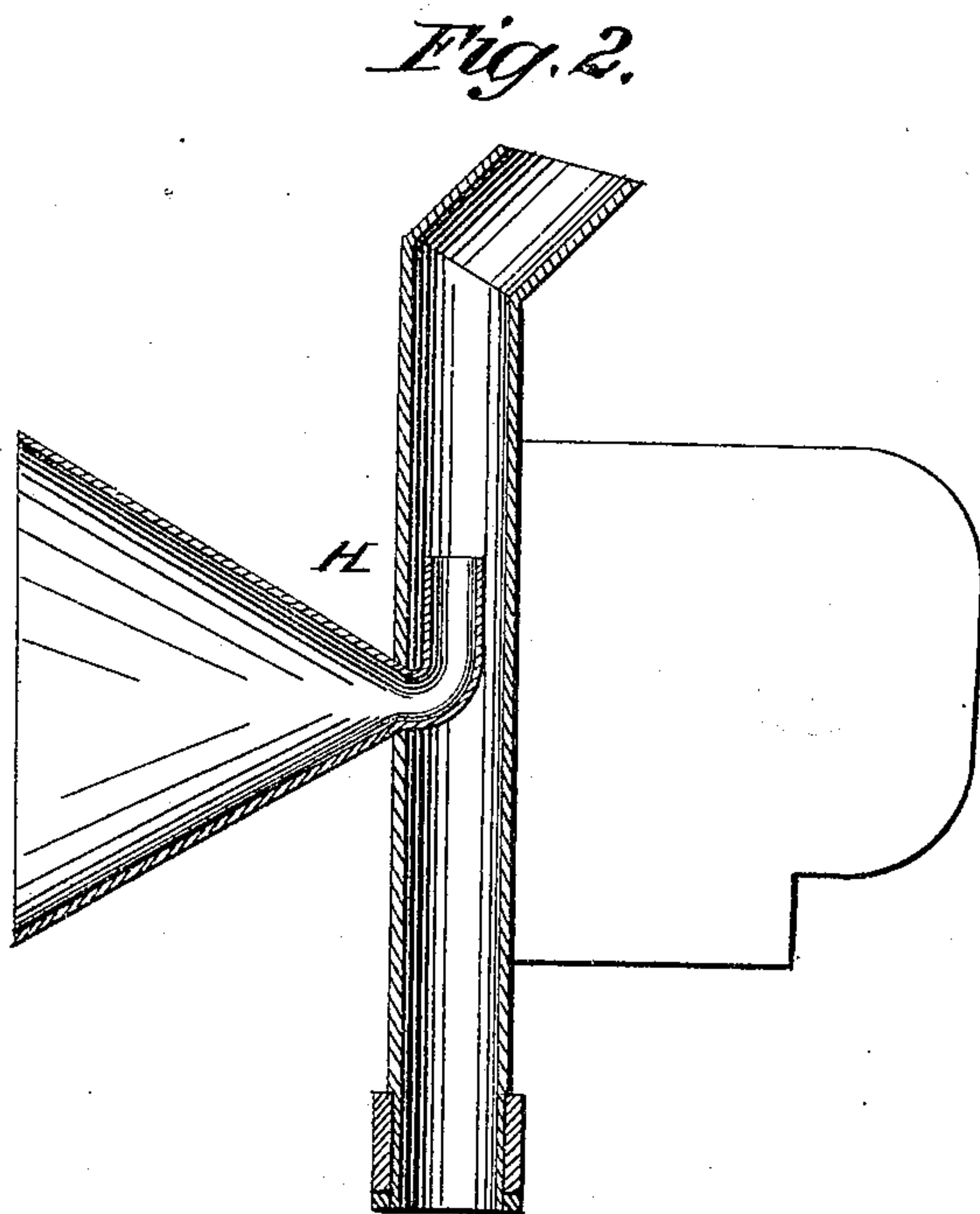
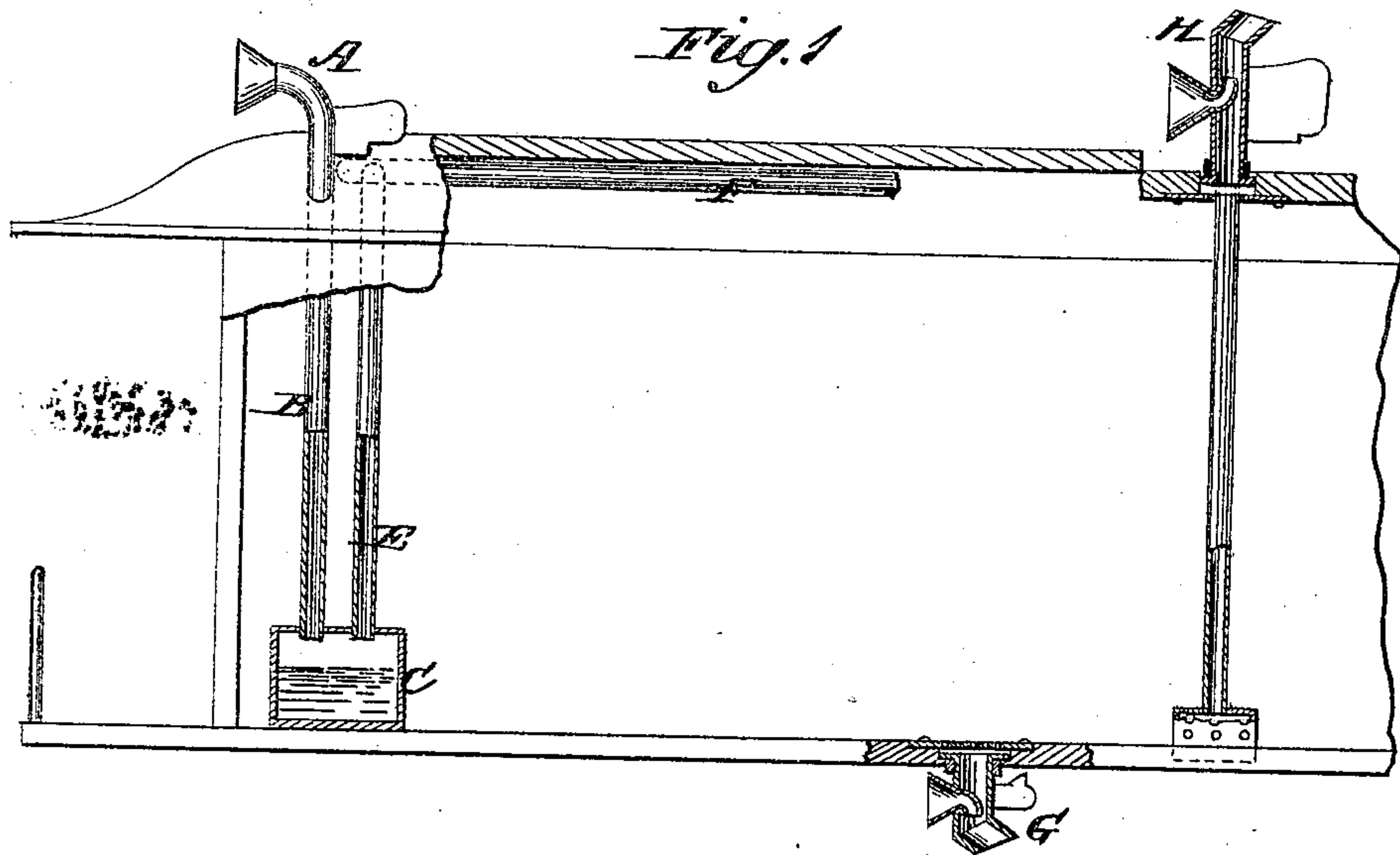


