

U. P. Corbett,

Car Ventilator.

N^o 12,541.

Patented Mar. 20, 1855.

Fig. 1

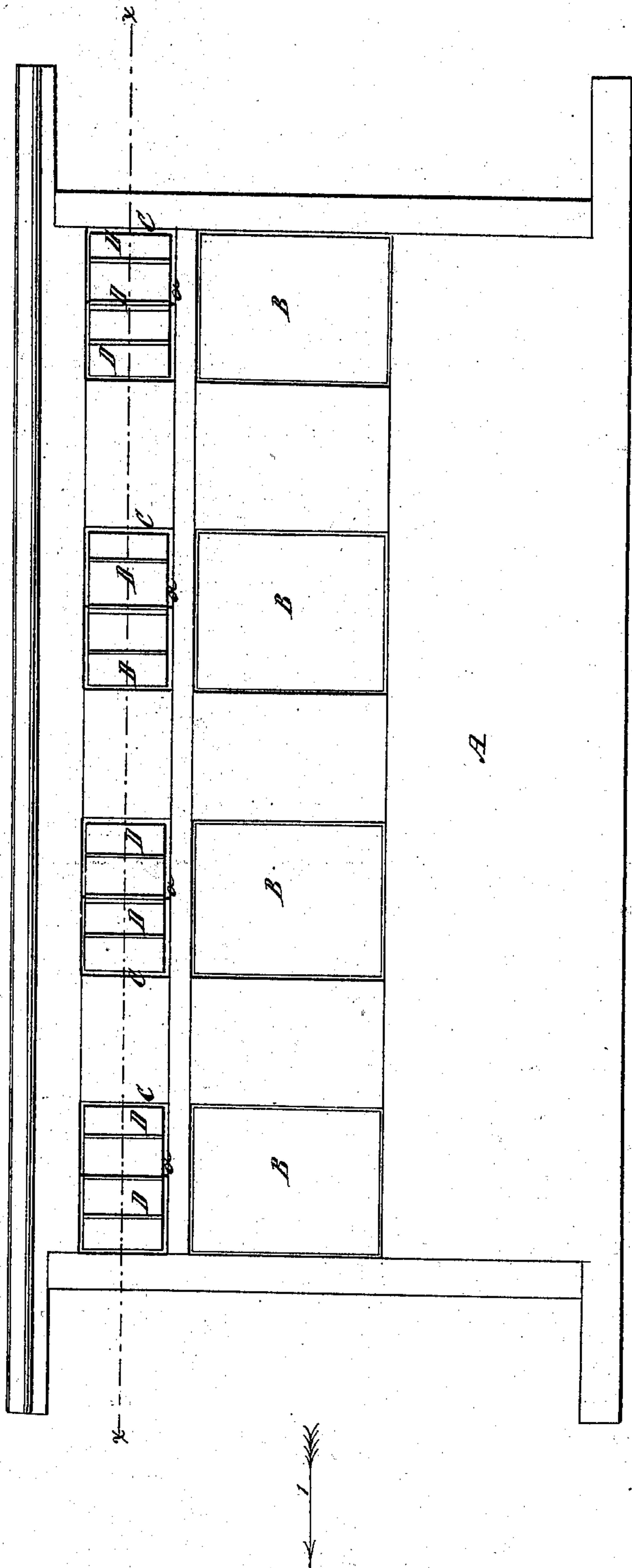
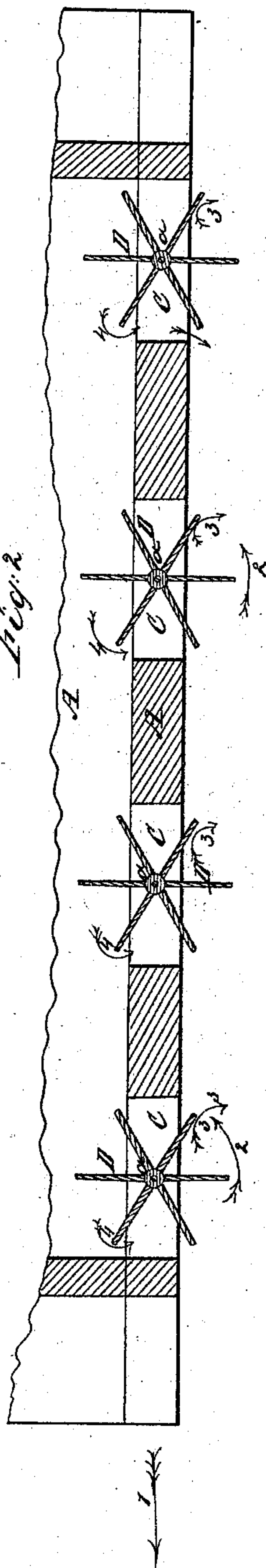


Fig. 2



UNITED STATES PATENT OFFICE.

V. P. CORBETT, OF CORBETTSVILLE, NEW YORK.

METHOD OF SELF-VENTILATION FOR RAILROAD-CARS.

Specification of Letters Patent No. 12,541, dated March 20, 1855.

To all whom it may concern:

Be it known that I, V. P. CORBETT, of Corbettsville, in the county of Broome and State of New York, have invented a new and useful Improvement in Car-Ventilators; 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, forming part of this specification, in which—

Figure 1, is a side elevation of a car ventilated after my plan. Fig. 2, a horizontal section of the same.

Similar letters of reference in each of the two figures indicate corresponding parts.

This invention relates to a method of ventilating rail road cars and steam boats and preventing dust entering the former.

The nature of said invention consists in providing a vertical ventilating fan directly over the top of each window of the car, said fans being arranged in openings cut in the sides of the car between the ceiling and windows and caused to revolve rapidly by the resistance of the air when the car or boat is in rapid motion, and as they revolve to exhaust the warm and impure air from the inside of the car and thus make room for the entrance of pure air, from the outside.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A, represents the car; B, B, B, B, the windows; C, C, C, C, the ventilating openings, formed in the space between the windows B, B, B, B and ceiling of the car; D, D, D, D, the fans or ventilators made of wood or metal and arranged in a vertical position in the openings C, C, C, C. The blades composing the fans may form part

of the vertical axles *a, a, a, a*, and revolve with them; the axles turning in sockets let into the frame at the tops and bottoms of the openings C, C, C, C; or the axles may be stationary and the fans revolve around them.

When steam boats are to be ventilated after my plan the fans are also arranged in the space between the windows and ceiling of the boat in a very similar manner as when applied to cars.

This invention it must be obvious presents several advantages over all other ventilators in use—it being very simple and compact—and in no way liable to become deranged, and is so constructed and arranged that no other power beside the resistance of the atmosphere is required to drive it.

By examining the drawing it will be seen that as the car moves in the direction of the arrow 1, the fans will be brought in contact with the atmosphere and consequently caused to revolve rapidly, and in revolving to exhaust the impure air from the inside of the car, as shown by arrows 4, and thus make room for the entrance of fresh air.

What I claim as my invention and desire to secure by Letters Patent is—

Forming a series of ventilating holes C, C, C, C, in the sides of the car between the ceiling and windows B, B, B, B, and providing in said holes vertical ventilating fans D, D, D, D, which are arranged so as to be caused to revolve by the rapid moving of the car through the atmosphere and thus made to exhaust the impure air from the inside of the car.

V. P. CORBETT.

Witnesses:

S. H. WALES,
J. W. COOMB.