

(No Model.)

A. BENOIT.  
CAR COUPLING.

No. 265,565.

Patented Oct. 10, 1882.

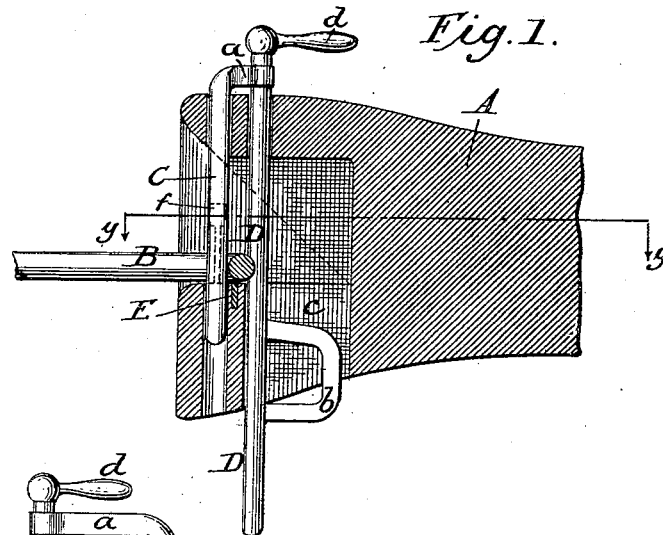


Fig. 1.

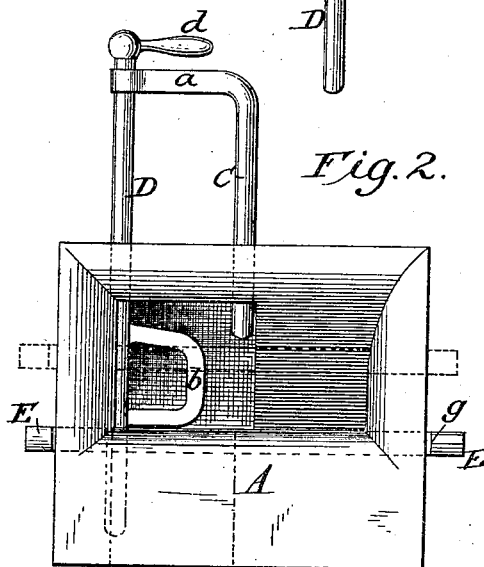


Fig. 2.

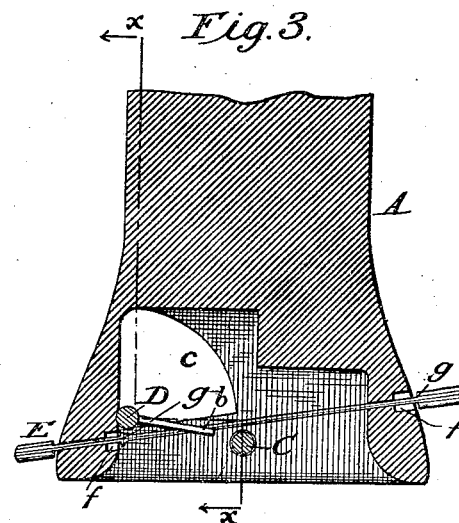


Fig. 3.

Attest.

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# UNITED STATES PATENT OFFICE.

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## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 265,565, dated October 10, 1882.

Application filed May 31, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ANTOINE BENOIT, of Dunham, in the county of Missisquoi, Province of Quebec, Canada, have invented certain Improvements in Car-Couplings, of which the following is a specification.

The objects of my invention are to produce an automatic coupling adapted for the ordinary coupling-links which may be adjusted and controlled from the platform or the side of the car, which will admit of the link being maintained in the required position to enter the opposite draw-head, and which will prevent the coupling-pin from being disengaged accidentally.

With these ends in view the invention consists, first, in combining with the coupling-pin a vertical sustaining-pin of peculiar form and arrangement, and in mounting in the draw-head a transverse vertically-movable bar as a means of raising the coupling-link.

Figure 1 is a longitudinal vertical section through the center of my draw-head on the line *x x*; Fig. 2, a front elevation of the same; Fig. 3, a horizontal section on the line *y y*.

A represents the draw-head, made with a flaring or bell-shaped mouth to admit the end of an ordinary coupling-link, B.

C represents the coupling-pin, arranged to descend vertically through the link, as usual, being mounted in a vertical hole in the head.

In order to sustain the coupling-pin in a raised position until the link has entered and then cause its descent, I bend the upper end of the pin laterally, as shown at *a*, and mount this end or arm loosely around a second vertical pin or rod, D. The rod D slides freely through a hole in one side of the draw-head, and is provided at its lower end with a lateral arm or plate, *b*, which descends into a quadrant-shaped recess, *c*, made for the purpose in the lower side of the head, as shown. By lifting the rod D it is caused to lift the coupling-pin, and at the same time its arm *b* is raised out of the recess in such a position that it may be turned forward and rested on the lower side of the mouth or opening in the head, as shown in Figs. 2 and 3. When thus adjusted the arm *b* sustains the rod D in its elevated position, the rod in turn sustaining the coupling-pin. The coupling-link in entering the head encounters the arm *b* and turns it backward over the recess *c*, into which it descends, permitting the rod D to fall and the coupling-pin to pass down through the link. The end of the link

will pass over or above the arm *b*, and thereby tend to hold it down, and thus prevent the coupling-pin through the intermediate connection from rising accidentally.

The upper end of the rod D is provided with an arm or handle, *d*, by which it may be turned to adjust the arm *b* and force the same against the rear end of the link, when required, to aid in adjusting the same. The recess *c* is made of the quadrantal form to admit of the arm *b* swinging horizontally, as required.

In order that the attendant may control the position of the link already mounted in the draw-head, so as to direct the same in the act of coupling into the opposite head, I mount transversely in the lower part of the draw-head a bar, E. This bar is seated in vertical slots, so that it may drop down flush with the interior of the head or be raised at will therein.

The slots are provided at their upper ends with shoulders or enlargements *f*, and the bar E provided with shoulders *g*, so that after raising the bar it may be upheld by moving it endwise until the shoulders *g* engage over the shoulders *f*.

It will be observed that the bar has its ends extended outside of the draw-head, so that it may be operated without exposing the hands. By means of this bar, aided, when necessary, by the arm *b*, the attendant is enabled to adjust and maintain the link in any position demanded.

Having thus described my invention, what I claim is—

1. In combination with the draw-head having the recess in its lower side, the vertical coupling-pin and the vertical sustaining-pin provided with arm *b*.

2. The draw-head and its coupling-pin, in combination with the rotary pin D, provided with the arm *b*, and with an external arm or handle, whereby the arm *b* may be forced against the coupling-link.

3. In combination with the draw-head having the mouth or opening to receive the coupling-link, the transverse vertically-movable bar E, mounted in the head.

4. In combination with the draw-head having the vertical slots and shoulders, the movable bar E, arranged to co-operate with the shoulders, as shown.

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Witnesses:

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