C. G. LEA.
CAR-VENTILATOR.

No. 175,717.

Patented April 4, 1876.



WITNESSES:

Francis McShale,
John Goethals

INVENTOR:

C. G. Lea

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE

CHARLES G. LEA, OF ALTON, ILLINOIS.

IMPROVEMENT IN CAR-VENTILATION.

Specification forming part of Letters Patent No. **175,717**, dated April 4, 1876; application filed March 6, 1876.

To all whom it may concern:

Be it known, that I, CHARLES G. LEA, of Alton, in the county of Madison and State of Illinois, have invented a new and Improved Car-Ventilator, of which the following is a specification:

My invention consists of a monk's-hood blower, with a pipe extending into a water-tank, and another pipe for conducting the air from the tank into the car, together with similar blowers for effecting exhaust from the car to aid in inducing an active current of fresh air into the car, and for actively conducting the air out after it has been used; but I mean to use the exhaust blowers with or without the tank and inlet blower. The air passes over the surface of the water in the tank, so that the dust contained in it will be projected into the water, where it will lodge, so as not to be driven into the car.

Figure 1 is a sectional elevation of a car with my improved ventilating apparatus, and Fig. 2 is a detail of one of the monk's-hood blowers for effecting the exhaust.

Similar letters of reference indicate corresponding parts.

A is the funnel or monk's-hood for taking the air into the car through pipe B, tank O, and pipes E F. G is a blower attached to the bottom, and H another attached to the top for exhausting the car, and thus making a lively action of air in it. The blowers G and H are both contrived for driving off the air from the bottom of the car while the fresh air enters at the top.

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

The combination, in a car, of inlet A, distributing-pipes E F, and the exhaust-blowers G H, substantially as specified.

CHAS. G. LEA.

Witnesses:

FRED. S. DETRICH,
M. I. LEE.