

D. W. NOYES.
Railroad Car Ventilators.

No. 136,756.

Patented March 11, 1873.

Fig. 1.

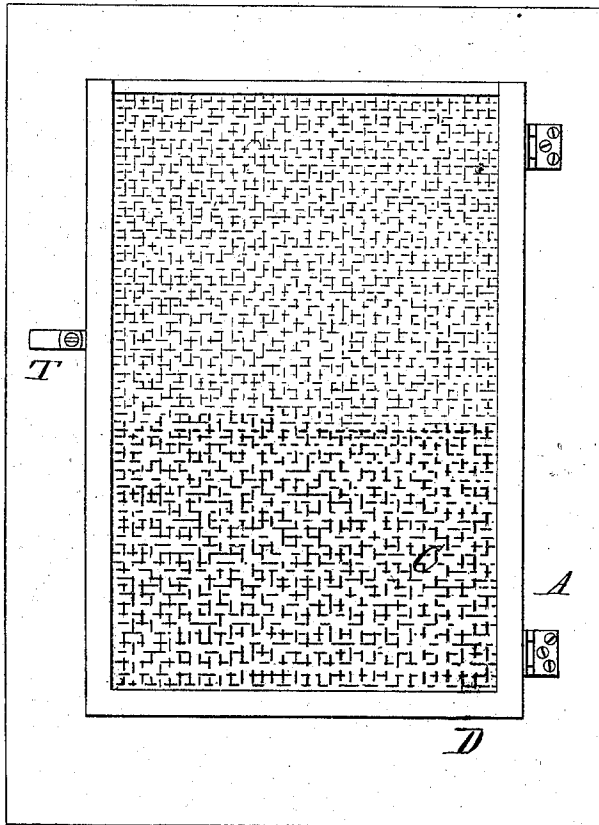


Fig 3

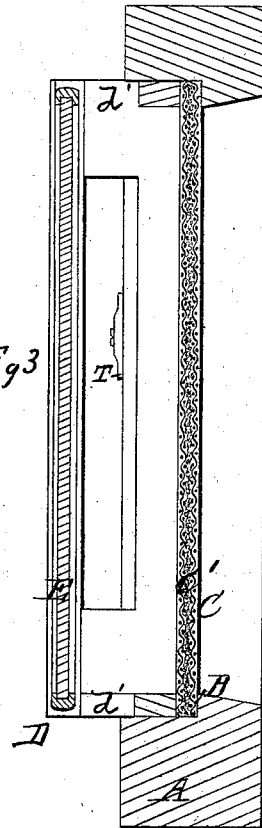
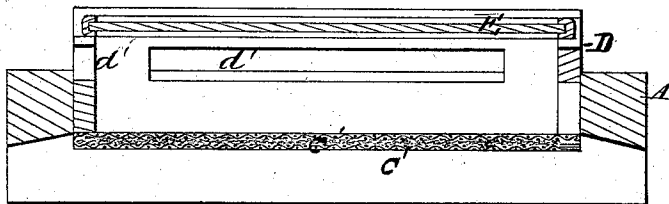


Fig. 2.



Witnesses.
W. H. Hub
Phil. C. Kasi.

Inventor.
David W. Noyes,
Chipman & Co.,
Attorneys.

UNITED STATES PATENT OFFICE.

DAVID W. NOYES, OF BENNINGTON, VERMONT.

IMPROVEMENT IN RAILROAD-CAR VENTILATORS.

Specification forming part of Letters Patent No. **136,756**, dated March 11, 1873.

To all whom it may concern:

Be it known that I, DAVID WOODARD NOYES, of Bennington, in the county of Bennington and State of Vermont, have invented a new and valuable Improvement in Dust-Excluding Car; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a front view of my window-sash. Fig. 2 is a transverse section, and Fig. 3 is a vertical section, of the same.

This invention has relation to car-windows; and consists in the construction and novel arrangement of a hinged sash holding-glass, and constructed with openings in the sides, top, and bottom for the circulation of air, substantially as hereinafter more fully described.

Referring to the drawing, A designates the the frame of a car or other window, having a ledge, B, against which rests a folded sheet of wire-cloth, C, holding between its folds a sheet of wool or raw cotton, C', to exclude the dust, smoke, and rays of the sun, while allowing ample ventilation. The wool is to be pre-

ferred as being less liable to take fire from the escaping sparks from the locomotive. D designates the hinged sash, having its hinges on the outside, and attached to the external part or face of the window-frame. The sash fits closely into the window-frame, serving to hold the wire cloth in place, and it projects beyond the face of the window-frame, and has slots *d' d'* at the top, sides, and bottom, to allow ventilation when the sash is closed. When closed the sash may be held by a button, T, or its equivalent.

The herein-described improvements may be applied to house-windows, as well as to car-windows, the sash being made to hold any required number of panes of glass.

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

The hinged projecting window-sash D, having the ventilation-apertures *d'* at the sides, bottom, and top, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DAVID WOODARD NOYES.

Witnesses:

JAMES B. MEACHAM,
A. H. CHILDS.