

E. HAMILTON.
EXCLUDING DUST FROM RAILROAD CARS.

No. 8,121.

Patented May 27, 1851.

Fig. 1.

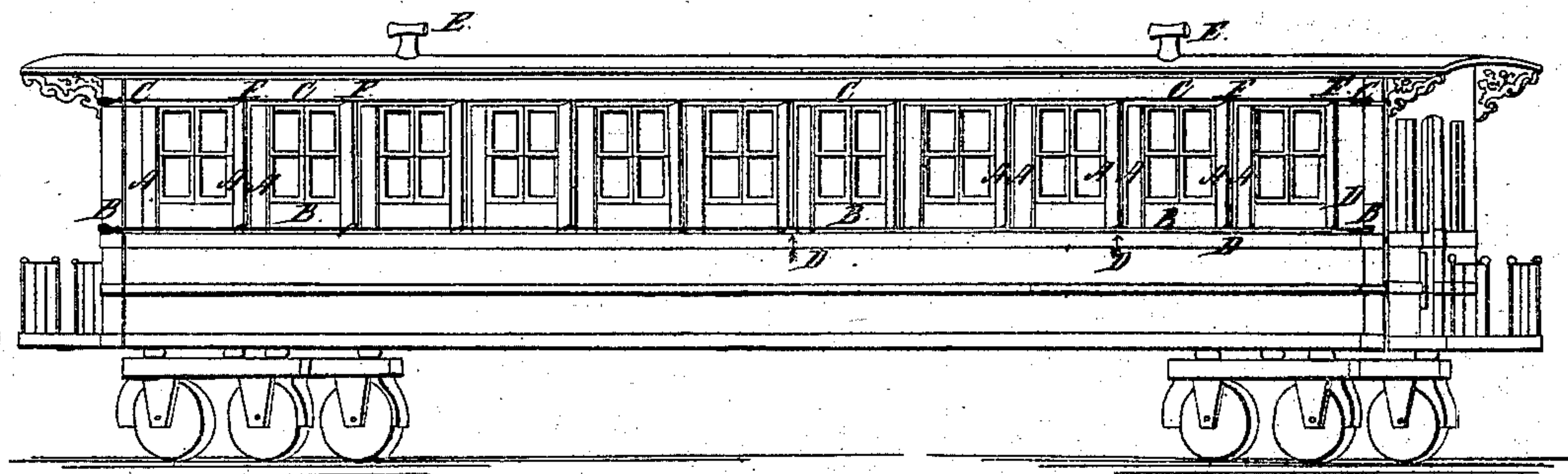
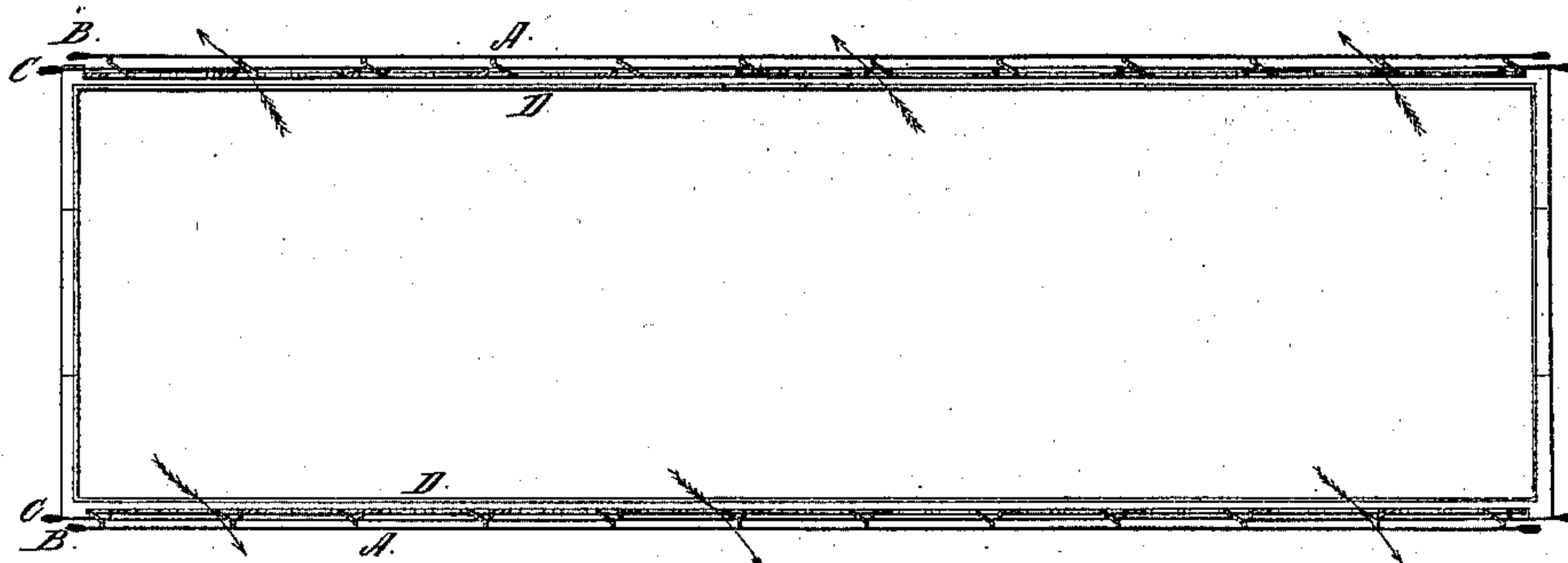


