

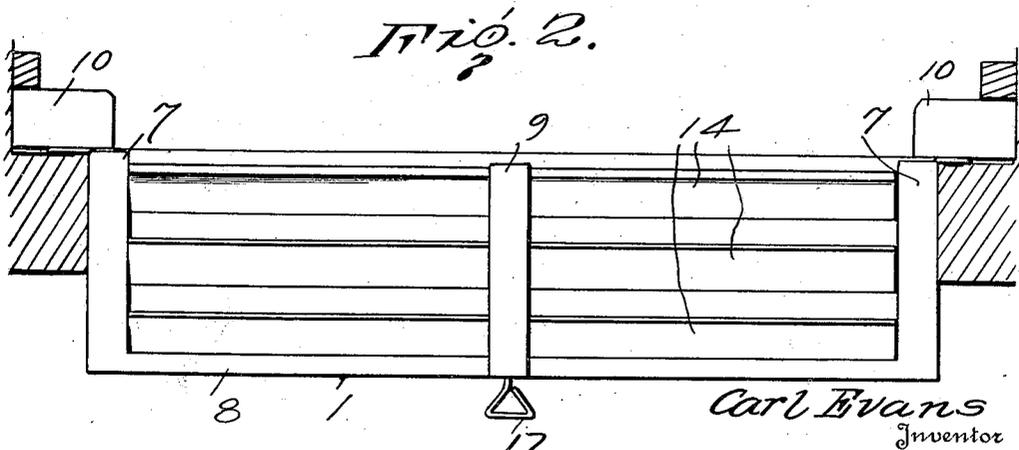
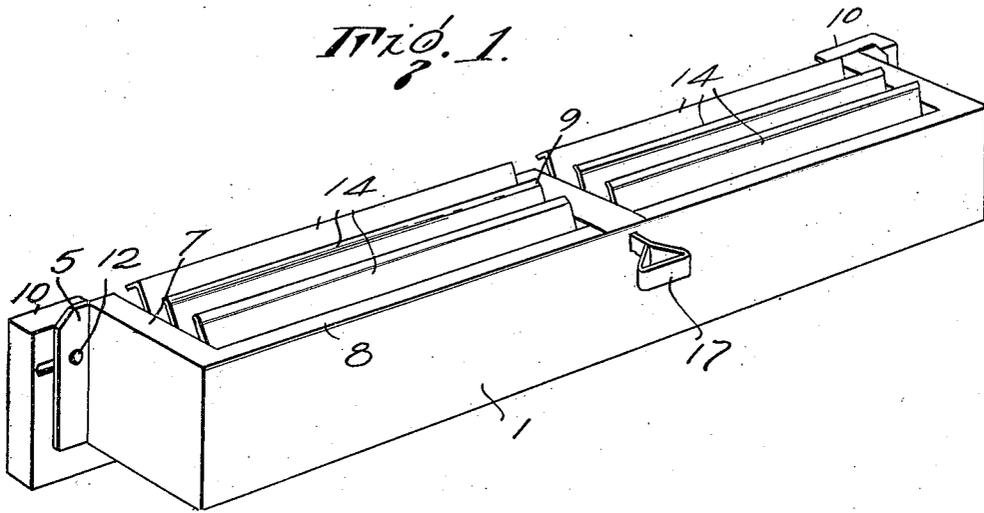
C. EVANS.
VENTILATOR.

APPLICATION FILED MAR. 22, 1917. RENEWED OCT. 18, 1919.

1,352,257.

Patented Sept. 7, 1920.

