

(No Model.)

S. BRISAC.  
Wheel-Guard.

No. 226,970.

Patented April 27, 1880.

Fig. 1

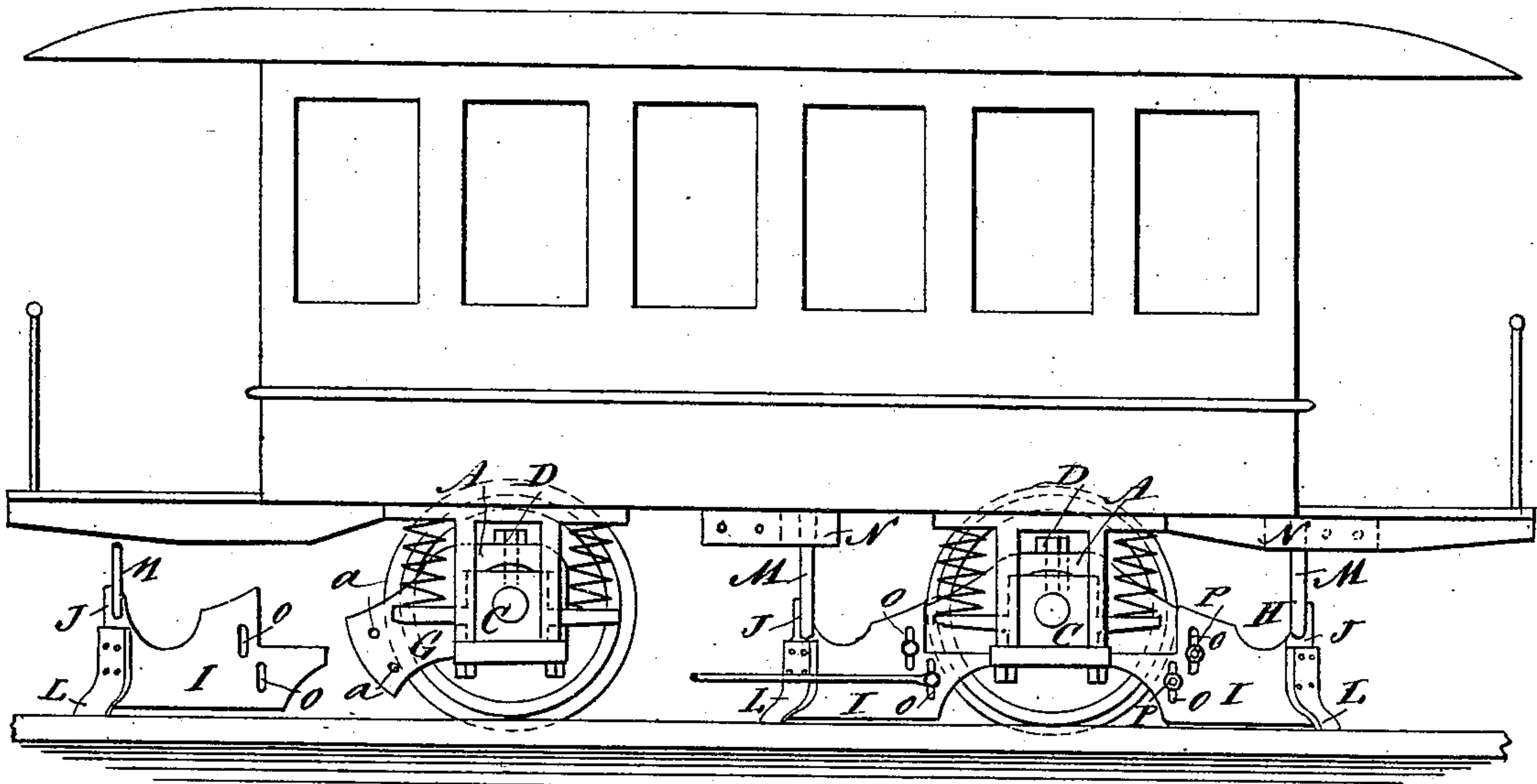