Fig. 2.



UNITED STATES PATENT OFFICE.

EDWARD HAMILTON, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO H. GOODYEAR.

EXCLUDING DUST FROM RAILROAD-CARS.

Specification of Letters Patent No. 8,121, dated May 27, 1851.

To all whom it may concern:

Be it known that I, EDWARD HAMILTON, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a
5 new and Improved Mode of Preventing the Entrance of Dust, Cinders, Smoke, &c., Into Railroad-Cars; and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in
10 providing each window of a rail road car with vertical blinds or screens, on the outside, extending the whole length of the window, to stand open in the direction in which the car is moving at an angle of about
15 forty five degrees with the sides of the car, by means of which a current of air is created from the inside of the car outward, thereby preventing the entrance of dust, cinders, smoke &c. into the same.

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

I construct my rail road car in any of the known forms, and apply thereto all the
25 ordinary appendages of such cars; the space between the windows of the same being about twelve inches, to accommodate the blinds when folded together. But, in order to create a current of air from the inside of the car outward, through the windows, when
30 opened, thereby preventing the entrance of dust, cinders, smoke, &c. into the same, I attach on the outside of the car, the vertical blinds or screens "A, A," to the window frames "D, D," or other adjacent parts, as
35 shown in the accompanying drawings. The blinds are attached to the car by india rub-

ber, or other hinges, extending the whole length of the blinds. To the upper ends
of all the blinds on the same side of the 40 windows, and the lower ends of all the blinds on the opposite sides of the windows, near the outer edges of the blinds, I attach rods ("B," upper rod, "C," lower rod) running the whole length of the car, for the 45 purpose of opening and closing the blinds. The rods are perforated at the places where they are connected to the blinds, and fastened by means of pins ("F") in the ends of the blinds. The upper rod operates one 50 set of blinds, and the lower rod the other set, on the same side of the car. When the car is in motion, I open the blinds by means of the rods, the angle of about forty five degrees which the blinds make with the 55 sides of the car, opening in the direction in which the car is moving. A current of air through the open windows, from the inside of the car outward, is thereby created, the air entering the car through the ventilators 60 "E" on the top of the car, and the entrance of dust, cinders, smoke, &c., into the car thereby prevented.

What I claim as my invention and desire to secure by Letters Patent is— 65

The application of vertical blinds, shutters, or screens on the outside of rail road cars, employing the same to prevent the entrance of dust, smoke, cinders, &c., into the windows of the cars, as herein described.

EDWARD HAMILTON.

Witnesses:

ABIJAH BURROUGHS,
FRANCIS IVES.