2 SHEETS—SHEET 1.



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Inventor

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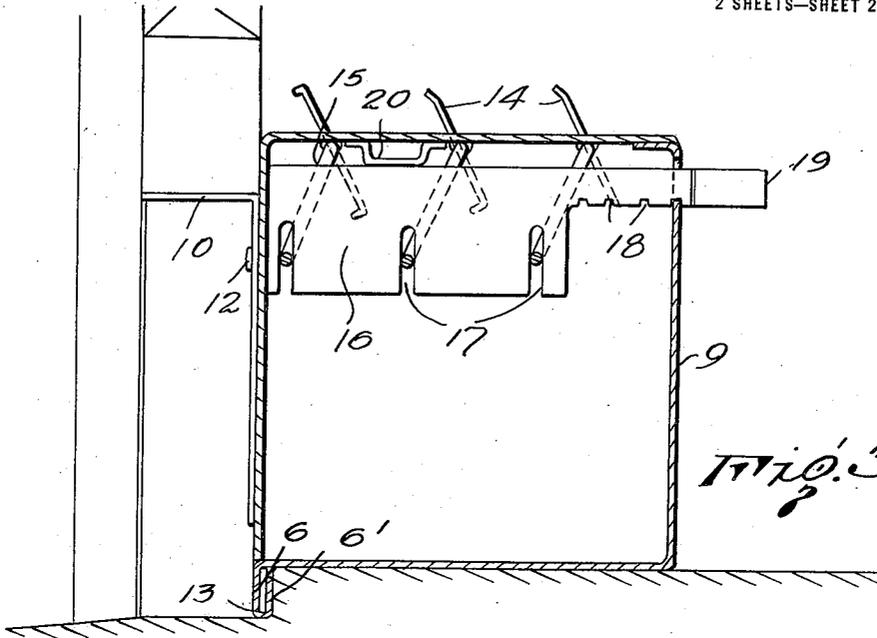


Fig. 3.

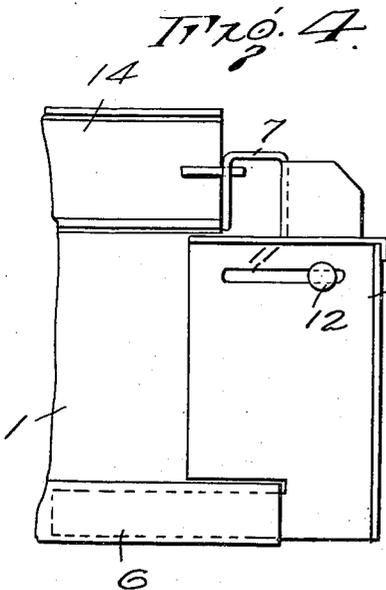


Fig. 4.

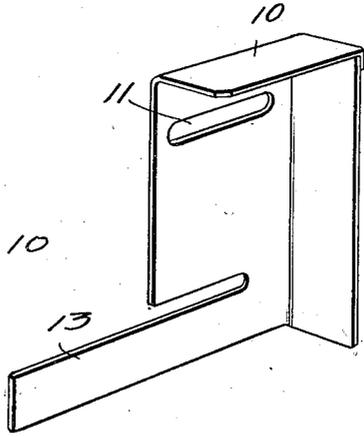


Fig. 5.

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UNITED STATES PATENT OFFICE.

CARL EVANS, OF BATTLE CREEK, MICHIGAN.

VENTILATOR.

1,352,257.

Specification of Letters Patent.

Patented Sept. 7, 1920.

Application filed March 22, 1917, Serial No. 156,703. Renewed October 18, 1919. Serial No. 331,754.

To all whom it may concern:

Be it known that I, CARL EVANS, a citizen of the United States, and resident of Battle Creek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to ventilators and has more especial reference to an improved window ventilator.

The invention has for its dominant object to provide a window ventilator particularly adapted for use in connection with window frames and arranged directly beneath the slidable sash, whereby, air will be admitted into a room or building for ventilating purposes.

It is a more specific object of the invention to provide an improved housing for the ventilator having anchoring means on its opposite ends engageable with the window frame, thereby allowing the same to be attached to the frame without alteration thereto.

Another and equally important object of the invention is to provide the ventilator construction with air inlet regulating means, whereby the ingress of air may be controlled by the user.

Among other aims and objects of the invention may be recited, the provision of a device of the character mentioned with a view to compactness, and in which the number of parts are few, the construction simple, the cost of production small, and efficiency and operation high.

All of the foregoing, together with additional advantageous details and arrangements of parts of the preferred embodiment of my invention will be clear from the specific description hereinafter contained, when read in connection with the accompanying drawings forming parts hereof, wherein said embodiment of the invention is illustrated for the purpose of imparting a full understanding of the present improvements.

