

J. B. PROHIAS.

SAFETY APPARATUS FOR RAILROADS.

No. 174,437.

Patented March 7, 1876.

Fig. 1

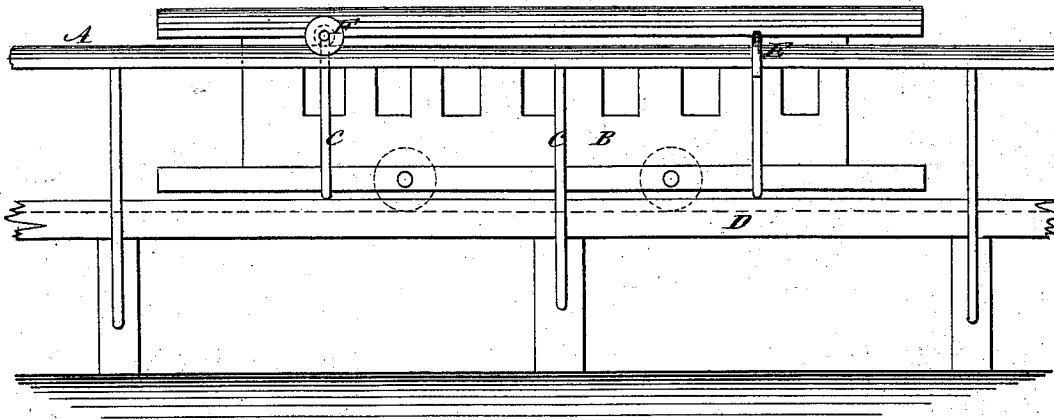
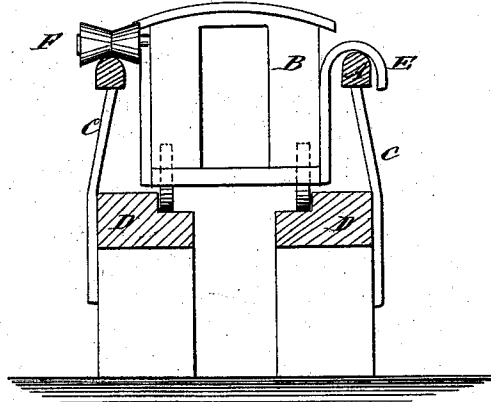


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE

JOHN B. PROHIAS, OF NEW YORK, N. Y.

IMPROVEMENT IN SAFETY APPARATUS FOR RAILROADS.

Specification forming part of Letters Patent No. **174,437**, dated March 7, 1876; application filed December 4, 1875.

To all whom it may concern:

Be it known that I, JOHN BOSCH PROHIAS, of the city, county, and State of New York, have invented a new and Improved Safety Apparatus for Railroad-Cars, of which the following is a specification:

My invention consists of an elevated rail at each side of the track with hook-shaped or grooved roller projections attached to the car, and arranged in such relation with the rails that in case the main rails sink or otherwise fail, or the car wheels or axles break, the cars will catch on these side rails by the projections, and thus be prevented from injury. The contrivance is also designed to be such that in crossing swamps, rivers, and other places where the ordinary rails cannot be well laid, the cars may run altogether by the grooved wheels on the guard-rails, the latter being firmly supported on the piles, and the wheels being suitably connected with the power.

Figure 1 is a side elevation of my improved safety apparatus applied to an ordinary railway and car. Fig. 2 is a sectional elevation.

Similar letters of reference indicate corresponding parts.

A represents the elevated safety guard-rails, which are supported at the sides of the car B on strong piles or other supports C, either connected with the structure D of the permanent way, or supported independently on the ground. E represents hooks, and F guard-wheel projections from the body of the car in such relation to the rails A that they will catch on said rails and support the car thereon in case of any failure of the permanent rails or the car-wheels, and thus save the damage that commonly follows such failure.

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

A railroad-track provided with superposed guard-rails A to adapt it to support cars on side hooks or rollers E at the times and in the manner described.

JOHN BOSCH PROHIAS.

Witnesses:

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