Fig. 3

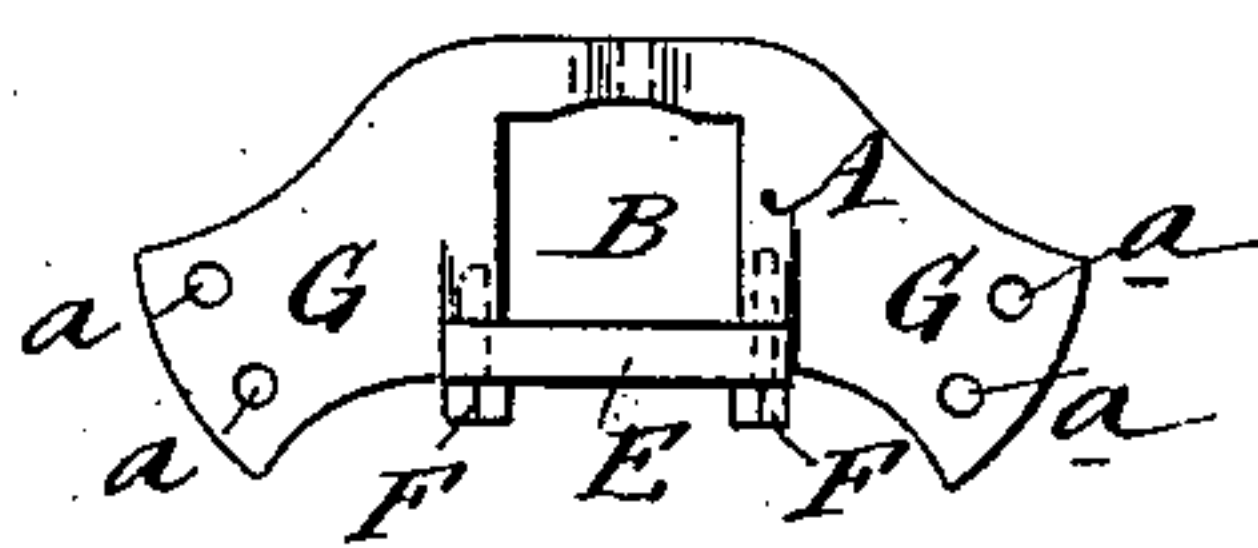
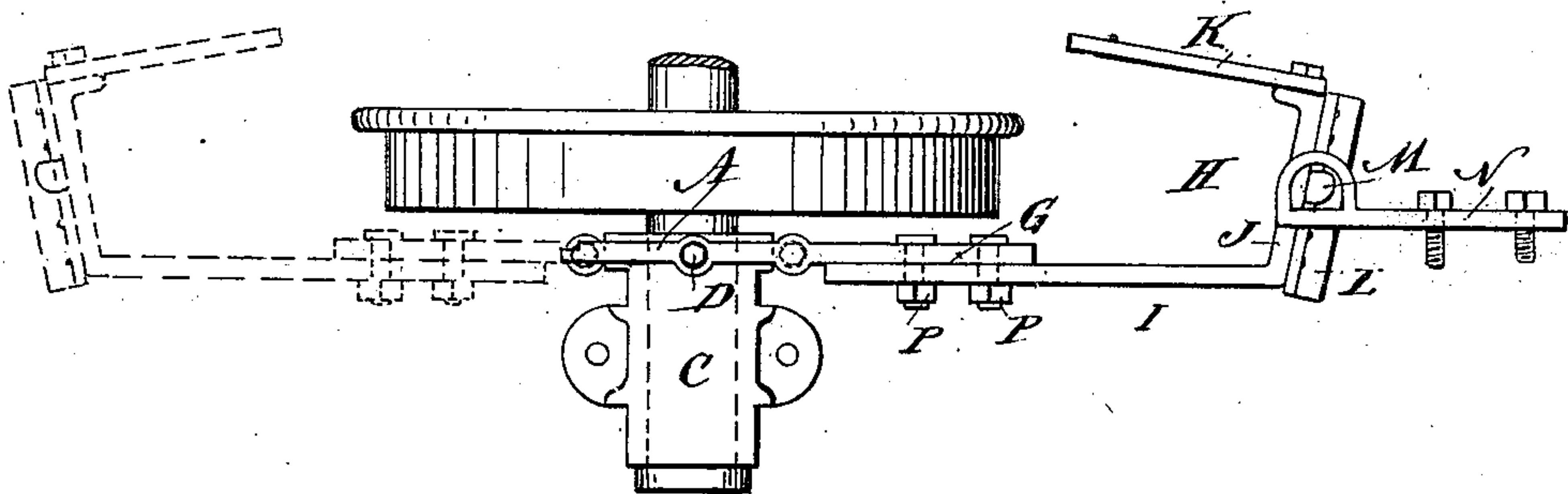


