
Charles L. Harrison, of Richmond, Virginia, Assignor of One-Third to Leon L. Strause, of Richmond, Virginia.

Ventilator-Sash for Car-Windows.

1,244,602.


To all whom it may concern:

Be it known that I, Charles L. Harrison, a citizen of the United States residing at Richmond, in the county of Henrico and State of Virginia, have invented a new and useful Ventilator-Sash for Car- Windows, of which the following is a specification.

This application relates to an improvement upon the ventilator for car windows for which I have been granted Patent 1,150,002.

The object of my invention is to provide an improved ventilating device for windows, and especially for car windows. It is an especial object of my invention to provide a novel adjustable lid for regulating the ventilation. It is further my object to provide novel spring actuated means for adjustable locking the ventilating lid in any desired position. It is also an object of my invention to provide in connection with spaced ventilating panels, a novel screen member removably supported from the panels. It is further an object of my invention to provide a ventilating device that does not interfere with the operation of an inside sash, and which will not project beyond the outer edge of the car frame. It is an object of my invention to combine a novel ventilating device with a sash for car windows, so that the ventilating sash will be a part of the equipment of the car and will not require storage space when not in use. It is further my object to provide a novel combination and arrangement of parts as fully hereinafter disclosed.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of my car window ventilator from the inside of the car; Fig. 2 is an outside view thereof; Fig. 3 is a vertical section on line 3-3 of Fig. 1; Fig. 4 is a section on line 4-4 of Fig. 3; and Fig. 5 is a detail of the flat tension spring member.

Like characters of reference designate like parts throughout the views.

Referring to the accompanying drawings, I provide a sash 1, in which is mounted a suitable pane 2 and a suitable ventilator frame 3, having an outer metal panel 4 and an inner wood panel 5, spaced substantially apart and having their free edges extending past the same horizontal plane. Outer panel 4 is provided with an inturned edge 6, and inner panel 5 is provided with a supporting member 7. A suitable wire screen 8 is removably mounted on supporting members 6 and 7. I provide novel means for enabling the passenger to regulate or control the ventilation, said means consisting of an adjustable lid 9 swingably mounted by hinge 10 from sash 1, as illustrated in Fig. 3. In order to fasten lid 9 in an adjusted position, I provide a tension spring 11 positioned in the slotted portion 18 of frame 3, substantially as shown and arranged to press against the adjacent edge of lid 9. The inner end 12 of tension spring 11 is suitably fastened to ventilator frame 3, as illustrated in Fig. 4. Suitable coil springs 13, mounted in suitable orifices 14 in frame 3 are positioned to press outwardly against spring 11 to insure its effectively engaging the edge of adjustable lid 9. Member 9 is provided with an offset end portion 15, extending through slotted portion 16 of metal plate 17 to provide convenient means for the passenger to adjust the ventilator lid. Member 17 is a brass plate employed to form a rabbot at each end of the ventilator opening. This is employed so that the lid can fit flush with the inside panel. Lid 9 is provided with a groove portion 19 and panel 5 is provided with a corresponding groove portion 20 so that the ventilator lid may fit tightly when closed.

The flow of the air currents through my ventilating device is illustrated by arrows in Fig. 5. The screen 8 operates to exclude cinders, dirt, trash, and flies. The ventilation may be regulated by the passenger by opening or closing hinged lid 9. Lid 9 may be readily fastened in any desired adjusted position by means of tension spring 11. Coil springs 13 tend to fasten tension spring 11 firmly against the ventilating lid 11. By pressing on thumb lip 15 of member 11, the passenger may conveniently release it from engagement with the lid, when it is desired to adjust the latter. Member 11 is curved or bowed slightly outward, as illustrated in Fig. 4, and the aforesaid portion 15 of tension spring 11 is positioned to admit of engaging back of lid 9 when closed, to hold it securely in closed position, as will be understood by reference to Fig. 4. Being applied to a car window frame like the ordinary sash, my invention is a part of the equipment of the car, and requires no extra space for storage when not in use. It does not project beyond the outer edge of the car.
window and does not interfere with the operation of the inside sash in window frames having double sashes.

What I claim is:

1. A window having a ventilator combined therewith, said ventilator constituting the lower sash member and comprising a ventilator frame having parallel spaced vertical panels extending past the same horizontal plane and having diagonally disposed openings, a removable screen, and ledges on opposite portions of the panels for horizontally supporting the removable screen to prevent the ingress of particles of matter floating in the air, an inwardly swinging adjustable lid, suitably mounted to the frame, and positioned to close the upper opening above the inner panel to regulate the ventilation, and to permit of ready removal of the screen and cleaning of the interior of the ventilator frame from within the car.

2. In combination with a ventilator having a swinging lid, resilient means mounted in the ventilator frame arranged to frictionally engage the side of the lid, said means comprising a flat spring positioned to engage the side of the ventilator lid, the spring having an offset end portion extending through the ventilator to facilitate release of the lid when desired, and one or more coil springs mounted in the ventilator frame and positioned to bear against the flat spring to cause it to constantly press against the edge of the lid, to permit of readily securing same in any desired adjusted position.

3. A ventilator for car windows having spaced panels and having an opening above the inner panel and also an opening below the outer panel, screen supporting means carried by horizontally aligned portions of the panels, a removable horizontally positioned screen adapted to prevent the ingress of particles floating in the air, and to facilitate cleaning of the interior of the ventilator from within the car and an inwardly swinging adjustable lid adapted to regulate the ventilation and close the ventilator opening above the inner panel substantially as and for the purposes set forth.

CHARLES L. HARRISON.

Witnesses:

G. M. CARLTON,

HOWARD G. GRISWOLD.