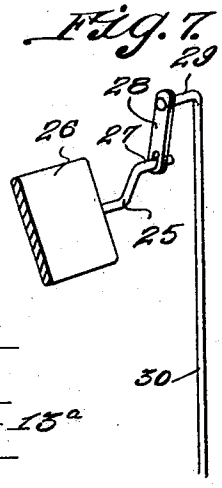


Fig. 7.

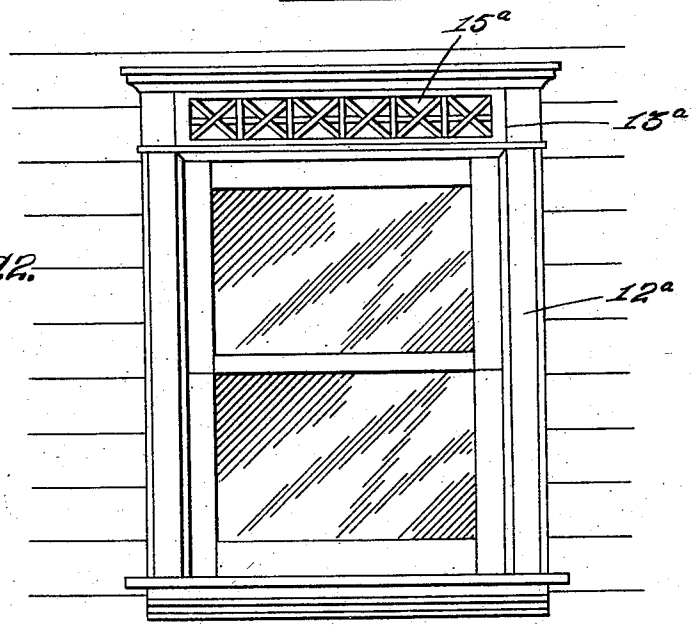


Fig. 2.

T. A. Weinheimer,
E. Hoffman,
INVENTOR
BY Victor J. Evans
ATTORNEY

May 6, 1930. T. A. WEINHEIMER ET AL 1,757,886

VENTILATOR

Filed Sept. 3, 1927 2 Sheets-Sheet 2

Fig. 3.

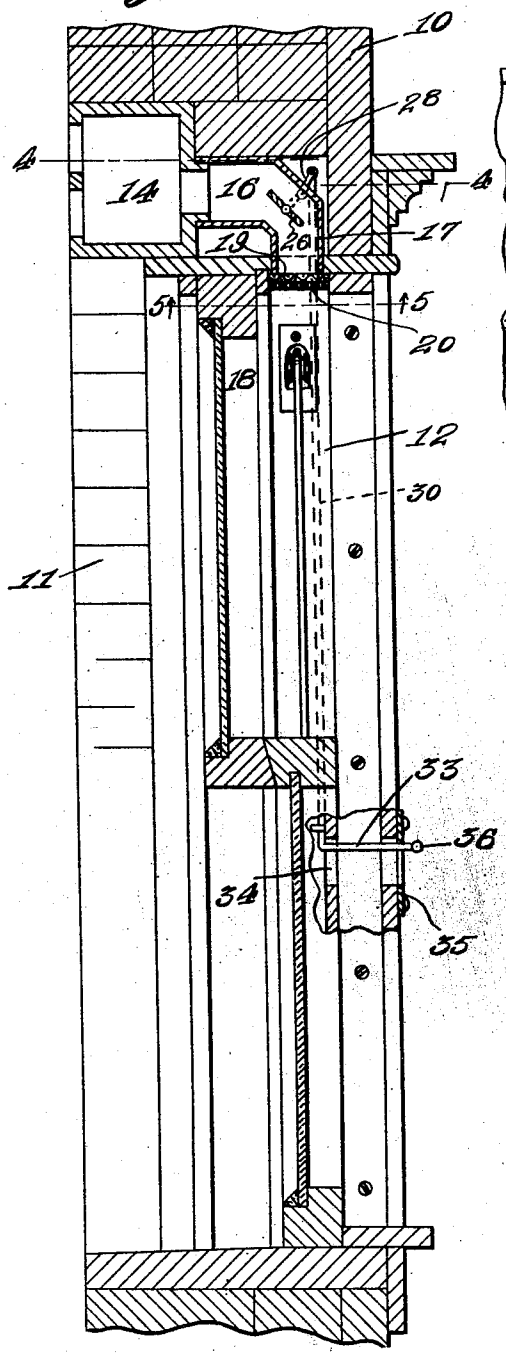


Fig. 4.

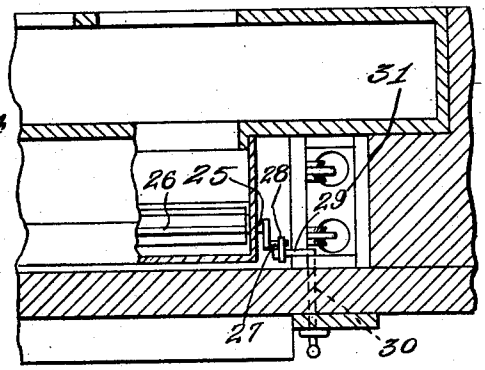


Fig. 5.

