

(No Model.)

J. H. REYNOLDS.

DUST GUARD FOR RAILWAY CARS.

No. 302,778.

Patented July 29, 1884.

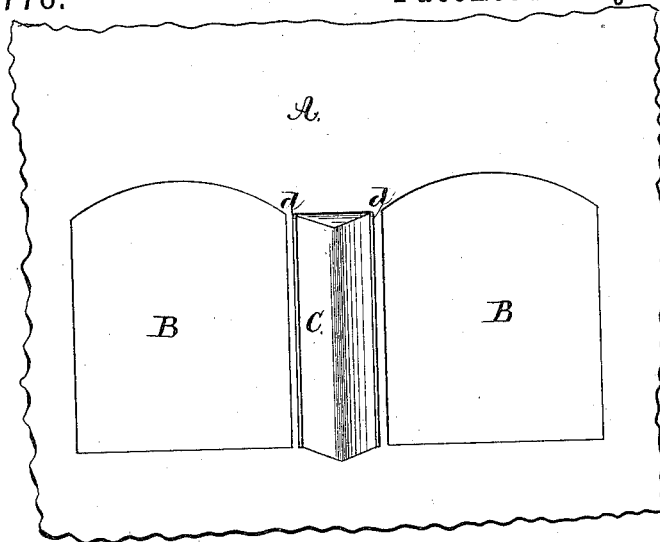


Fig. 1.



Fig. 2.



Fig. 6.



Fig. 7.



Fig. 4.



Fig. 8.



Fig. 3.



Fig. 5.

Witnesses:

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# UNITED STATES PATENT OFFICE.

JOHN H. REYNOLDS, OF TROY, NEW YORK.

## DUST-GUARD FOR RAILWAY-CARS.

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Application filed February 19, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. REYNOLDS, of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Dust-Guards for Railway-Cars, of which the following is a specification.

My invention consists of an attachment, of a prismatic or other analogous form, to be affixed vertically by or between the windows of railway-cars for the purpose of deflecting the dust therefrom, and thereby preventing it from entering the car through the windows, the said attachments being either permanently secured to the sides of the car or removably attached thereto, substantially in the manner herein described.

In the accompanying drawings, which form part of this specification, and to which reference is made herein, Figure 1 is a side elevation of part of a side of a car containing two adjacent windows provided with my improved dust-guard; Fig. 2, a plan view of same; Fig. 3, a perspective view of the back of my dust-guard detached from the car; Fig. 4, a horizontal section of same; Fig. 5, a perspective view of the front of fastening-plate for same; Figs. 6 and 7, horizontal sections of modified forms of my dust-guard, and Fig. 8 a horizontal section of a modified form of the dust-guard and fastening-plate.

As illustrated in the drawings, A indicates the side of a car, B the car-windows, C the dust-guard, and D the fastening-plate.

The car A and windows B, which constitute no part of my invention, are made in any of the common and well-known forms. The dust-guard C, I preferably make hollow, in the form of a prism whose outer or projecting faces have a slight concavity, as shown in Figs. 2 and 4; but, when preferred, the cross-sectional form may be changed to the shapes shown in Figs. 6 and 7, or into any similar shape that will serve to deflect the dust and air away from the side of the car when the latter is moving in either direction, and without manipulating the dust-guard to effect that purpose. On its rearmost side the dust-guard C is provided with openings or pockets *e*, for

the purpose of engaging with hooks or other catches to secure said dust-guard in place to the side of a car. The fastening-plate D is provided with projecting side flanges, *d*, which form "break-joints" for preventing the air and dust from passing between the back of the dust-guard and the side of the car. Said fastening-plate is also provided with hooks *d'*, or other catches, for engaging with openings *c* to secure the dust-guard C in place. The dust-guards C are placed in a vertical position between all the windows on the sides of a car, and on the outer space adjoining the side windows that are next to the ends of the car; and, when preferred, said dust-guards, either hollow or solid, may be permanently secured to or form part of the siding of a car; and in such cases the fastening-plates D, as a means for attaching said dust-guards, may be dispensed with. By making the exposed faces of the dust-guards in the angular or curved forms shown in the drawings, so that the parts thereof that lie next to the windows will both be of the same, or nearly the same, form, I produce a simple device that is most effective in its operation, and always ready, without any preparatory manipulation, for immediate action with any change in the direction of the movement of the car to which it is attached. By this improvement all of the usual hinges, catches, and other appliances required for adjusting and securing hinged or swinging dust-guards into positions for effecting their functions are dispensed with, and thereby a source of great trouble, annoyance, and expense is avoided. When the car is in motion in either direction, the exposed surfaces of the dust-guards, whether angular or curved, will deflect all the dust and air currents away from the vicinity of the windows and force them to pass outwardly from the sides of the car.

In Fig. 8 I have shown a modification of the forms of the dust-guard and fastening-plate, wherein the dust-guard C is provided with lateral side flanges, *c'*, which are adapted to slide into grooves formed by the overlapping-flanges *d'* of the fastening-plate D.

What I claim as my invention is—

1. A stationary dust-guard arranged verti-

cally between the windows of a railway-car, and having two deflecting-surfaces of the same general configuration united to form a central crown, whereby currents of air and dust are  
5 deflected sidewise from the car-windows, substantially as herein specified.

2. The combination, with the side of a railway-car, of a dust-guard exterior thereto, and

provided with offsets engaging with similar ones upon the car-side, whereby the dust-guard is vertically detachable, substantially as herein specified.

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