

W. P. MURPHY.
CAR RELEASE RIGGING.
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1,002,430.

Patented Sept. 5, 1911.

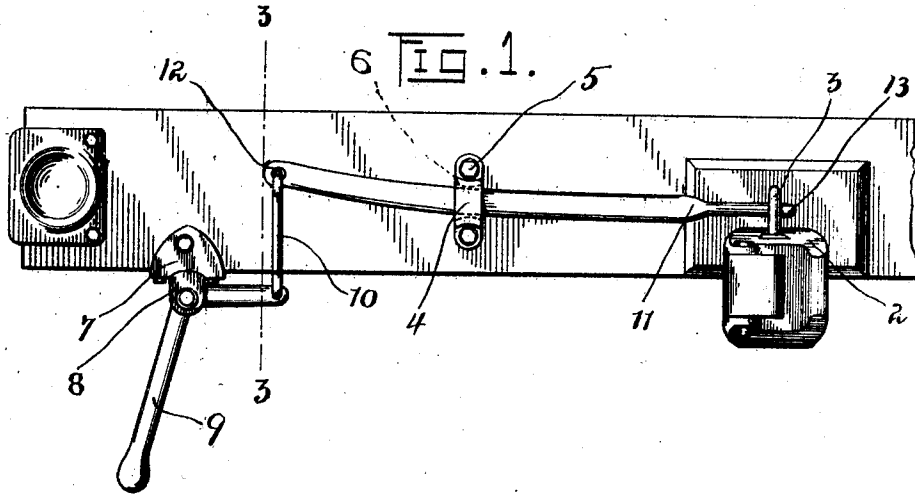


Fig. 2.

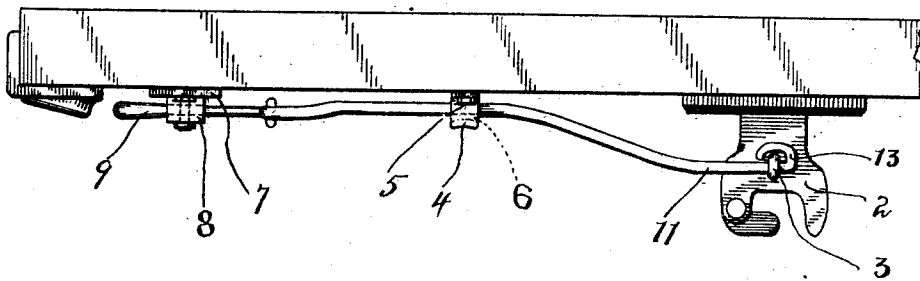
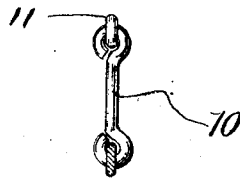


Fig. 3.



Witnesses
T. Fitzhugh Knox
J. M. Dyukoope

Inventor
Walter P. Murphy
By J. W. S. Clarkson
Attorney

UNITED STATES PATENT OFFICE.

WALTER P. MURPHY, OF ST. LOUIS, MISSOURI.

CAR-RELEASE RIGGING.

1,002,430.

Specification of Letters Patent.

Patented Sept. 5, 1911.

Application filed September 28, 1909. Serial No. 520,050.

To all whom it may concern:

Be it known that I, WALTER P. MURPHY, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Car-Release Riggings, of which the following is a specification.

In the drawing, Figure 1 is an end elevation of an end sill of a car with my rigging in position on the end sill; Fig. 2 is a top plan view of the same. Fig. 3 is a sectional view on the line 3—3, Fig. 1.

1 represents the end sill of any approved pattern, 2 the coupler and 3 the locking pin. 4 is a casting secured to the end sill by means of the bolts 5. This casting is provided with a slot 6 having flaring ends, whereby the slot is wider at the ends than in the middle, the object of which will be hereinafter pointed out.

7 is a casting secured to the end sill having depending lugs 8 between which is pivoted a bell crank hand-operated lever 9 depending below the end sill as shown. The shorter arm of the lever 9 is perforated and one end of a link 10 is secured in this perforation in such manner that it has a free movement.

11 is the pin operating lever, the outer end of which is provided with an opening 12 in which the upper end of the link 10 is secured in such manner as to have a free movement. The inner end of the lever 11 is reduced in diameter for some distance to adapt it to slide freely in the eye of the locking pin 3 to provide for the sidewise movement of the draw bar, the extreme inner end of the pin lever being formed into a hook 13 to prevent its becoming accidentally disengaged from the pin.

The lever 11 is passed through the slot 6

in the casting 4 and is free to slide therein, thus said lever may be termed a floating lever. This lever by reason of its sliding engagement in the slot 6 of the casting 4, and by reason of its link connection with the hand lever 9 is free to slide endwise to accommodate the sidewise movement of the draw bar and by reason of the flaring ends of the slot 6, it is free to accommodate itself to the backward and forward movement of the draw bar. The contracted portion of the slot 6 prevents the lever from becoming twisted in lifting; therefore, the lever is always free to move. The upper and lower faces of the slot 6 are rounded as shown in dotted lines in Fig. 1. There is practically no weight of the pin lever 11 on the casting 4, except when operating, because it is held in suspension between the locking pin and link 10 due to the weight of the lever arm 9. The endwise movement of the pin lever 11 does not affect the normal position of the hand lever.

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

A release rigging comprising a bell crank lever, a floating locking pin lever, a link forming a connection between the bell crank lever and the outer end of the locking pin lever, and a combined guide and fulcrum for said locking pin lever on which the lever is free to slide.

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

WALTER P. MURPHY.

Witnesses:

FRANK H. REYNOLDS.
E. S. CLARKSON.