Nov. 29, 1927.

1,650,918

L. WHITESEL

VENTILATOR

Filed Dec. 30, 1926

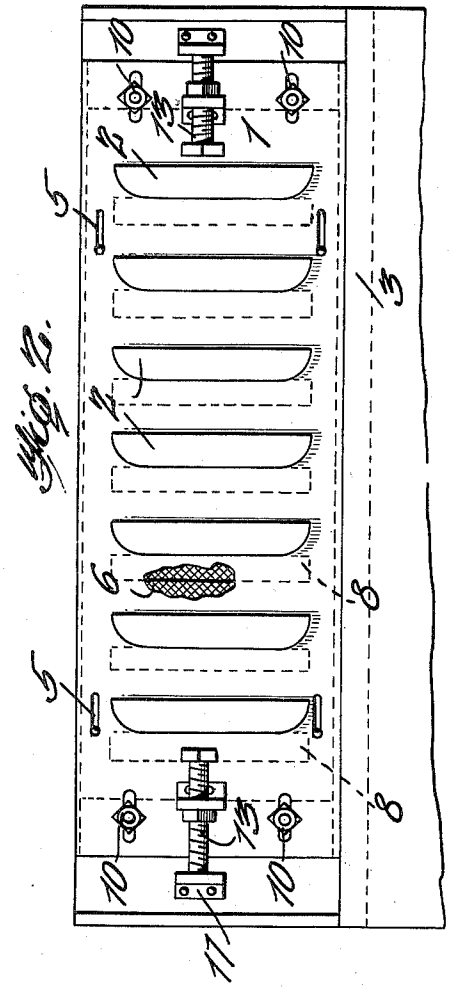


Fig. 2.

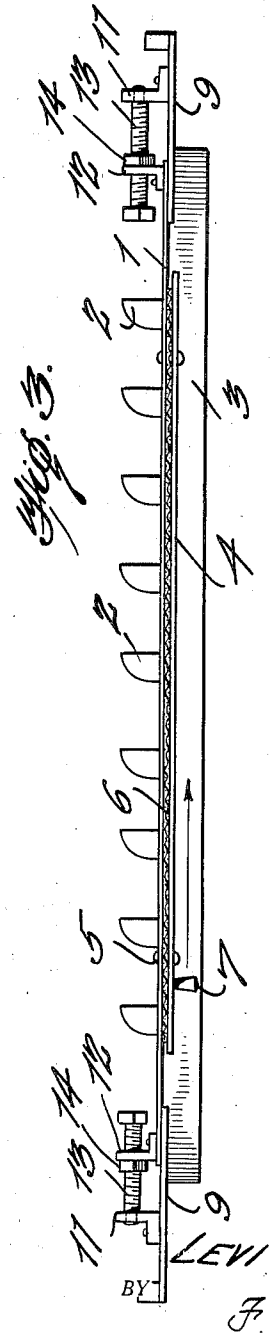


Fig. 3.

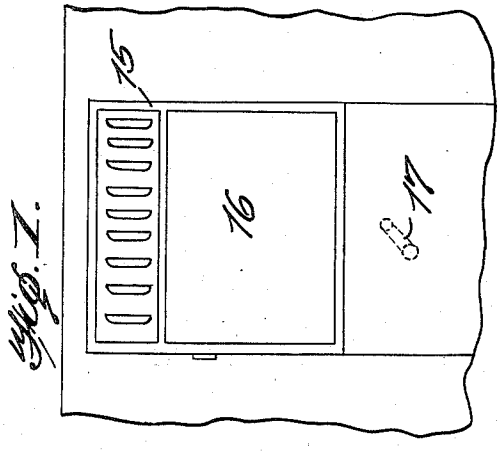


Fig. 1.

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UNITED STATES PATENT OFFICE.

LEVI WHITESEL, OF SEATTLE, WASHINGTON.

VENTILATOR.

Application filed December 30, 1926. Serial No. 158,030.

This invention is directed to an improvement in ventilators designed particularly for use with automobiles of the closed type, with the ventilator designed to fit above the movable glass panels of the doors and the like to afford ventilation while at the same time excluding the elements.

The main object of the present invention is the provision of a ventilator which may be arranged to cooperate with the usual glass panel guides in the door and other parts and which is adjustable to control the admission of air while at the same time so interfitting with the glass and door frame as to exclude the possibility of the entrance of the elements while the ventilator is in use.

A further object of the invention is the provision of means whereby the ventilator may be readily and quickly applied to or removed from the door structure.

The invention is illustrated in the accompanying drawings in which:

Figure 1 is a view in elevation illustrating the improved ventilator showing the same in applied position.

Figure 2 is an enlarged front elevation of the ventilator.

Figure 3 is an edge view of the same.

The improved ventilator comprises a metallic plate 1 of appropriate length and width formed with openings 2 of the louvre type. In line with the outer surface the plate 1 is formed with a depending flange 3 which is of the full length of the plate. A control plate 4 is mounted for limited sliding movement on the inner side of the plate 1. the connection between the plates being through the medium of pin and slot connections 5, the pins being in the form of headed rivets to prevent separation of the plates.

Intermediate the plates 1 and 4 is a screen cloth section 6 serving to prevent the entrance of dust or other fine particles through the ventilating openings. The plate 4 is preferably provided with a handle member 7 by which the plate may be adjusted and such plate is formed with openings 8 which may be aligned with the openings 2, moved wholly out of alignment with such openings, or arranged at any intermediate position, thus obviously controlling the degree of ventilation.

The ends of the plate 1 are provided with extensible sections 9 which are of plate-like form and slidably connected to the plate 1 by bolt and slot connections 10. An upstanding lug 11 is provided on each extensible section 9 and a corresponding lug 12 on the plate 1 in line with the lug 11. An adjusting bolt 13 is connected to each lug 11 and threaded through the lug 12, a lock nut 14 being arranged to maintain the adjustment. Obviously the sections 9 may be adjusted longitudinally with respect to the section 1 to any desired degree within the limits of the adjusting bolts 13.

In automobile structure the door frames as well as the body frame where sliding window panes are utilized are provided with opposing guides 15 in which the window pane 16 is adjusted, usually by means of a handle 17. In applying the improved ventilator, such ventilator is positioned in the upper portion of the opening closed by the sliding pane and the sections 9 are adjusted so that their free edges fit in the grooves in the guides 15. The window is then elevated until the upper edge bears against the lower edge of the plate 1, in which position it will be noted that the flange 3 covers the juncture between the window and ventilator plate so as to prevent the entrance of the elements through such opening.

It is, of course, apparent that the degree of ventilation may be controlled by movement of the plate 4 and thus a free admission of air may be provided for notwithstanding the fact that the windows are closed. When not required for use, the ventilator may be readily removed and stored, as its comparatively flat condition permits it to be carried as a part of the car equipment without occupying any unnecessary space.

What I claim as new is:

A ventilator comprising a fixed plate formed with ventilating openings, a controlling plate formed with openings corresponding to the ventilating openings, said controlling plate being movable to control the registry of the respective openings in the plates, a screen interposed between the two plates, an adjustable extension plate at each opposite end of the fixed plate, a lug extending from each extension plate, a threaded lug at each opposite end of the fixed plate in line with the lugs on the extension plates, and an adjusting screw and lug nut engaging each lug at the ends of the fixed plate, and the companion lug on the extension plate.

In testimony whereof I affix my signature.

LEVI WHITESEL.