

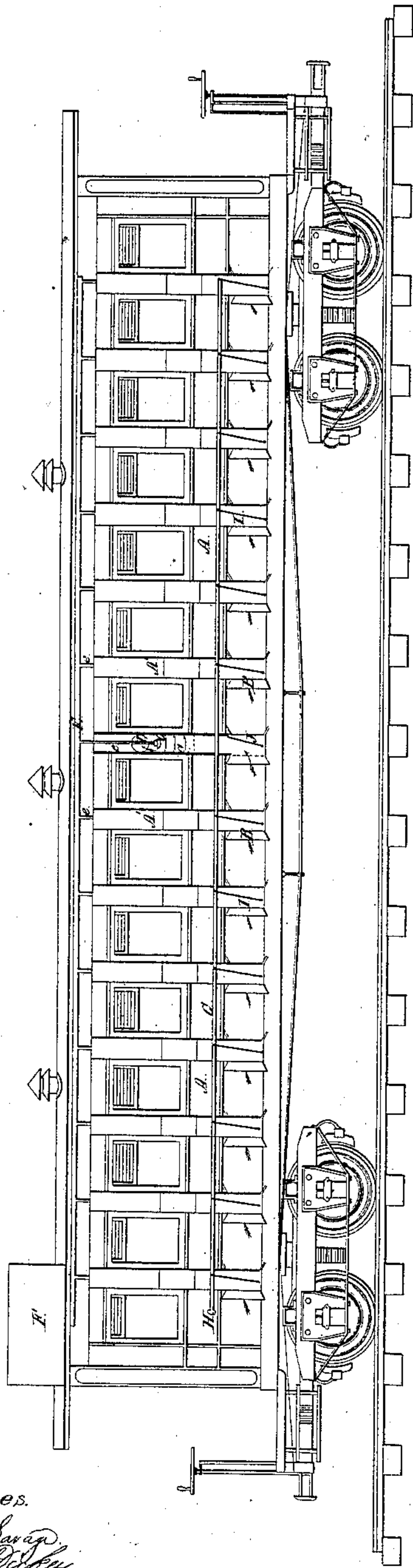
J. G. Treadwell,

Car Ventilator,

N^o 25,776.

Patented Oct. 11, 1859.

Fig. 1.



Witnesses.

Silas P. Cary
Andrew Wiley

Fig. 4.

