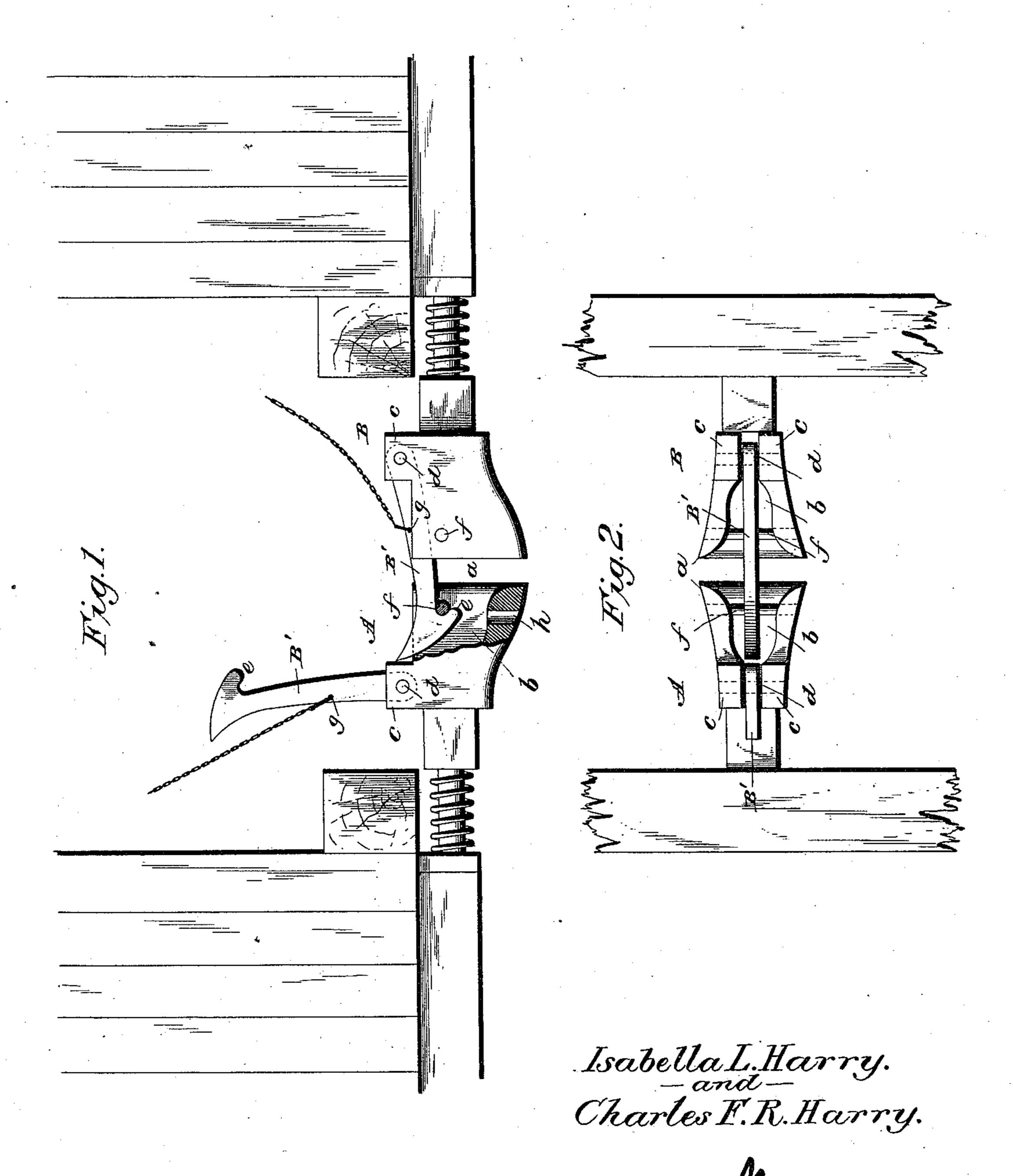
(No Model.)

