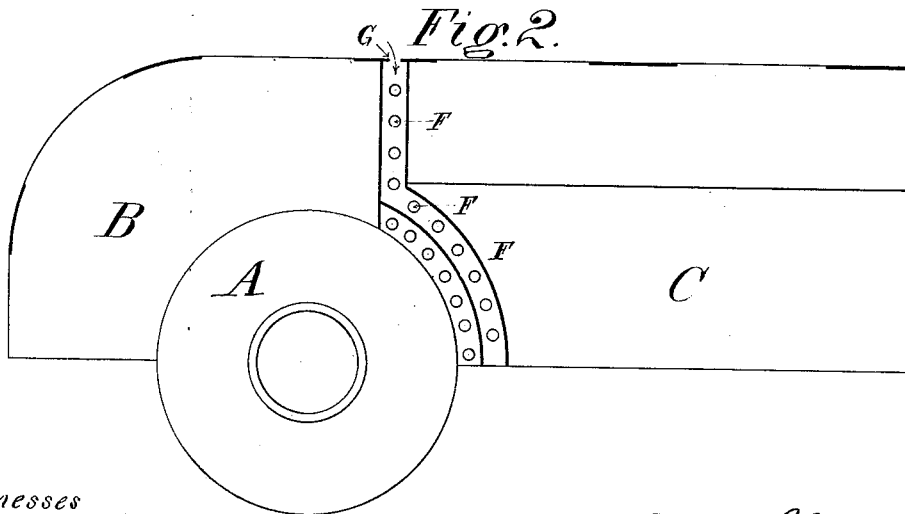
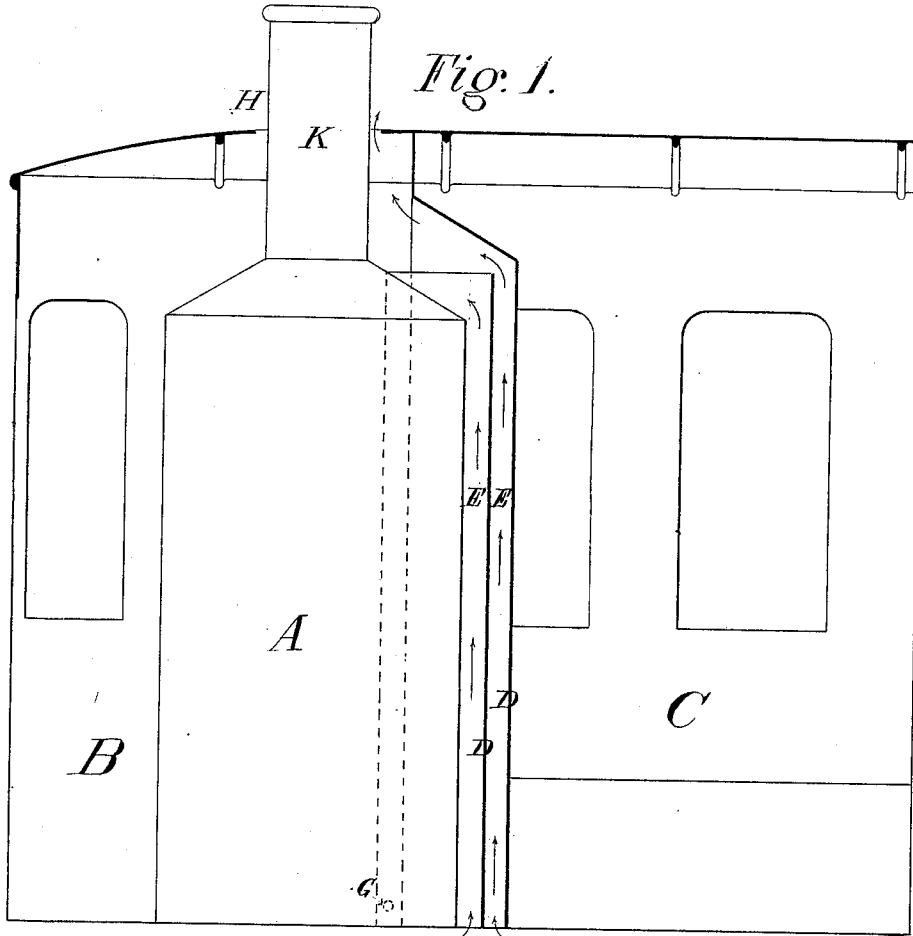


E. LONGSTRETH.
VENTILATING STEAM STREET-CARS.

No. 195,716.

Patented Oct. 2, 1877.



Witnesses

R. C. Wright

R. H. Sanford.

Edwa Longstreth
Inventor.

UNITED STATES PATENT OFFICE.

EDWARD LONGSTRETH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
BURNHAM, PARRY, WILLIAMS & CO., OF SAME PLACE.

IMPROVEMENT IN VENTILATING STEAM STREET-CARS.

Specification forming part of Letters Patent No. **195,716**, dated October 2, 1877; application filed
September 3, 1877.

To all whom it may concern:

Be it known that I, EDWARD LONGSTRETH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Steam Street-Cars, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to construct steam street-cars in a manner to prevent the escaping heat and odor of the boiler from being conveyed into the car, where it may become offensive and annoying to the passengers.

By reference to the drawings, in which Figure 1 is a longitudinal section, and Fig. 2 a plan in section, it will be seen that the boiler A is placed in a suitable position in the engine-room B, between which room B and the passenger-room C, I construct two or more partitions or walls, D D, at proper distances apart to form one or more air-spaces, E E, in which there is a free circulation of pure air introduced from the outside of the car.

The air may be admitted through suitable

openings F F F, or through similar openings G G G, near the bottom at the sides. After the air enters these openings F F F or G G G it is expanded by the heat, and, rising through the space or spaces E E, passes out at or near the top of the car through suitable ventilators, or is conveyed to a passage, H, surrounding the chimney K, where it escapes from the car.

It will be evident that any suitably-shaped or number of openings that will admit or discharge a sufficient quantity of air to keep the spaces E E cool and odorless may be employed, or attachments of various devices may be used to give a proper amount of draft or vent.

I claim as my invention—

The partitions or walls D D, forming the air-spaces E E between the engine-room B and passenger-room C, substantially as described, and for the purposes set forth.

EDWD. LONGSTRETH.

Witnesses:

J. R. MASSEY,
J. RAYMOND.