Jan. 16, 1934. P. WINGERT 1,943,573

VENTILATOR

Filed Feb. 1, 1933

Fig. 1.

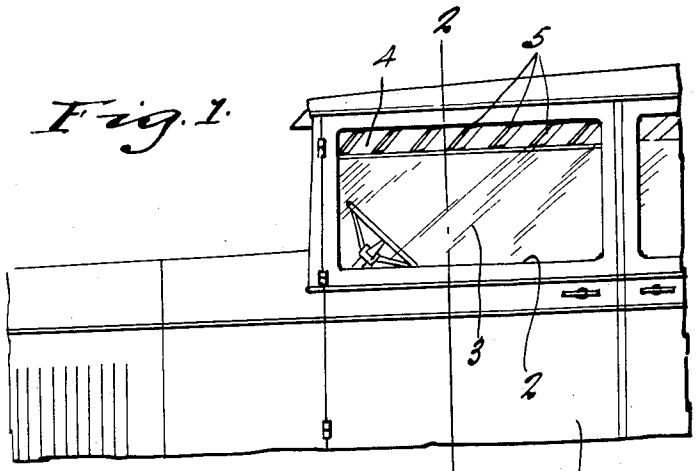


Fig. 2.

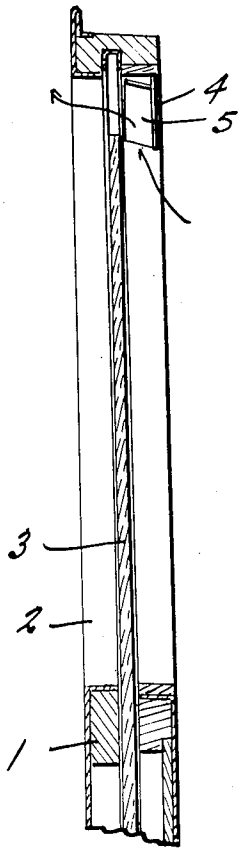


Fig. 3.

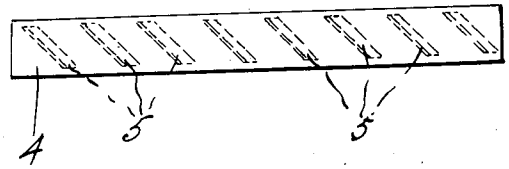


Fig. 4.

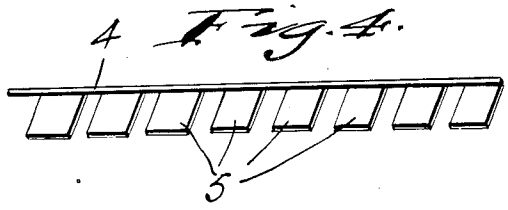
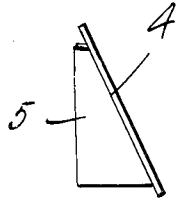


Fig. 5.



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UNITED STATES PATENT OFFICE

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VENTILATOR

Paul Wingert, Lorain, Ohio

Application February 1, 1933. Serial No. 654,710

2 Claims. (Cl. 98—2)

The present invention relates to new and useful improvements in ventilators for automobile of the closed body type and has for one of its important objects to provide, in a manner as hereinafter set forth, a ventilator which functions on the ejection principle when the vehicle is in motion.

Another important object of the invention is to provide a ventilator of the aforementioned character which may be expeditiously mounted in position for use in the upper portion of an automobile door or window and which will interfere in no way with the raising or lowering of the glass.

Other objects of the invention are to provide a ventilator of the character described which will be simple in construction, strong, durable, highly efficient and reliable in use, attractive in appearance and which may be manufactured at low cost.

All of the foregoing and still further objects and adavantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation, showing a ventilator constructed in accordance with the present invention mounted in position in the door of an automobile.

Figure 2 is a view in vertical transverse section, taken substantially on the line 2—2 of Figure 1.

Figure 3 is a view in side elevation of the ventilator.

Figure 4 is a plan view.

Figure 5 is a view in end elevation of a modified form of the invention.

Referring now to the drawing in detail, it will be seen that the reference numeral 1 designates a portion of a conventional automobile door having a window opening 2 in the upper portion thereof in which a glass 3 is vertically slidable.

The ventilator constituting the present invention comprises an elongated, substantially flat vertical plate 4 of any suitable material, preferably metal, which is secured in any suitable manner longitudinally in the upper portion of the door opening 2 in inwardly spaced relation with respect to the glass 3.

Fixed at longitudinally spaced points on the plate 4 are fins 5 which also are preferably of metal. The fins 5 may be secured on the plate 4 in any suitable manner, as by soldering, welding or riveting. When the ventilator is mounted in position on the automabile, the inclined fins 5 project outwardly from the plate 4.

The fins 5 are mounted substantially diagonally on the plate 4, the lower ends of said fins being forwardmost. Further, as best seen in Figures 1 and 2 of the drawing, the substantially diagonal fins 5 are inclined upwardly. The construction and arrangement of the fins 5 is such that, as the vehicle moves forwardly, air impinges said fins and is deflected inwardly and upwardly thereby, thus creating a partial vacuum below the fins which draws the air from the interior of the vehicle body, as indicated by the arrows in Figure 2 of the drawing. It will thus be seen that when the automobile is moving forwardly and the glass 3 is lowered, as in Figure 2, the air is being constantly exhausted from the interior of the body thereof, and of course, fresh air from the atmosphere is substituted for the air thus withdrawn.

In the form of the invention shown in Figures 1 to 4, inclusive, of the drawing, the plate 4 is mounted vertically in the vehicle door or window. However, if desired, this plate may be mounted at an inclination such, for example, as is seen in Figure 5 of the drawing.

It is believed that the many advantages of a ventilator constructed in accordance with the present invention will be readily understood, and although the preferred embodiments of the invention are as illustrated and described, it is to be understood that further modifications and changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

Having thus described my invention, what I claim as new is:

1. A ventilator for vehicles comprising an elongated, imperforate vertical plate mounted longitudinally on the inside of the upper portion of a window of the vehicle in spaced relation thereto, and fins mounted at longitudinally spaced points on the outer side of the plate, said fins being inclined upwardly and having their lower ends forwardmost.

2. A ventilator for vehicles comprising an elongated, inclined imperforate plate mounted longitudinally on the inside of the upper portion of a window of the vehicle in spaced relation thereto, and fins fixed, at longitudinally spaced points on the outer side of the plate, said fins being inclined upwardly from the plate to their outer edges, the lower ends of the fins being forwardmost.

PAUL WINGERT.