

Feb. 21, 1928.

1,659,880

S. KAUFFMAN

AIR INLET

Filed Sept. 22, 1926

Fig. 1 -

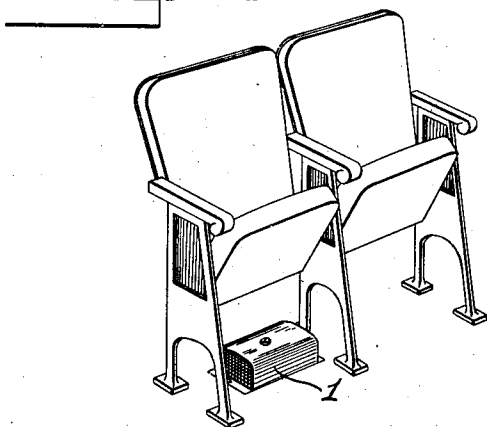


Fig. 4 -

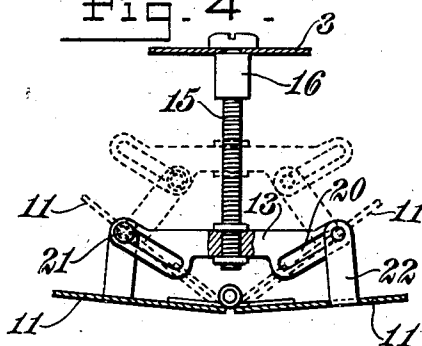


Fig. 2 -

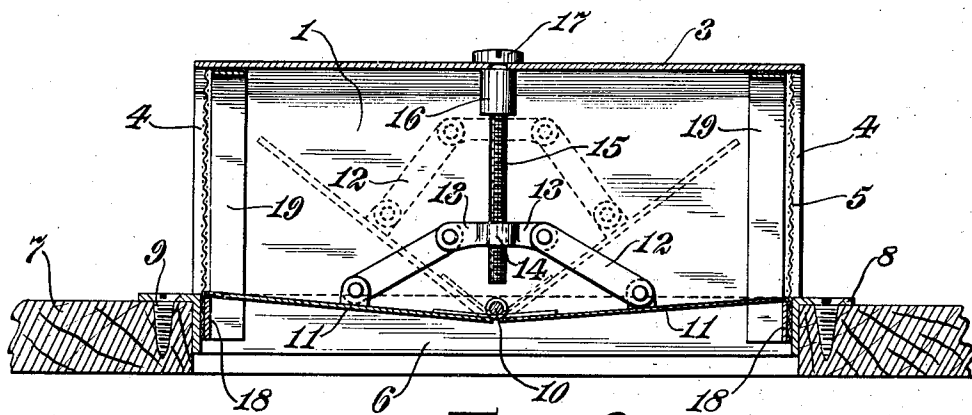
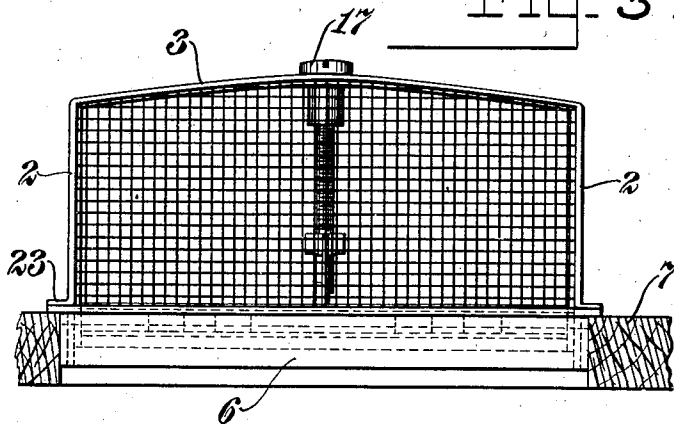


Fig. 3 -



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UNITED STATES PATENT OFFICE.

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AIR INLET.

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This invention pertains to ventilators and more particularly to ventilators of the type used in theatres and auditoriums and placed beneath the seats for dispensing warm or cool air.

One of the objects of this invention is to provide a ventilator of simple and rugged construction and which may be easily adjusted to regulate the passage of air there-
10 through.

Another object is to provide such a ventilator which may be adjusted and whose adjustment is not easily tampered with.

