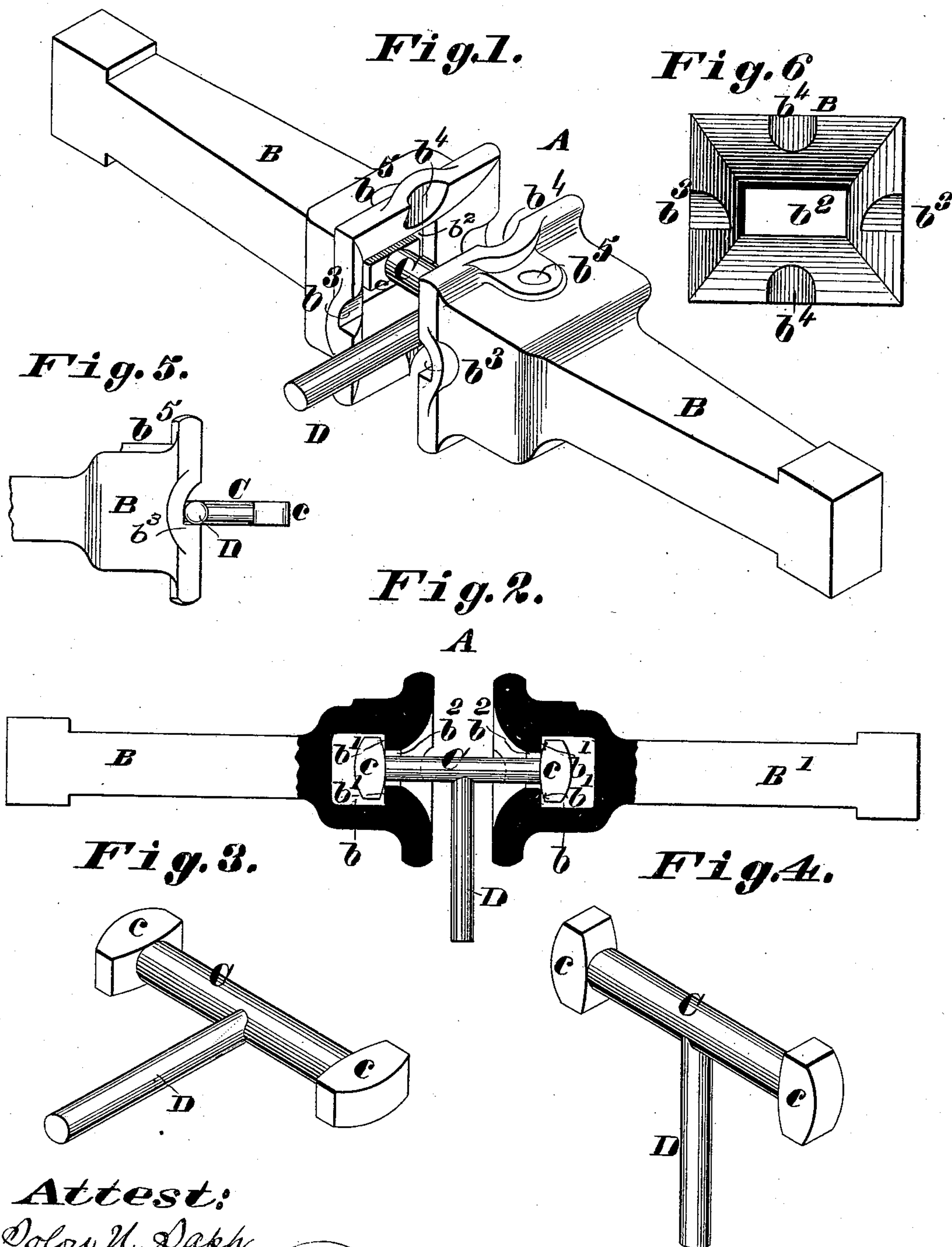


(No Model.)

J. A. PORTER.
CAR COUPLING.

No. 253,626.

Patented Feb. 14, 1882.



Attest:
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UNITED STATES PATENT OFFICE.

JOHN A. PORTER, OF ST. LOUIS, MISSOURI.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 253,626, dated February 14, 1882.