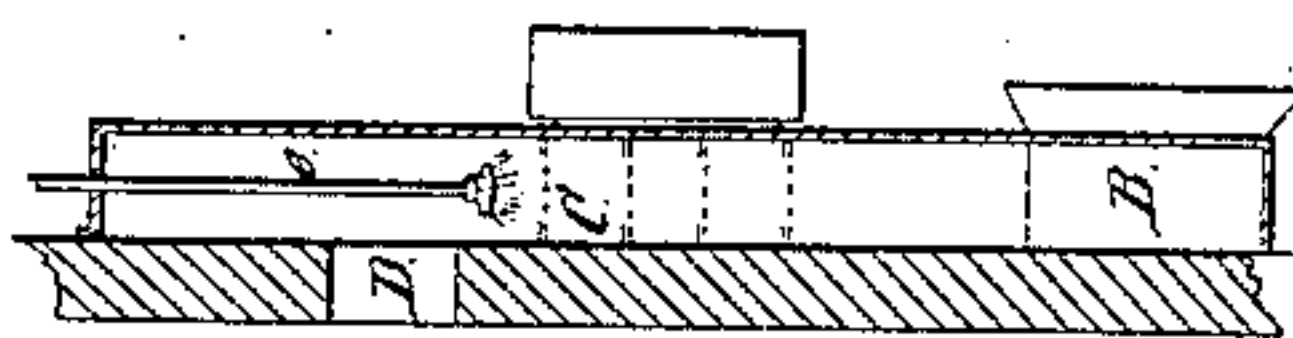
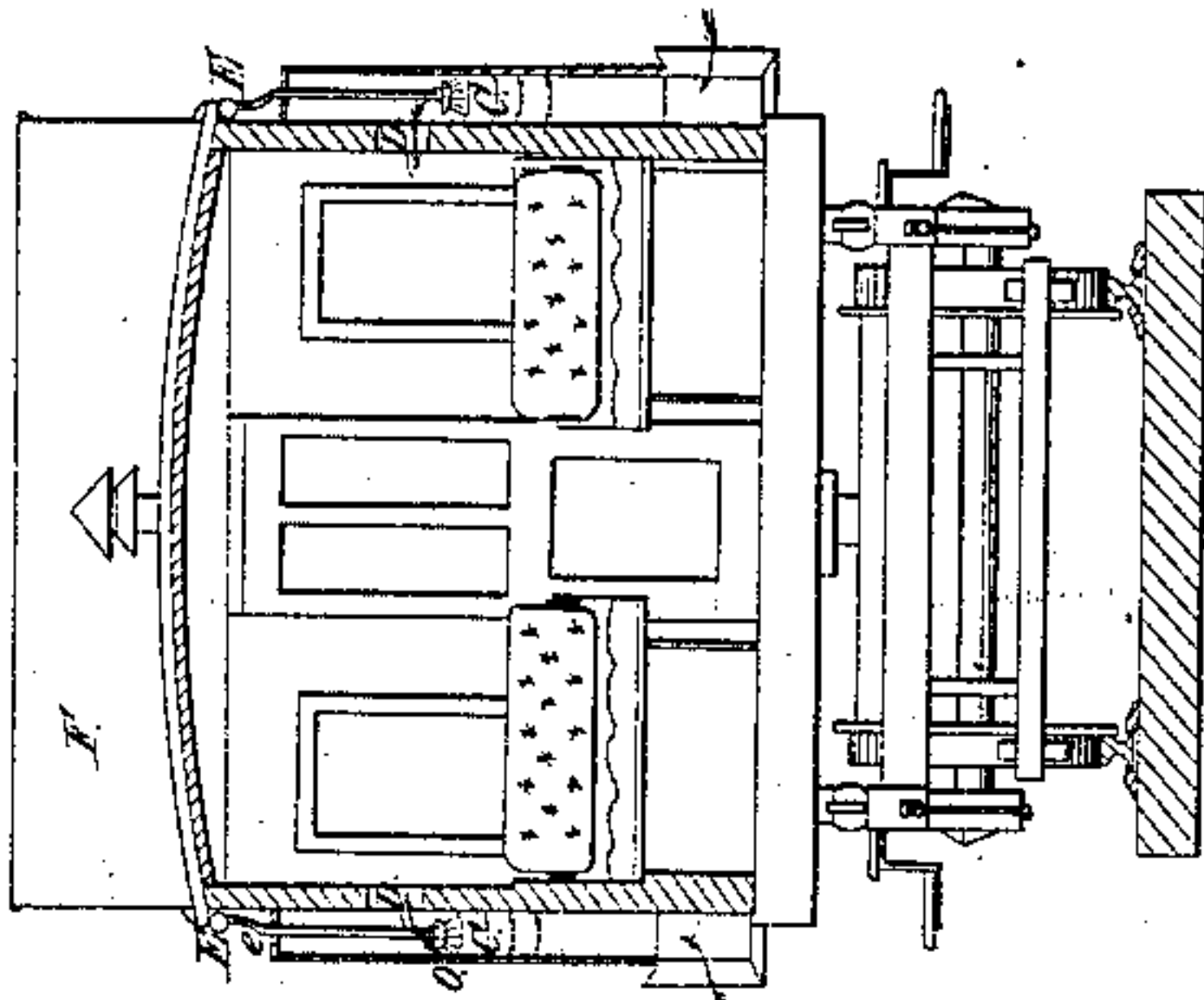
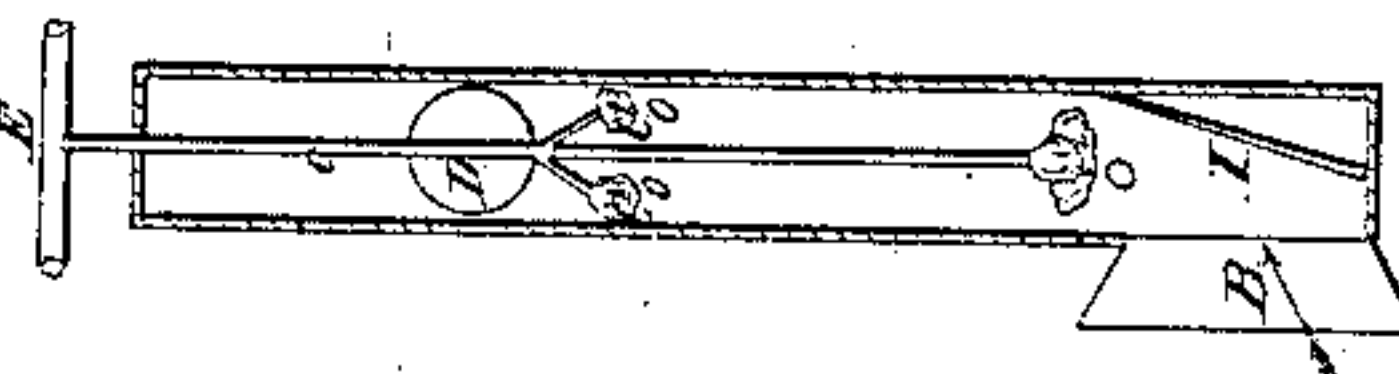


Fig. 3.