I. L. & C. F. R. HARRY. CAR COUPLING.

No. 418,616.

Patented Dec. 31, 1889.



Witnesses L. S. Olliott. Inventor
By his Attorneys

United States Patent Office.

ISABELLA L. HARRY AND CHARLES F. R. HARRY, OF WEST SALEM, OHIO

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 418,616, dated December 31, 1889.

Application filed September 12, 1889. Serial No. 323,746. (No model.)

To all whom it may concern:

Beitknown that we, Isabella L. Harry and CHARLES F. R. HARRY, citizens of the United States of America, residing at West Salem, 5 in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Car-Couplings; and we do hereby declare the following to be a full, clear, and exact description of the invention, such ro as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specifica-15 tion.

Our invention has reference to car-couplings; and it consists in the improved construction hereinafter described and set forth, whereby a simple and efficient arrangement 20 is provided whereby cars may be readily coupled and uncoupled.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view, partly broken away, showing a carcoupling embodying our improvements; and Fig. 2 is a plan view.

The two draw-heads are designated by the letters A B, and each has a head portion proper a, enlarged, as shown, and each re-30 cessed to present the coupling-chamber b, which is open at its top. Each head portion α is provided on its upper side, at the rear of the coupling-chamber, with a pair of ears c, through which passes a pin d, upon which is 35 pivotally mounted a hook-shaped connectinglink B', the free portion of which extends longitudinally through the coupling-chamber and terminates in a hook e. The links of the respective heads are pivoted in longitudinal line with each other, as shown in Fig. 2, and are each designed to have their hook extremities engage a pin f, located transversely in the chamber of the other head, each of said pins f also serving as a support to maintain the link of its respective head in proper longitudinal position. The outer ends of the links are inclined, so that as said draw-heads approach each other the inclined faces will

contact with the opposite pin f, and thereby

Each link is provided with a perforation g to l

50 be automatically raised to hook over the same.

engage the hook on the end of a chain led to the top of the car or to the brake-shafts to enable said links to be lifted out of engagement and disconnected. The bottom of each 55 chamber is provided with a perforation h, out of vertical alignment with the other parts, so that a pin may be dropped therethrough when one of the draw-heads is to be coupled with a draw-head using the ordinary open 60

link and pin.

By having the top of the draw-head open it will be understood that the parts are much simplified and the engaging-hooks free and unobstructed in their movements. The pivot- 65 connections are such that they may be readily removed, so that the hooks can be readily detached in the event of coupling with an openlink device. It will of course be comprehended that only one link is in an engaged 70 position at one time, the other being thrown in an inoperative position, this arrangement answering all requirements and enabling one man to disengage the connection.

Another important feature connected with 75 our improvement consists in the fact that the link of each coupling is pivoted at the rear of the coupling-chamber and at the top of the draw-head, the forward transverse rod being located in a much lower plane. By this ar- 80 rangement the front deflecting-face of the link can be formed at a greater pitch, and the engaging-recess greatly reduced, and yet serve to effectually couple the parts. Moreover, the tendency of the link will at all times be to 85 occupy a downwardly-extended position, the enlarged head acting to cause the link to operate by gravity without the necessity of having the link curved or bent to secure compactness, as in prior constructions.

We claim—

In a car-coupling, the combination, with a draw-head having an open top and couplingchamber and provided with parallel ears cc on its upper side at the rear of the coupling- 95 chamber, of a longitudinal link extending beyond said coupling-chamber and terminating in a hook, the other end of said link being snugly pivoted at the rear of the couplingchamber between said parallel ears cc, a roc transverse pin secured within the couplingchamber in a lower plane than the link-pivot

to support said link and serving to engage the corresponding pin of a similar draw-head, together with said similar draw-head having its corresponding hooked link in the same lon-5 gitudinal plane, and devices for independently operating said links, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ISABELLA L. HARRY. CHARLES F. R. HARRY.

Witnesses:

H. L. WATSON, R. E. BAKER.