(No Model.)

A. ROMAIN.

CAR COUPLING.

No. 410,928. Patented Sept. 10, 1889.

Fig. 1.

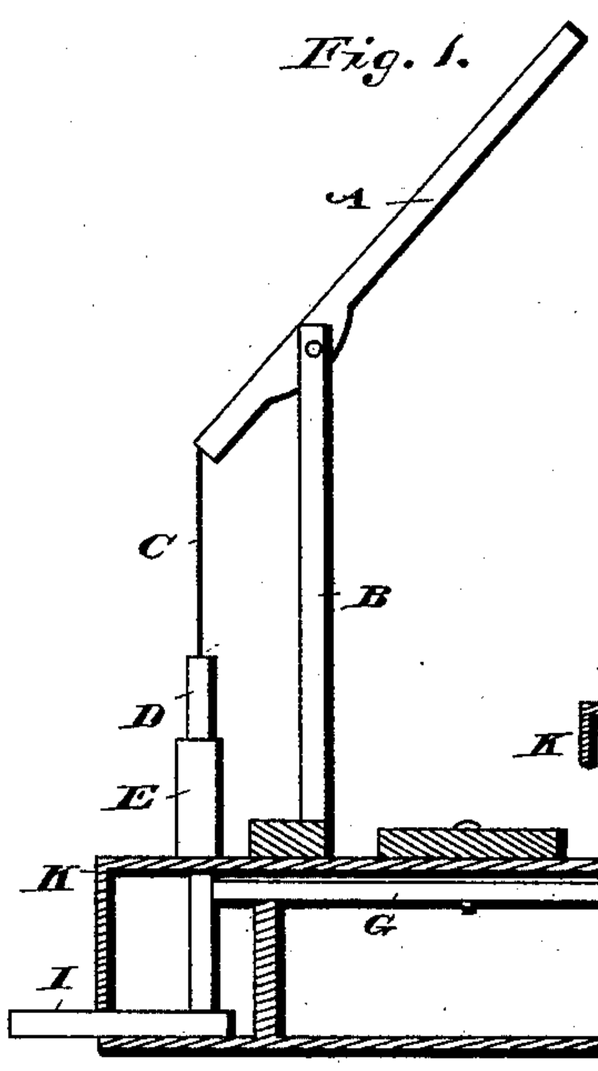


Fig. 2.

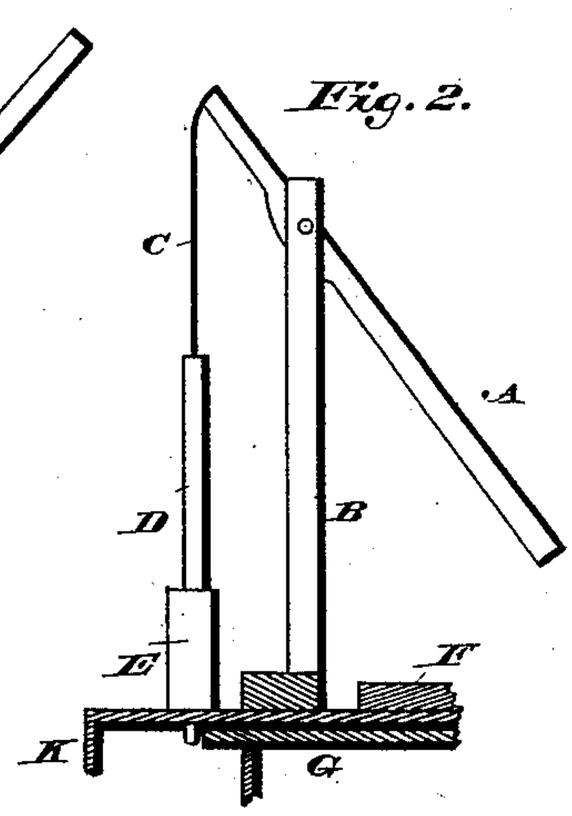


Fig. 3.