SECTION



SIDE ELEVATION

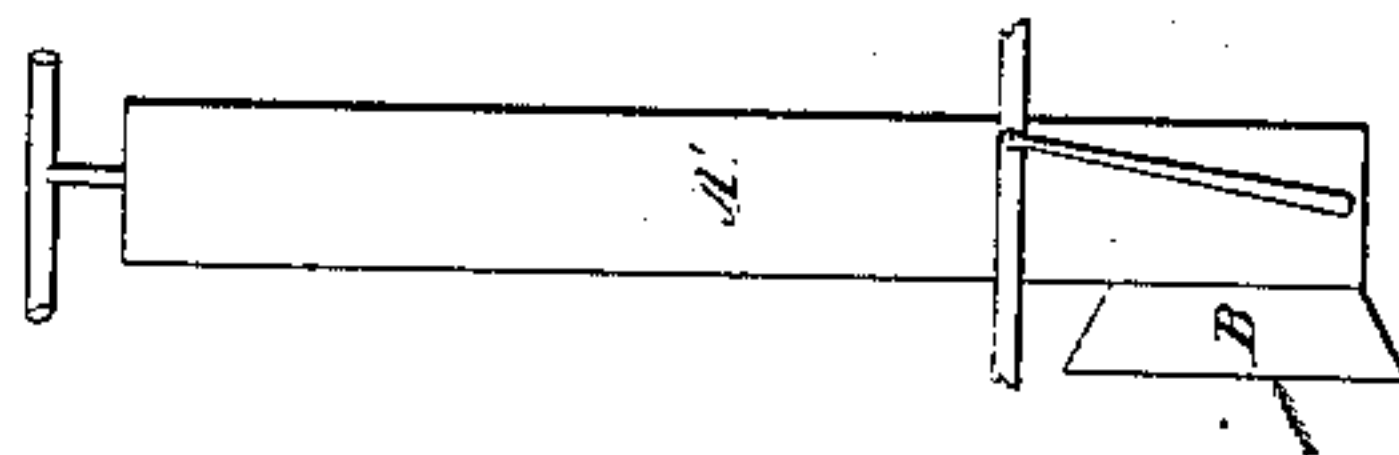
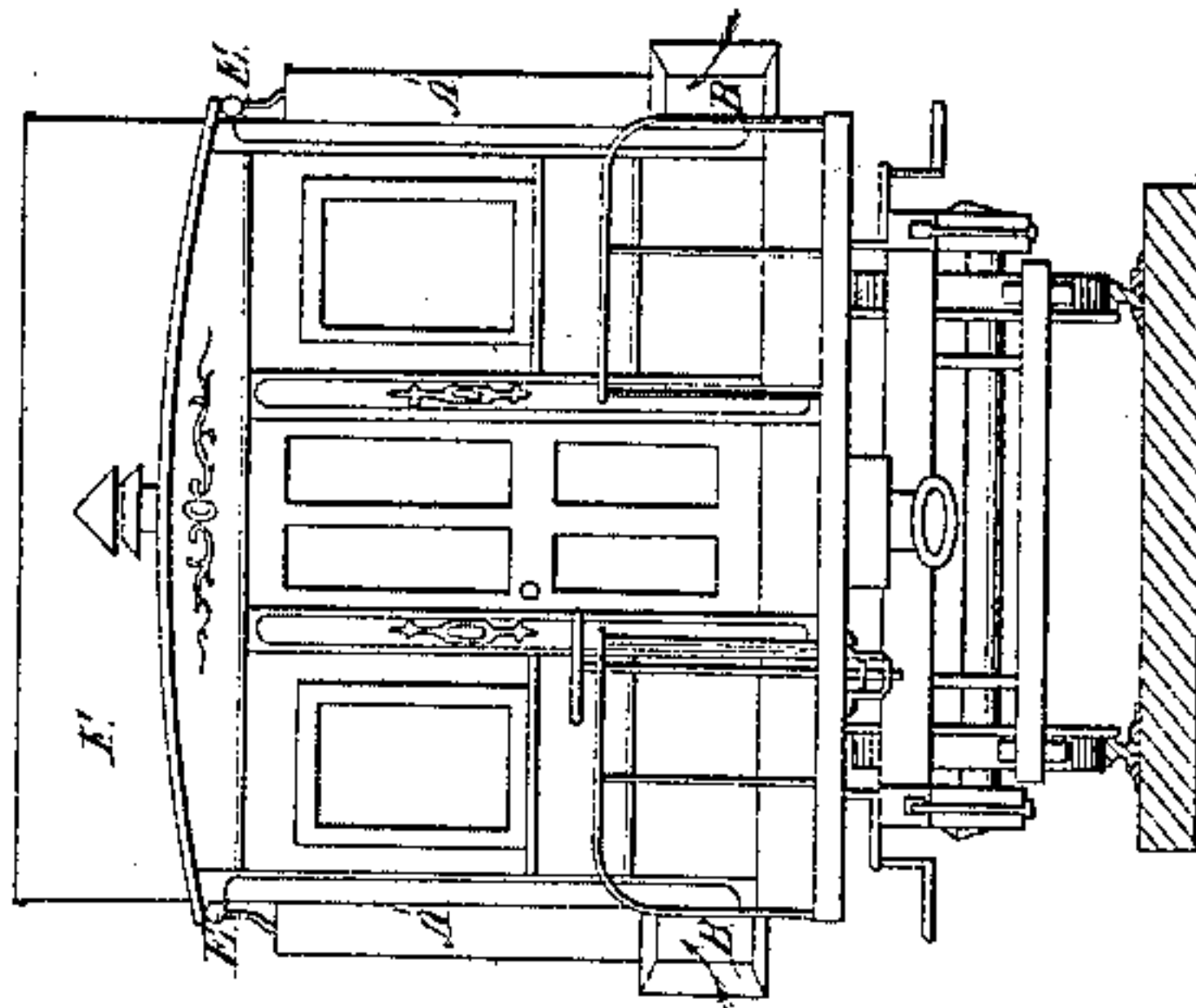


