

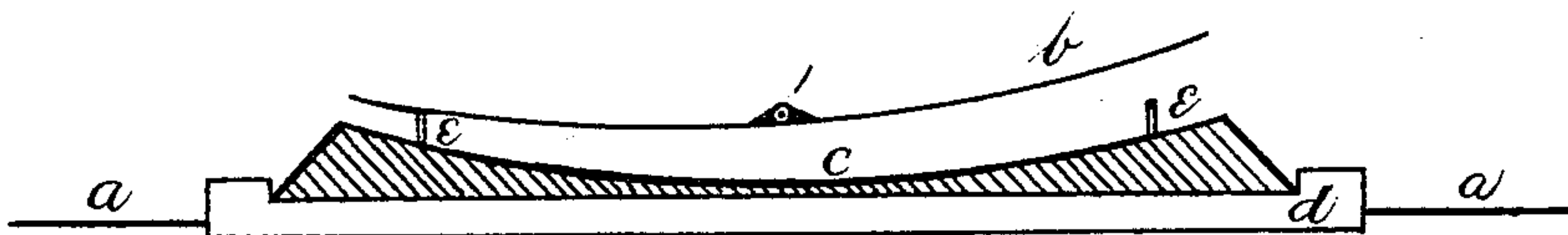
(No Model.)

W. H. PETTINER & J. L. COLCORD.

DUST GUARD FOR RAILWAY CARS.

No. 273,595.

Patented Mar. 6, 1883.



Witnesses.

E. S. Fogg
Edw. L. Whitehouse

Inventors.

Wm. H. Pettiner
Jos. L. Colcord
By Winfield Choate
Their Atty in Fact

UNITED STATES PATENT OFFICE.

WILLIAM H. PETTINER AND JOSEPH L. COLCORD, OF AUGUSTA, MAINE.

DUST-GUARD FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 273,595, dated March 6, 1883.

Application filed May 15, 1882. (No model.)

To all whom it may concern:

Be it known that we, WM. H. PETTINER, and JOS. L. COLCORD, of Augusta, in the county of Kennebec and State of Maine, have
5 invented a new and useful Improvement in Dust-Guards for Railway-cars, which improvement is fully set forth in the following specification and accompanying drawing, which is a sectional view of our invention.

10 Like letters indicate like parts.

The object of our invention is to give the current of air passing the car-window such a direction at the forward side of the window as will blow the dust, cinders, &c., away from
15 the window and prevent any entering the car. It is automatic in its action, being operated by the current of air as the car moves in one direction or the other, and the whole may be covered by the finish of the car, or fastened
20 upon the outside, so as to be removed when not in use.

In the drawing, *d* represents the side of a car, and *a* the windows, with our invention between them. The arrow *n* indicates the di-
25 rection the car is traveling, and the arrows *x* the current of air.

c is a concave base.

b is the centrally-pivoted deflector, convex

upon the inner surface. The current of air operating upon the centrally-pivoted deflector
30 opens it toward the front and closes the back until arrested by the stops *e e*. The centrally-pivoted deflector *b*, being pivoted at the center *l*, is easily operated by the current of air, and, it will be seen, requires no adjustment. The
35 air passing between this centrally-pivoted deflector and the base *c* is deflected by the concave base and given a strong outward direction at the edge of the window. This prevents the dust and cinders entering the window and
40 tends to produce a current of air from the inside of the car.

We claim as our invention—

1. The centrally-pivoted curved deflector
b, in combination with the correspondingly-
45 curved base *c*, as described, and for the purposes set forth.

2. The centrally-pivoted curved deflector
b, in combination with the correspondingly-
50 curved base *c*, having the stops *e e* thereon, as and for the purposes set forth.

WM. H. PETTINER.
JOS. L. COLCORD.

Witnesses:

WINFIELD S. CHOATE,
HARLOW M. HALL.