Further objects will appear from the following description taken in connection with the accompanying drawing in which:
15

Figure 1 is a perspective view illustrating the manner in which the ventilator may be placed beneath the seats in a theatre;

20 Figure 2 is a longitudinal section of a ventilator embodying this invention;

Figure 3 is an end elevation of the same, and

25 Figure 4 is a detail illustrating another embodiment of this invention.

Referring to the accompanying drawing 1 designates a casing which may be formed with vertical sides 2 and an arched roof 3. The ends 4 of the casing are open except
30 that a screen 5 of wire mesh or similar material is mounted therein to prevent the entrance into the ventilator of scraps of paper and similar litter which ordinarily accumulates on the floor of a public place.

35 The bottom of the casing 1 is open and may be provided with a marginal flange 6 adapted to fit into an opening in the floor 7. Side or end flanges 8 may be arranged to rest on top of the floor and provided
40 with means such as screws 9, for fastening the same to the floor. The sides 2 may be provided with flanges 23 welded or otherwise secured to the flange 6.

At the middle of the bottom opening of
45 the casing a pivot bar 10 spans the opening and has hinged thereto a pair of dampers 11. The dampers 11 are connected by links 12 to the wings 13 of a wing nut 14 threaded on to a screw 15 swiveled in a lug 16 on
50 the roof of the casing and extending downwardly therefrom. The screw 15 is provided with a slotted head 17 or similar element adapted for operation by a suitable tool.

When the dampers 11 are in the position
55 shown in the full lines in Figure 2 the ventilator is closed and the passage of air there-

through is cut off. By inserting a screw driver or similar tool into the head 17 the screw 15 may be operated so as to raise the nut 14 and lift the dampers. The dampers
60 are shown in open position in dotted lines in Figure 2. The dampers may be set in any intermediate position between fully open position and fully closed. Thus the flow of air through the ventilator may be controlled
65 and, therefore, the distribution of air to different parts of the auditorium may be regulated. When the dampers 11 are in closed position they may be arranged to rest upon
70 internal flanges 18 mounted in the casing.

In the embodiment of Figure 4, the nut 13 has its wings extended, and provided at the ends of the wings with inclined cam slots 20. Each of these slots is slidably engaged by a headed pin 21 on a bracket
75 22 fixed to the upper side of one of the dampers 11. When the nut is raised by the screw 15 the dampers will be raised thereby, the pins 21 sliding along the slots 20, as
80 shown in Figure 4.

The end screens 5 may be mounted in any suitable frames 19 which frames are then mounted in the ends of the casing.

It will be seen, therefore, that this invention provides a simple and effective ventila-
85 tor which, having its dampers pivoted at the middle of the casing distributes the air in two directions therefrom. The dampers may be accurately adjusted to any desired opening and both dampers are adjusted
90 simultaneously to the same opening. The adjustment requires the use of a tool fitting the head 17 so that such adjustment cannot easily be tampered with except by a proper
95 attendant.

It is obvious that various changes may be made in the details of construction without departing from the spirit of this invention; it is to be understood, therefore, that this invention is not to be limited to the
100 specific details shown and described.

Having thus described the invention what is claimed is:

1. A ventilator, comprising, a casing having an open bottom adapted to fit a floor opening and having open ends, a pair of dampers pivoted in said casing at the middle of the bottom thereof, and a single means for simultaneously adjusting said dampers on
11 said pivot.

2. A ventilator, comprising, a casing having an open bottom adapted to fit a floor

opening and having open ends, a pair of dampers pivoted in said casing at the middle of the bottom thereof, and means operable by a tool for simultaneously adjusting said dampers on said pivot.

3. A ventilator, comprising, a casing having an open bottom adapted to fit a floor opening and having open ends, a pair of dampers pivoted in said casing at the middle of the bottom thereof, a screw operable from outside of said casing, a nut for said screw, and connections from said nut to said dampers adapted for simultaneously adjusting said dampers on said pivot.

4. A ventilator, comprising, a casing having an open bottom adapted to fit a floor opening and having open ends, a pair of dampers pivoted in said casing at the middle of the bottom thereof, a screw operable from outside of said casing, a nut for said screw having wings, means connecting said wings to said dampers, constructed and arranged for simultaneously adjusting said dampers on said pivot.

In testimony whereof I affix my signature this 4th day of December, 1925.

SAMUEL KAUFFMAN.