Fig. 2.



Inventor.

J. G. Treadwell

UNITED STATES PATENT OFFICE.

JOHN G. TREADWELL, OF ALBANY, NEW YORK.

APPARATUS FOR VENTILATING RAILROAD-CARS.

Specification of Letters Patent No. 25,776, dated October 11, 1859.

To all whom it may concern:

Be it known that I, JNO. G. TREADWELL, of the city and county of Albany, in the State of New York, have invented certain new and useful Improvements in Ventilating Cars; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in arranging and constructing those several parts which will be described, of the ventilator, substantially as will be set forth.

In the annexed drawings, A, represents the body of the car, which is constructed in any of the known ways. This body is provided on each side with a series of boxes (A' A'), one box to each window said boxes extending from near the top of the body to near its bottom. The boxes A', A', are provided at their lower ends with two apertures (B), one on each side, and also with a series of valves I, I. The apertures B, B, have flaring mouths for the purpose of catching the air as the cars are in motion.

F, represents a water tank which is placed on top of the car.

E, is a pipe which passes from the water tank along each side of the car, over the boxes A', A'.

(e, e, e,) represent small pipes which connect with the main pipe E, and which lead from said pipe in to each one of the boxes (A'). These pipes (e) are provided at their lower ends with a sprinkler, which is constructed of any suitable shape or material.

(C, C,) represent partitions which are secured in the boxes (A', A',) said partitions being made of any suitable porous material through which air and water will pass. I may use in these boxes gauze wire, or bolting cloth, or sponge, or any other material which I see proper.

D, represents an opening leading from the inside of the car, to the boxes, there being an opening for each box. It will be seen that the ends of the pipes (e) extend down into the boxes below the openings (D).

In using this invention, water is first placed in the tank F. From thence it passes

into the main pipe E, and is thence distributed in all the smaller pipes e, e, e. It descends through these small pipes and is sprinkled upon the porous partitions (C, C,). Passing down it leaves the boxes through the openings B, B.

The flaring mouths of the openings B catch the air when the car is in motion and said air passes up through the boxes, through the partitions C, C, and into the car through the opening D.

It will be seen that the sprinkler on the ends of pipes (e, e,) stand below the openings D, so that the water may not be blown into the car through said opening.

The object of this arrangement is to perfectly ventilate the car, without admitting the cinders and dust, which are so annoying. The porous partitions being always damp from the water sprinkled upon them, they catch all cinders and dust which enters the boxes A', A', and do not allow it to pass through into the car. The water which is sprinkled upon these partitions has a tendency to wash them clean of the cinders and dust which may collect upon or in them.

I may find it convenient to use a small stop cock in each one of the pipes e, e, e, for the purpose of regulating the flow of water down through them. I may also find it convenient to use pieces of sponge on the ends of the pipes e, e, as represented in the supplemental drawings attached.

By changing the position of the valves I, I, air is admitted on either side of the boxes A', without the necessity of turning the cars around in running backward and forward upon the road.

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

The arrangement in the boxes (A'), of the porous partitions C, C, and the pipe e provided at its lower end with a sprinkler O, when the same are used in connection with the openings (D) substantially in the manner and for the purpose specified.

JNO. G. TREADWELL.

Witnesses:

SILAS T. SAVAGE,
ANDREW DICKEY.