In the drawings:

Figure 1 is a perspective of the improved ventilator;

Fig. 2 is a top plan thereof showing the same engaged with a window frame;

Fig. 3 is a vertical transverse section therethrough;

Fig. 4 is a fragmentary end elevation

showing the mounting of the ventilator anchoring means; and

Fig. 5 is a detail in perspective of one of the anchoring means.

Similar characters of reference are employed in all of the above described views to indicate corresponding parts.

Referring now more specifically to the several figures of the said drawings, there is provided a substantially rectangular housing designated 1, the front of which is open. Laterally offset flanges 5 and 6 are formed upon the housing adjacent the open front wall thereof and as will be noted, the flange 6 is provided with an upwardly bent portion 6', the said portion being arranged in spaced relation to the body of the flange, thus, providing an efficient way, the purpose of which will be subsequently apparent. The top of the housing 1 is substantially open and has formed upon its marginal edges laterally projecting flanges 7 and 8, the flanges 7 being provided with depending portions which are adapted to serve as bearings for the air regulating means, which will be subsequently described. Intermediate the ends of the housing a partition 9 is arranged.

To the flanges 5, anchoring means comprising sheet metal elements 10 having horizontal slots 11 formed therein are secured through the medium of rivets 12 or like fastening devices passing through the said flanges into engagement with the horizontal slots 11. Fingers 13 are formed upon the lower portions of the anchoring element 11 and are slidably received within the ways formed by the upturned portion of the flange 6 as designated by the reference character 6'. Obviously, by so mounting the anchoring element upon the flanged ends of the housing construction, the same may be adjusted laterally thereof in order that the ventilator may be adapted to window frames varying in width.

A plurality of slats 14 are extended longitudinally of the housing top and have their opposite extremities journaled in the depending portions of the flanges 7 and the longitudinally alined openings formed in the partition 9. The bearing pintles as engaged in the openings formed in the partition 9 may be and preferably are formed of wire and are bent intermediate their ends to provide crank portions 15. A bar 16 having a plurality of vertically disposed

slots 17 formed therein is slidably arranged within the partition 9, the outer extremity thereof being reduced and provided with a series of notches 18 engageable over the lower portion of the opening in the rear wall of the housing through which the said reduced portion extends, and having a handle 19 formed on its outer end. The vertically disposed slots are arranged over the crank portions 15 of the slot bearing pintles and by shifting the positioning of the bar 16 may be moved to cause relative adjustment of the said slats. To prevent undue vertical movement of the bar a projection 20 is arranged upon the under side of the upper or top wall of the partition 9 and normally bears upon the adjacent marginal edge of the bar.

In operation, the ventilator housing 1 is arranged upon the sill of the window frame, the flange 6 abutting the usual shoulder as formed thereon, thus, preventing undue lateral movement or displacement thereof. The slidable sash is now moved into lower position whereupon the same will be engaged with the upper portions of the anchoring elements 10, thus, locking the housing in position and allowing sufficient space to permit the ingress of air into the housing. To regulate the flow of air through the housing into the room or building, the relative positioning of the pivoted slats may be varied by shifting the bar 16 to cause oscillation of the crank portion 15. Should it be necessary, the anchoring elements 10 may

be adjusted laterally of the housing 1 to permit the firm engagement of the same with the window frame. In this connection, it is to be understood that various forms of connections may be employed in lieu of the rivets 12 for locking the anchoring elements 10 in adjusted positions.

I claim:

1. A ventilator, including a housing having an open front wall and flanges formed on the ends and bottoms thereof, anchoring means adjustably mounted on said end flanges, a partition arranged intermediate the ends of the housing, a plurality of longitudinally disposed slats rotatably mounted in the housing ends and said partition, cranks engaged with the adjacent ends of said slats, and an adjustable bar movable in the partition and loosely engaged with said crank for causing movement of the slats.

2. A ventilator including a housing having an open front wall, anchoring means on the ends thereof, a plurality of slats rotatably mounted in the top of said casing, cranks engaged with the adjacent ends of the slats, and a bar disposed transversely of the intermediate portion of the casing and formed with a series of recesses loosely engaged over said crank portions and having its free end extending through one side wall of the casing.

In testimony whereof, I affix my signature hereto.

CARL EVANS.