C. T. TATRO.
Car-Ventilator.

No. 203,088. Patented April 30, 1878.

Fig. 1.

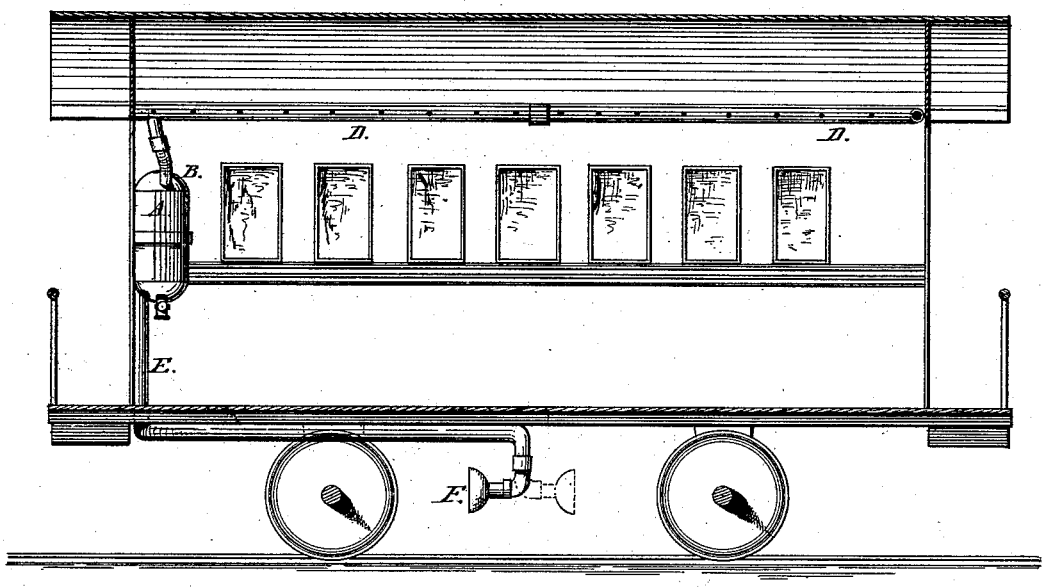
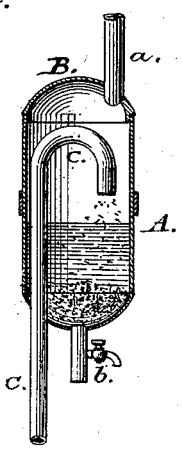


Fig. 2.



Witnesses:
Wm Bagger
W. E. Keaton.

Inventor:
Charles T. Tatro
By Parker H. Sweet Jr. & Co.
his Attys.

UNITED STATES PATENT OFFICE.

CHARLES T. TATRO, OF HARTFORD, CONNECTICUT, ASSIGNOR OF ONE-HALF HIS RIGHT TO MASON W. SHERMAN, OF SAME PLACE.

IMPROVEMENT IN CAR-VENTILATORS.

Specification forming part of Letters Patent No. **203,088**, dated April 30, 1878; application filed September 17, 1877.

To all whom it may concern:

Be it known that I, CHARLES T. TATRO, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Apparatus for Ventilating Cars; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a sectional view of a car embodying my improvements. Fig. 2 is a detached sectional view of the water-chamber.

Similar letters of reference indicate like parts in both figures.

My invention relates to improved apparatus for ventilating cars; and it consists in the combination, with suitably-arranged perforated pipes in the interior of the car, of a cylindrically-shaped water-tank and funnel-shaped air-spouts under the bottom of the car, all as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, A represents the metallic cylindrical-shaped water-tank, having a removable top, B, provided with a short pipe, *a*, and a concave bottom, provided with a stop-cock, *b*, as shown. C represents a pipe passing through the bottom of the tank A, and provided with a curved bend or elbow, *c*, in the upper part of the same. The tank thus constructed is attached to one corner of the interior of the car, preferably in that occupied by the water-closet, and the pipe B, connected by a suitable coupling to the perforated pipe D, arranged around the car at the top or at the lower edge of the dome of the car.

The pipe C is also connected, by a suitable coupling, to the pipe E, which passes down under and to the central part of the bottom of the car, where it is provided with a funnel or bell shaped mouth, F, which is constructed with a view to be readily turned in either direction in which the car may be traveling.

The construction of my invention being as described, it will be observed that, as the car is being propelled over the track, the air will be caught in the funnel-shaped mouth F and forced up through the pipes E and C into the water-tank A, and discharged downwardly into the water contained therein by means of the curved or bent portion *c*, thereby causing the water to take up the dust and cinders contained in the air, and allowing the same, in a pure condition, to ascend through the pipe *a*, to be distributed through the perforated pipe D into the interior of the car at all points.

The soiled contents of the water-tank can be readily drawn off at any time by means of the spigot *b*, and fresh water introduced by uncoupling the pipe *a* from the perforated pipe D and removing the top B.

By means of my present improvements I am enabled to thoroughly ventilate cars of all kinds in the most ready and efficient manner, and at a comparatively small cost.

Having thus described my invention, what I claim as new and useful is—

In a car-ventilator, the receptacle A, having the removable top B, provided with pipe *a*, and concave bottom, provided with stop-cock *b*, and pipe C, having bend or curve *c*, when adapted for operation in connection with supply and exhaust pipes, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

CHARLES T. TATRO.

Witnesses:

PARKER H. SWEET, Jr.,

W. U. HEATON.