

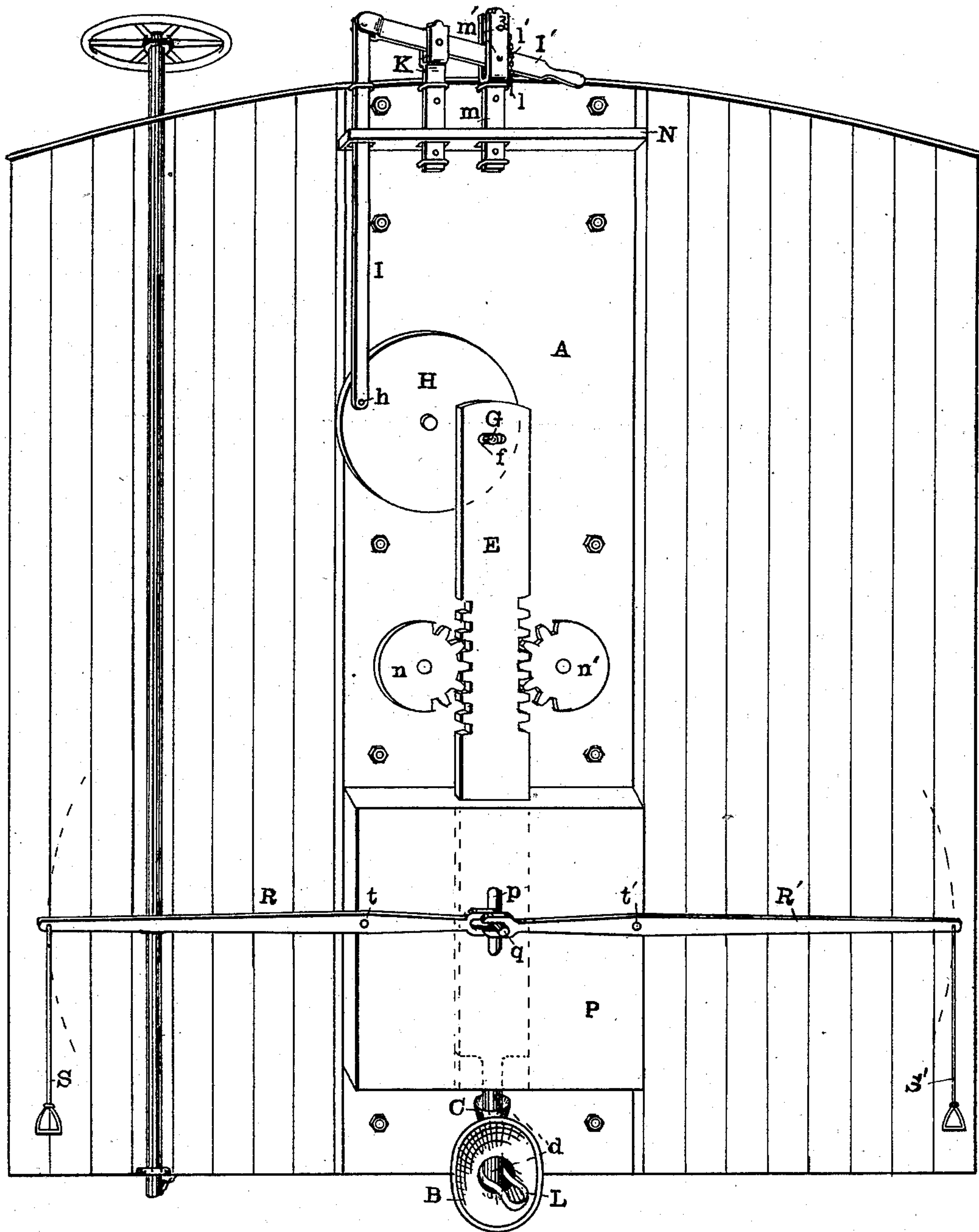
(No Model.)

J. H. McCORMICK

CAR COUPLING.

No. 316.800.

Patented Apr. 28, 1885.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN HOWARD McCORMICK, OF NEW ORLEANS, LOUISIANA.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 316,800, dated April 28, 1885.

Application filed October 29, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN HOWARD McCORMICK, a citizen of the United States, and a resident of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Car-Couplings; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawing, making a part of this specification.

This invention relates to a coupling having means whereby the same can be operated from the top of a car or from either side thereof.

The merits of the invention will be fully understood by referring to the accompanying drawing, whereon the same is clearly shown in connection with one end of a car.

On the drawing, A designates a foundation plate or board, to which the whole apparatus is affixed before securing same to the car.

B is a draw-head, the pin-hole of which is provided with a funnel-shaped guide, C, in which operates the lower end or pin, *d*, of a vertical bar, E, the upper end of which is provided with a slot, *f*, for the reception of the pin G of a centrally-pivoted disk, H, to which is also connected by a pin, *h*, a connecting-rod, I, that is pivoted to and operated by a lever, I'. The latter, having its fulcrum in a standard, K, can be held in an elevated or depressed position by a pin, *l*, which is suspended by a chain, *l'*, from a standard, *m*, the upper portion of which is provided with perforations *m'*, in which said pin is adapted to fit.

N is a platform, on which the operator can stand, if desired.

The bar E has each of its sides provided for a limited distance with teeth, into which are geared the teeth of pivoted disks *n n'*, that serve as guides to prevent the jamming of same in the casing P, the latter adapted to be secured over the lower portion of the aforesaid bar.

L is an ordinary coupling-link, and is secured in position by the pin *d* of the vertical bar E.

Only a portion of the peripheries of the disks *n n'* is provided with teeth, as the movements of same are limited to the stroke of the bar E.

The face of the casing P is provided with a vertical slot, *p*, the length of which is about equal to the stroke of the bar E, in order that a pin, *q*, projecting from said bar, may operate therein. The pin *q* is made sufficiently long to be engaged by the overlapping forked or slotted ends of a pair of levers, R R', which are pivoted near the outer edges of the casing, as shown at *t t'*. The opposite ends of these levers project to within reach of the outer sides of the car, and are provided with suspended handles S S', to permit of their being operated from the ground.

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

1. The combination, in a car-coupling, of a vertically-operating coupling-bar having side teeth or racks, as described, with a pair of pivoted disks having teeth adapted to engage those of the coupling-bar, substantially as and for the purpose set forth.

2. In a car-coupling, the combination of the bar E, having side teeth, as described, and the pivoted disks *n n'*, having teeth adapted to gear therein, with the casing P and disk H, the latter provided with means for operating same, substantially as set forth.

3. In a car-coupling, the combination of a vertical bar provided with side teeth and coupling-pin, as described, the disks *n n'*, having teeth adapted to engage those of the bar, the casing P, provided with slot *p*, and the levers R R', having forked or slotted ends adapted to engage a pin projecting from the bar and through the aforesaid slot, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

JNO. HOWARD McCORMICK.

Witnesses:

P. M. HILL,  
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