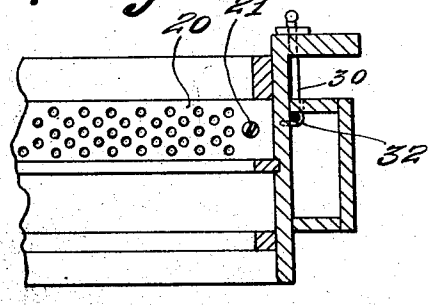
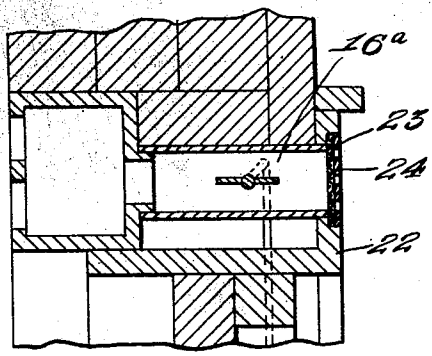


Fig. 6.



T. A. Weinheimer
E. Hoffman, INVENTOR

BY Victor J. Evans

ATTORNEY

Patented May 6, 1930

1,757,886

UNITED STATES PATENT OFFICE

THEODORE A. WEINHEIMER AND ELMER HOFFMAN, OF PITTSBURGH, PENNSYLVANIA

VENTILATOR

Application filed September 3, 1927. Serial No. 217,474.

This invention relates to improvements in ventilators for buildings, an object being to provide a ventilator which may be combined with a window casing and operated to regulate the admission of air, with the window closed.

Another object of the invention is the provision of a ventilator which may be combined with either a metal or wood window casing, with the ventilating passage either built into or made separate from the casing, the construction being such that the ventilator will be practically concealed.

Another object of the invention is the provision of means for controlling the passage of air through the ventilator, so that a room or building may be ventilated in accordance with the desire of the occupant.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation showing a fragmentary portion of a wall with the ventilator positioned above the top of a window.

Figure 2 is a like view showing the ventilator forming a part of a window casing.

Figure 3 is a vertical sectional view of the subject matter illustrated in Figure 1.

Figure 4 is an enlarged fragmentary section on the line 4—4 of Figure 3.

Figure 5 is a like view on the line 5—5 of Figure 3.

Figure 6 is a fragmentary sectional view showing a slightly different arrangement of ventilator.

Figure 7 is a fragmentary perspective view of one end of the damper or regulator and showing its connection with the operating rod.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates a portion of the wall of a building within which is provided a window opening 11 having a window casing 12 positioned therein. As shown in Figure 1 of the drawings, this casing is located within a brick wall and extending along the top of the casing is a panel 13. This panel takes the place of the usual stone or brick heading at the top of the window and forms the front wall of an air inlet chamber 14. The panel is provided with openings 15 which may be of an ornamental character and which serve to admit air into the chamber 14. The outer face of the panel is flush with the outer face of the wall. If desired, the panel may form a portion of the window casing as shown at 13^a in Figure 2, the casing which is made of wood is indicated at 12^a in the said figure. The panel 13^a is also provided with openings 15^a of an ornamental character so as to add to the attractiveness of the window casing.

Extending inwardly from and communicating with the chamber 14 is one end of a passage 16. This passage extends inwardly and downwardly at an angle as indicated at 17, its inner end opening through the top portion of the window casing as shown at 18. The passage 16 is relatively narrow and its open end is covered by a preferably copper screen 19 which is held in place by a perforated plate 20. The plate is removably secured to the window casing by screws or like fastening devices as shown at 21, so that by removing the plate 20 the screen may also be removed and access had to the interior of the passage for the purpose of removing any accumulation of dirt or trash.

If desired, the passage may extend directly inward as shown at 16^a in Figure 6 of the drawings, its inner end opening through the trim 22 of the window casing and being closed by a screen 23 and a removable perforated plate 24. In this form of the invention the air has a direct passage from the outside of the building to the inside, while in the form of the invention shown in Figure 3, the air travels inward and downward and enters through the upper portion of the window casing. In this last referred to form of the invention, the plate 20 is practically hidden so that it will be scarcely noticed by persons within the building.

Pivotally mounted within the passage 16 as shown at 25 is a damper 26 which may be

moved to regulate the passage of air. For this purpose, the pivot 25 has extending therefrom a crank arm 27 which is connected by a link 28 with the right-angled end 29 of a rod 30. This rod extends downward through one of the weight boxes 31 of the window casing and is guided for vertical movement therein by means of guides 32. The lower end of the rod is provided with a right-angular extension 33 which projects through openings 34 provided in the casing, a slotted plate 35 being secured around this slot upon the trim. A knob or finger piece 36 is carried by the extension 33.

It will be apparent from the foregoing description and accompanying drawings that the ventilator may be used irrespective of the closed position of the window and the amount of air admitted through the ventilator conveniently regulated by the use of the extension 33.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:

A ventilator comprising in combination with a window casing, an air conduit located adjacent to and extending transversely of the casing, a relatively large air inlet chamber communicating with the inner end of the conduit and opening at the inside of the casing, a damper mounted for pivotal movement in the conduit, a longitudinally movable operating rod mounted within the casing, means operatively connecting the damper and rod, and a right angularly disposed handle carried by the rod and extending through the window casing.

In testimony whereof we affix our signatures.

THEODORE A. WEINHEIMER.
ELMER HOFFMAN.