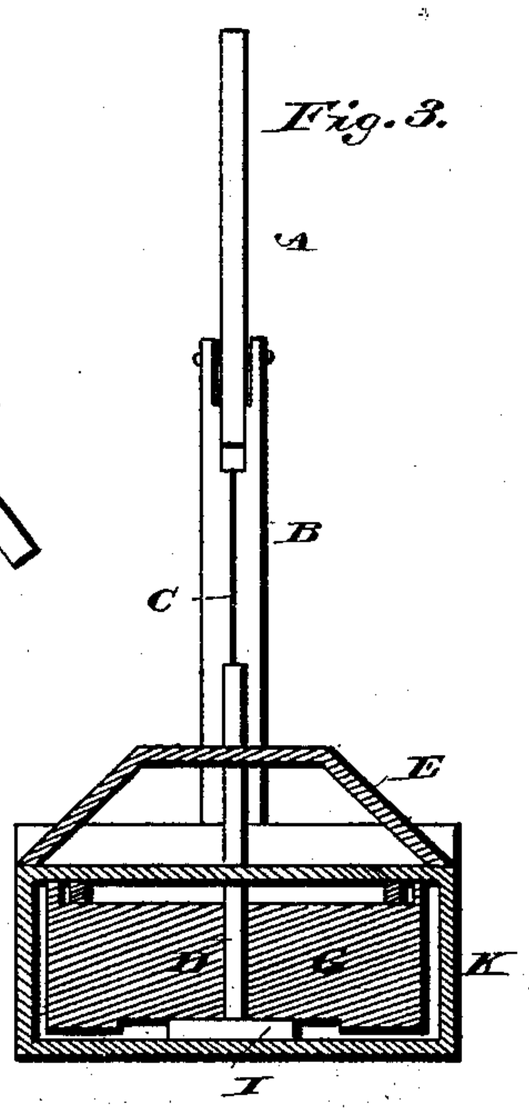


Fig. 4.

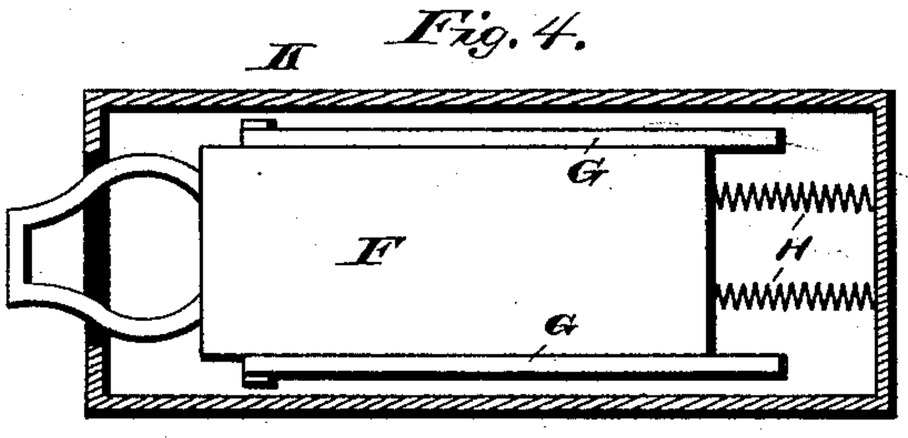


Fig. 5.