Fig. 2



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## WHEEL-GUARD.

SPECIFICATION forming part of Letters Patent No. 226,970, dated April 27, 1880.

Application filed March 16, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, SOLOMON BRISAC, of the city, county, and State of New York, have invented a new and Improved Wheel-Guard, of which the following is a specification.

The object of my invention is to provide a new and improved wheel-guard which will push any obstacles on the track aside, and which guard can be adjusted to a greater or less height above the rails.

The invention consists in a wheel-guard formed of a metallic box with a beveled front side, which box is adjustably fastened to the front end of a recessed plate resting on and partially surrounding the grease-box. The box is braced by means of a rod attached to its forward end and passing into a socket fastened to the bottom of the car.

In the accompanying drawings, Figure 1 is a side elevation of a car provided with my improved wheel-guard, showing the same attached at the front and rear of the wheel, and also showing the box or shoe detached. Fig. 2 is a plan view of the wheel, the grease-box, and the wheel-guard attached thereto. Fig. 3 is a side elevation of the recessed plate resting on the grease-box.

Similar letters of reference indicate corresponding parts.

A metal plate, A, provided with a recess, B, in the lower edge, is placed onto the grease-box C of a car-axle in such a manner that the grease-box C passes into the recess B in said plate. The plate is secured to the grease-box by means of the screw D passing through the top of the plate A, and by the transverse piece E, which passes under the grease-box and is secured to plate A by the screws F F. The ends G G of the plate A are preferably inclined downward, and are provided with apertures *a a* near the edge.

A box, H, is formed of the outer side, I, a front side, J, having an inclination from the front of the center of the car toward the sides, and of an inner side, K, which may be parallel with the outer side, I, or may be at right angles to the front J, as may be desired.

The several sides may be connected with each other by means of angle-irons and rivets or bolts, or may be made integral with each other.

The front J is beveled outward near the lower edge, and is covered with a layer, L,

of rubber or like elastic material. A bar or rod, M, is attached to the front side, J, and passes up into a rocket, N, attached to the bottom of the car, thus bracing the box H against side movements.

The rear end of the outer side, I, of the box H is provided with two vertical longitudinal slots, O O, and is attached to the end of plate A by means of screw-bolts P P, which pass through the slots O and the apertures *a a* in the end G of the plate A.

The plate A may rest on the inner or outer end of the grease-box, as may be desired. A box, H, may be attached to each end of the plate A, or only to the end toward the platform or end of the car.

The plate A will remain fixed on the grease-box C, and the boxes H H can be attached or detached whenever desired, and can be adjusted to a greater or less height above the rails by means of the bolts P P and the slots O O.

The within-described device possesses the great advantage that the boxes H, which are more liable to be damaged than any other parts, can be removed readily without taking the entire apparatus from the car.

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

1. A wheel-guard made substantially as herein shown and described, and consisting of a recessed plate resting on the grease-box, a metal box adjustably attached to said plate by means of bolts, and having a bracing-rod passing into a socket on the bottom of the car attached to its front end, as set forth.

2. In a wheel-guard, the combination, with the recessed plate A, of the grease-box C and the box H, adjustably attached to said plate A, substantially as herein shown and described, and for the purpose set forth.

3. In a wheel-guard, the plate A, constructed substantially as herein shown and described, with a recess, B, on its lower edge, and apertures *a a* at the ends, to receive bolts P P, whereby a shoe or box, H, can be fastened to the plate A, as set forth.

SOLOMON BRISAC.

Witnesses:

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