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2,529,462

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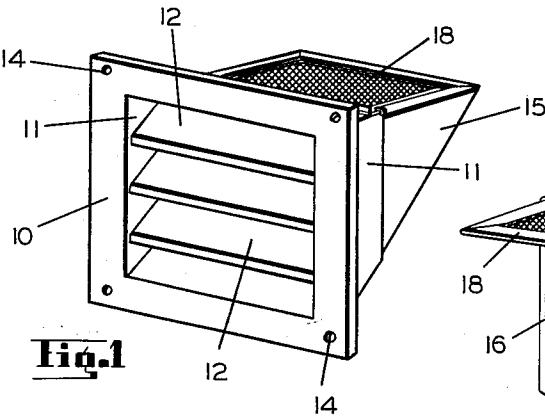


Fig. 1

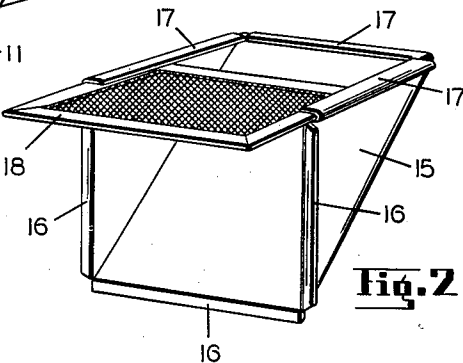


Fig. 2

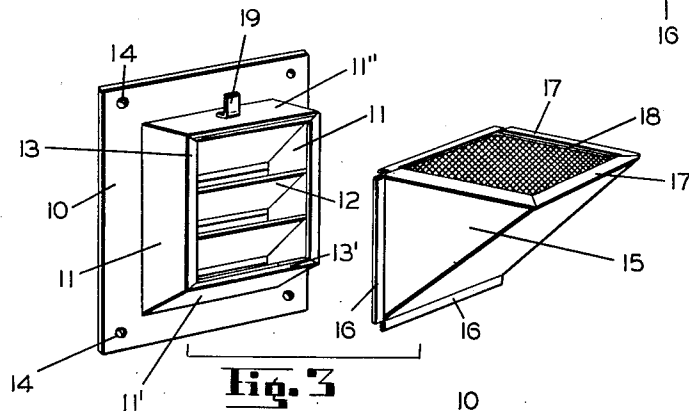


Fig. 3

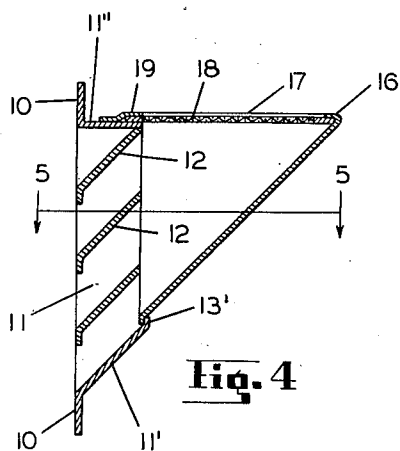


Fig. 4

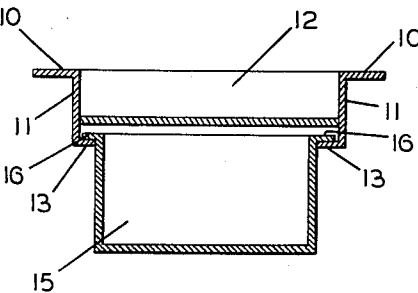


Fig. 5

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4 Claims. (Cl. 98—29)

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My invention relates to ventilators and more particularly to a stationary type of ventilator for use in buildings or the like.

An object of my invention is to provide a device that may be permanently installed in the outer wall of a building or enclosure and arranged in a manner to exclude the elements, and filter or screen the air as it enters or leaves the enclosure.

Another object of my invention is to provide a device that may be easily assembled and installed without the use of special tools.

Another object of my invention is to provide a device that is arranged to lock into a fixed position when assembled.

A still further object of my invention is to provide a device that is easily constructed, economical to manufacture, efficient and practical for the purpose for which it is intended.

It is manifest to anyone familiar with the use of permanently installed ventilators that they are quite frequently the cause of snow, rain, insects or the like entering the enclosure. With the device described, illustrated and claimed, these objectionable features are entirely eliminated. The device is simple in construction, may be easily installed and made accessible for cleaning purposes.

Other and further objects of my invention will become more apparent as the description proceeds and when taken in conjunction with the drawings in which

Figure 1 is a perspective view of the entire assembled device.

Figure 2 is a perspective view of the angularly disposed housing forming a screening portion for the device.