Application filed October 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. PORTER, of St. Louis, Missouri, have made a new and useful Improvement in Car-Couplings, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a view in perspective of a car-coupling having the improvement; Fig. 2, a sectional side elevation of the coupling; Figs. 3 and 4, views in perspective of the coupling-bolt; Fig. 5, a side elevation of the front end of one of the draw-heads, showing the bolt supported flatwise therein; and Fig. 6, a front view of a draw-head.

The same letters denote the same parts.

The coupling of the draw-heads of the present construction is effected by means of a double-headed bolt, the draw-heads being chambered out to receive the bolt-heads, and the bolt, after its insertion in the draw-heads, being held therein by turning it around, so as to bring the shoulders of the heads to bear against shoulders within the draw-head chambers. The bolt is provided with a handle, by means of which the bolt can be readily and safely manipulated. The handle can also be used, when desired, as an ordinary coupling-pin to couple an ordinary link, and in the present as well as other draw-heads, for the present improvement does not preclude the draw-heads with which it is used from being coupled in the customary manner.

Referring to the drawings, A represents a car-coupling of the usual description, saving as modified by the present improvement. The draw-heads B B' are chambered out at b b , forming shoulders b' therein. The mouths b^2 are elongated laterally.

C represents the coupling-bolt, having the heads c c , which are flattened to correspond to the shape of the mouths b^2 . The coupling is effected by turning the bolt C into the position shown in Figs. 1, 3, 5, (in which position the bolt can be inserted in and be withdrawn from the draw-heads,) and inserting the bolt-heads in the chambers b of the draw-heads, and then turning the bolt around into the position shown in Figs. 2, 4, and so that the bolt-heads c c come against the shoulders b' and

prevent the bolt for the time being from being withdrawn from the draw-heads.

D represents the handle of the bolt. By means of it the operator can turn and adjust the bolt without exposing his hands between the draw-heads. It also serves to weight the bolt, so as to keep the latter properly in position for coupling the draw-heads, the handle for this purpose being so arranged and extended upon the bolt that its weight operates to turn the bolt in its bearings in the draw-heads and cause the bolt-heads to come opposite the shoulders b' , and to prevent the bolt from being jostled sufficiently to uncouple. The handle should be extended in the direction of the longitudinal axis of the heads c c . This is essential, for to use an ordinary coupling-link in connection with the present draw-head the mouth b^2 must be elongated laterally rather than vertically, and the heads c c , when the coupling-bolt is locked in the draw-head, should bear against shoulders at the top and bottom, respectively, of the chamber in the draw-head, as herein shown.

The draw-heads are preferably shaped out at b^4 to make room for the handle D when the draw-heads come together. The draw-heads may also be recessed at b^3 b^3 for a similar purpose, the recesses b^3 b^3 being shaped as shown to provide rests for the handle to enable the bolt to be set and held in one draw-head, so that the bolt shall be in the proper position for entering the opposing draw-head, as seen in Fig. 5. An ordinary coupling link and pins can be used with the present draw-heads B B' for the purpose of coupling them; and the present bolt C, its handle D being of proper and uniform diameter, without any cross-bar or enlargement at its lower end to prevent its insertion in the hole b^5 , can be used in connection with an ordinary link, in such case the handle D being inserted in the pin-hole b^5 , and the bolt proper, C, serving to prevent the handle from dropping through the draw-head.

I do not broadly claim a double-headed coupling-bolt having a handle; but

I claim—

1. The combination of the draw-heads B B', having the laterally-elongated mouths b^2 and the shoulders b' at the top and bottom, re-

spectively, of the chambers *b*, and the bolt *C*, having the flattened heads *cc*, substantially as described.

2. The combination of the draw-heads *B B'*,
5 having the laterally-elongated mouths *b²* and the shoulders *b'* at the top and bottom, respectively, of the chambers *b*, and the bolt *C*, having the flattened heads *cc* and the handle *D*, said handle being extended and shaped sub-
10 stantially as described.

3. The draw-head *B*, having the shoulder *b³*, shaped as shown, for the purpose of supporting the handle *D* of the bolt *C*, substantially as described.

JOHN A. PORTER.

Witnesses:

CHAS. D. MOODY,
CHARLES PICKLES.