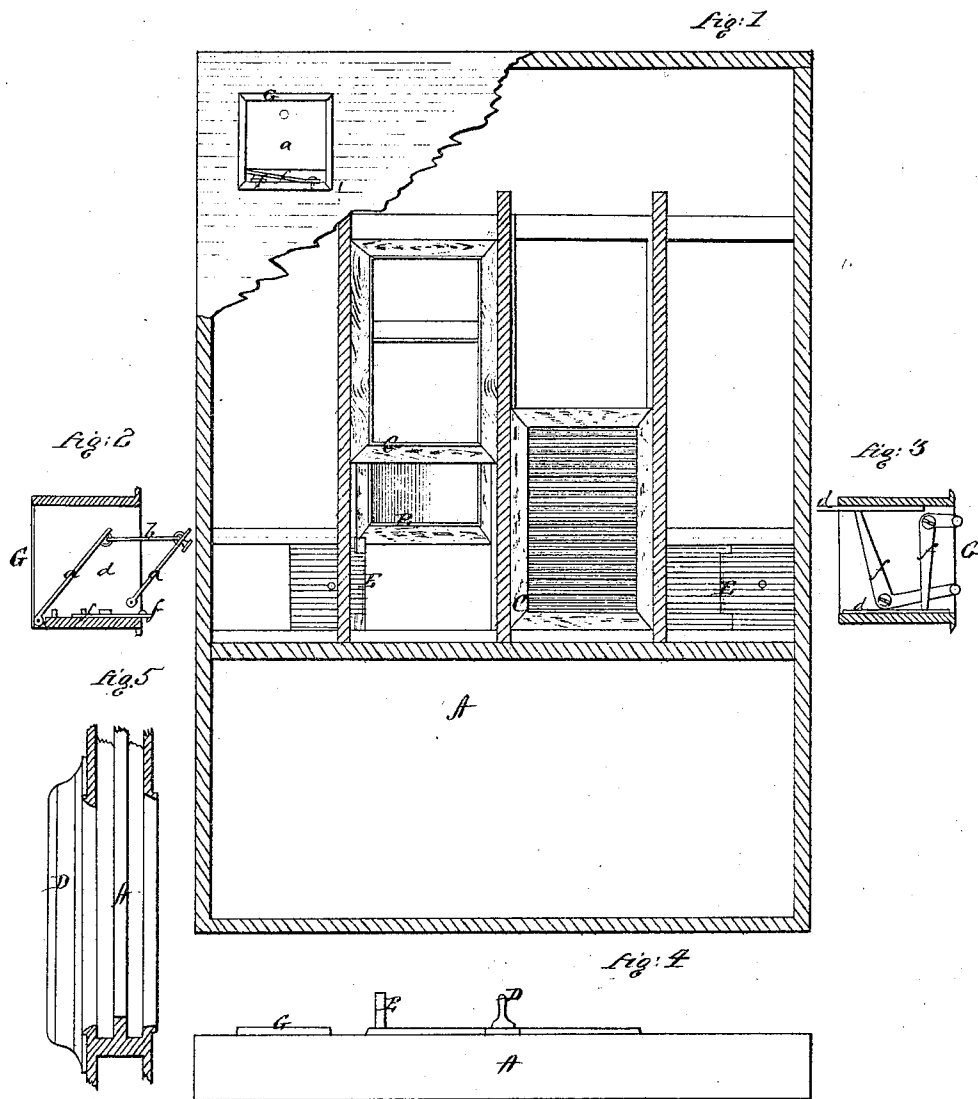


W. Conard,
Car Ventilator.

No. 105046.

Patented July 5. 1870.



Witnesses
L. E. Curtis,
A. M. Mathews

Inventor
William Conard
per
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM CONARD, OF BURLINGTON, NEW JERSEY.

RAILROAD-CAR VENTILATOR.

Specification forming part of Letters Patent No. 105,046, dated July 5, 1870.

To all whom it may concern:

Be it known that I, WILLIAM CONARD, of Burlington, in the county of Burlington, and in the State of New Jersey, have invented certain new and useful Improvements in Ventilating Railroad-Cars; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature and object of my invention consist in so constructing and arranging windows and ventilators of all movable vehicles, but more especially railroad-cars, in such a manner that passengers at each seat may be able to regulate the ventilation, and have as much or as little air passing to or from the car, as the case may be, without interfering with their neighbors on the next seat, and by which means fresh air can be admitted into the car, or the foul air can be passed off from the car, without the discomfort (which, by the present mode, so many now feel) of being blinded with dirt or having to sit in the draft of an open window, if the person in another seat insists on having a window up.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a vertical section lengthwise through the side of a railroad-car, showing the windows and the ventilator. Fig. 2 is a vertical section through the ventilator, and Fig. 3 is a horizontal section of the same. Fig. 4 is a plan view of Fig. 1; and Fig. 5 is a transverse vertical section through line *xy*, Fig. 1.

A represents a portion of the side of a railroad-car, with windows B and blinds C C. In case it is a double window, as represented in Fig. 1, I place on the outside of the car, in the center, between the two windows, a projecting molding, D, of any suitable shape. This molding runs vertically, and projects about one-third or one-fourth the width of the window beyond the surface of the car. When the car is in motion, the sash in rear of said molding can be raised without inconvenience to the person sitting at the window.

It is well understood that for every inch of projection from the surface of the car from three to four inches in width of the window or opening will be protected from a draft of air, dirt, snow, rain, or whatever other object of like character the car might be passing through.

Where there is only a single window, the separating-piece E, between the glass-sash B and blind-sash C, is so constructed that it can be slid out, and provided with a hinge, so that it may be turned square outward. The window-sash, being notched and dropped on it, keeps it in place. The piece E, being thus placed and projecting outward for a certain distance, protects the person sitting at the window.

The ventilator G, I have represented as being made in box form; but it may be made in any desired form or shape and in any suitable dimensions. It is provided with drops *a a*, connected by a rod, *b*, and with sliding side pieces *d d*, operated by means of levers *f f* from the inside of the car. By this means the ventilator can be easily regulated so as to draw the air into or expel the foul air out of the car, and at the same time prevent the ingress of rain, snow, dirt, &c., into the car.

This ventilator will be of great benefit to the upper berth in a sleeping-car, steamboat, or any kind of conveyance.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement, with the frame A, of the glass-sash B, blind-sash C, separating-piece E, hinged and operated as described, and the projecting molding D, all as shown and described.

2. The ventilator G, constructed as described, with drops *a a*, slides *d d*, and levers *f f*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of May, 1870.

WILLIAM CONARD.

Witnesses:

JOSEPH L. POWELL,
HENRY BLARE.