Figure 3 is a composite perspective rear view of the component parts constituting the device.

Figure 4 is a vertical cross-sectional view of the assembled device, and

Figure 5 is a horizontal cross-sectional view of the device taken at the line 5—5 in Figure 4.

Similar characters of reference indicate corresponding parts throughout the several views, and referring now to the same, the character 10 shows a face plate for engagement with the outer surface of a wall having an aperture through its center and having inwardly disposed members 11, 11' and 11'', thereby forming a frame for the support of a plurality of louvers or angularly disposed horizontal blades 12. These louver blades may be mounted in a fixed position, or may be pivotally mounted for adjustment. The lower frame section 11. is shown angularly dis-

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posed to conform with the angle of the louver blades 12.

The side frame members 11 are equipped with inwardly extending flange members 13 and the lower frame member 11' is provided with an inwardly extending flange member 13'. The face plate 10 is shown as having a plurality of apertures 14 therein, in which screws are inserted for attaching the plate 10 to the outer surface of a wall or the like, and when the plate 10 is placed in a fixed position, the frame formed by the walls 11, 11' and 11'' extend inward for receiving an angularly disposed housing shown as 15, which has outwardly projecting members 16 on the sides and bottom for engagement with the flange members 13 and 13' of the frame, and inwardly extending channel members 17 at the top for the slidable support of a screen or filtering member 18 in the form of a removable frame equipped with wire screen or the like.

The upper portion 11'' of the frame structure supports a retaining member 19 arranged to retain the forward end of the filtering frame member 18 when the device is in an assembled position as shown in Figures 1 and 4.

Obviously, the front frame 10 is attached from the outside by means of screws through the apertures 14, and the entire frame structure consisting of a wall 11, 11' and 11'' extends inward, permitting the housing 15 to be slidably brought into position and held by means of the inwardly extending flange members 13 and the outwardly projecting members 16, after the frame 18 has been slidably inserted into the channel 17, at which time the retaining member 19, which is in a vertical position as shown in Figure 3, is brought down into a horizontal position as shown in Figure 4, thereby locking the housing 15 into position. To remove the housing 15 with the filtering frame 10 in position, it is only necessary to bend the member 19 upward and raise the entire housing 15 out of engagement with the frame members.

In the chosen embodiments of my invention, there are many features not heretofore disclosed in the prior art, and although I have shown a specific construction, I am fully cognizant of the fact that many changes in the form and configuration of the engaging channels and flanges as well as the shape and contour of the entire device may be made, without affecting its operativeness, and I reserve the right to make such changes as I may deem convenient or necessary without departing from the spirit of my invention or the scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent in the United States is:

1. A device of the character described comprising a face plate provided with an opening therein, flanges projecting from the inner edge of said opening of said face plate forming a frame, a plurality of louvres angularly disposed within said flanges, a housing, said housing formed of two vertical side walls and a bottom member inclined upwardly relative to the face plate, means for engaging said housing at its forward end with said frame, a filtering means, and channel members formed at the top of the vertical side walls for the slidable engagement of said filtering means.

2. A device of the character described comprising in combination a face plate provided with a central opening therein, said face plate being vertically disposed, flanges projecting outward from the opening in said face plate forming a frame, a plurality of louvres angularly disposed within said frame, a housing, said housing provided with an open forward end and having two vertical side walls and a bottom member inclined upwardly relative to the face plate, means for engaging said housing at its forward open end with said frame, a filtering member and horizontal channel members formed on the top of vertical side walls of said housing for slidably engaging said filtering means.

3. A device of the character described comprising a face plate having a central opening therein, said face plate vertically disposed, flanges forming a frame projecting from the inner edges of the opening in said face plate and forming a part thereof, a plurality of louvres angularly disposed within said frame, a housing, said housing having its bottom upwardly inclined relative to the face plate and

open at its forward end, a pair of vertical side walls, means in the form of flanges on said housing for slidably engaging said housing at its forward end with said frame, a filtering means and horizontal channels on the upper edges of said vertical side walls for the slidable engagement of said filtering means.

4. A device of the character described comprising a vertical face plate having a central aperture, flanges projecting outward from said face plate, said frame consisting of a top portion, a bottom portion and two side portions, said bottom portion angularly disposed, said side and bottom frame portions provided with flanges extending inward, a plurality of louvres disposed within said frame, said louvres supported by the inside of said frame and mounted thereto, a housing, said housing having vertical side walls and being upwardly inclined at the bottom, flanges on the side and bottom walls of said housing for slidable engagement with the flanges on said frame, a filtering means, said housing having the top of its vertical side walls provided with horizontal channels for slidably supporting said filtering means.

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