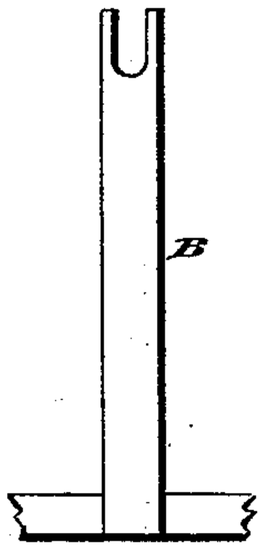
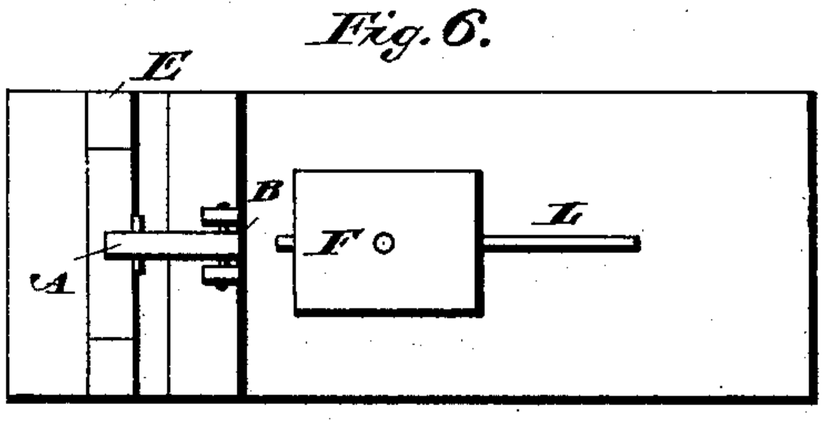


Fig. 6.



Witnesses:

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James J. Shuehy.

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UNITED STATES PATENT OFFICE.

ARISTIDE ROMAIN, OF NEW ORLEANS, LOUISIANA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 410,928, dated September 10, 1889.

Application filed November 19, 1888. Serial No. 291,301. (No model.)

To all whom it may concern:

Be it known that I, ARISTIDE ROMAIN, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in a Car-Coupler; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in a car-coupler in which a lever with a coupling bolt or pin attached thereto is made to operate in conjunction with a coupling ring or link; and the objects of my improvements are to provide a device for coupling cars that can be worked automatically and avoid the necessity of going between cars to couple same. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side sectional view with bolt coupled. Fig. 2 is a side sectional view with bolt elevated or uncoupled. Fig. 3 is a front view showing position of bolt when coupled. Fig. 4 is a sectional top view showing interior of device. Fig. 5 is a front view showing position of arm which holds lever. Fig. 6 is an exterior top view.

Similar letters refer to similar parts throughout the several views.

In constructing my coupler I take a lever, as shown by A, and adjust to arm B, attaching chain C to lever A, also coupling bolt or pin D to chain C. At E, I place a stay-piece with opening in center, which permits coupling bolt or pin D to be raised or lowered readily. At F, I place a slide which is securely adjusted to sliding bar G. At H, I place metal rings, which form springs, and which are adjusted to G and frame K, I being a coupling bolt or ring, and L a slot in which bolt of slide F moves back and forth.

In operating my device, I adjust same to one end of each car. Frame K, being of heavy metal and securely bolted to car, forms a draw-bar. On the opposite end of car I use the coupler now in use, except that I substitute my coupling-link I. In coupling cars I raise lever A to position as shown in Fig. 2. As coupling-link I is forced against sliding bar G, coupling-pin D descends and occupies the position as shown in Figs. 1 and 2.

In making up a train of cars, should two cars be on the track with my device on end of cars that are to be coupled, and to avoid switching cars in order that end of car with old coupler may be coupled with my device, I simply raise lever A on one car and place link I in position, and as link I is forced against G on the car in front or rear, cars are coupled.

A striking advantage of my device is that brakemen are not required to go between cars to couple or uncouple them.

My lever may be of any desired length, and may be placed either on top or side of car; but I recommend the adjustment to top of car, as it enables one brakeman to couple a number of cars in a short space of time.

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

In a car-coupling, the combination, with the draw-head constructed as described and provided with the longitudinal slot L in the roof thereof, of the slide-bar G, arranged within the draw-head and having a front vertical portion, as shown, the slide-block F on the outside of the head and secured to the bar G by a bolt passing through the slot, the standard B, the hand-lever pivoted thereto, the pin secured to the lever, the frame E, secured to the forward upper end of the head and having an aperture for the passage of the pin, and the springs backing the slide-bar, substantially as specified.

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

ARISTIDE ROMAIN.

Witnesses:
PERCY D. PARKS,
ARNOLD ROMAIN.