

J. G. BURKHARDT.
Car-Replacers.

No. 144,188.

Patented Nov. 4, 1873.

Fig. I.

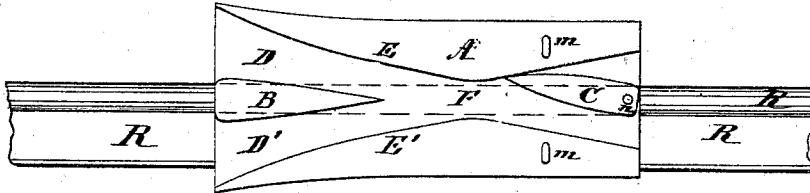


Fig. II.

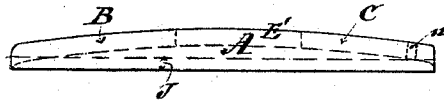
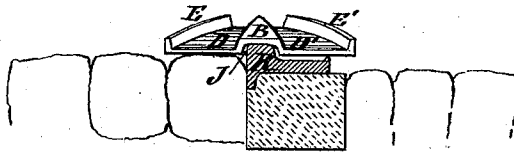


Fig. III.



Witnesses.

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IMPROVEMENT IN CAR-REPLACERS.

Specification forming part of Letters Patent No. 144,188, dated November 4, 1873; application filed October 8, 1873.

To all whom it may concern:

Be it known that I, JOHN GEORGE BURKHARDT, of Brooklyn, in the State of New York, have invented a new and Improved Car-Replacer, of which the following is a full and exact description, reference being had to the accompanying drawing, where—

Figure I represents a plan or top view of the car-replacer embodying my invention. Fig. II is a side view, and Fig. III a front view, of the same.

This invention is particularly intended for street-railroads; and consists in the construction of a portable shoe or frog fitting upon the rail, and provided with suitable grooves, in combination with a pivoted tongue, whereby the wheels can be easily run into the grooves, and, by means of the pivoted tongue, directed in the desired position.

A represents the shoe or frog, provided on its forward end with two grooves, D D', formed by the raised sides E E' and the central division-tongue B. Near the middle of the shoe these two grooves join into one groove, F, and then flare and spread out toward the after end of the shoe. In the center or middle part of this bell-mouthed part, at the after end, a tongue, C, is pivoted, at *n*, to the shoe, by the position of which the continuation of the groove F may be made either toward one or the other side. In the under side of the shoe a groove, J, is made, fitting over the rail R, or over the raised part of the same. On the top of the raised sides E and E', eyebolts *m m* are arranged, for the purpose of raising the shoe by means of a hook.

When the wheels of a car have run off of

the track or rail, this shoe is placed upon the rail before the wheel, when the same can easily be run upon the groove D, and, as the pivoted tongue C has been moved toward the side E, the wheel will easily pass again into the rail R. Should both wheels have left the track, this shoe is, after the forward wheels have been moved again into the rail, placed between the wheels, when in the same manner the hind wheels can easily be brought back again into their proper position.

From the peculiar construction of street-railways, only the wheel outside of the track requires to be operated on and assisted in passing over the rail; consequently one shoe only will be required for each car.

In case of fire or other accidents in the street, it is sometimes desired to move the car out of the track and to pass into another track. In that case the pivoted tongue C must be moved toward the side E', the shoe placed before the wheel, and the same run into the groove D', and then, passing over the shoe, the same will come outside of the rail R.

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

The portable shoe or frog A, herein described, having a longitudinal groove, J, on the under side, and grooves D, D', F, and G on its upper surface, in combination with a pivoted tongue, C, substantially as and for the purpose set forth.

JOHN GEORGE BURKHARDT.

Witnesses:

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