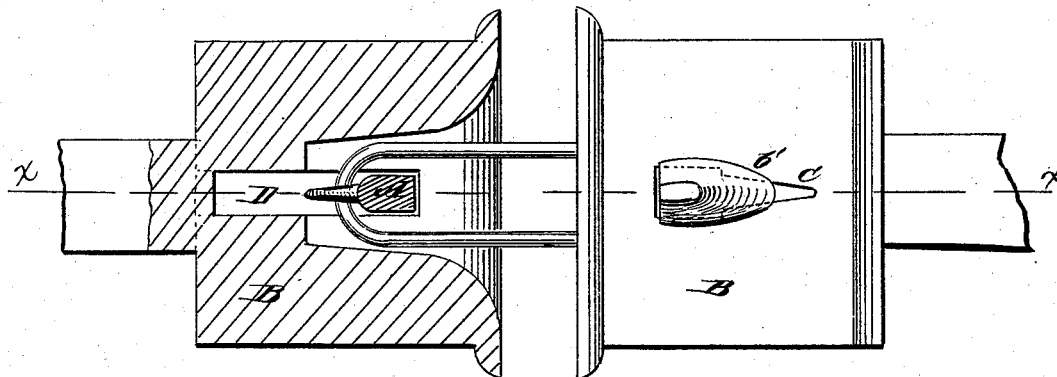
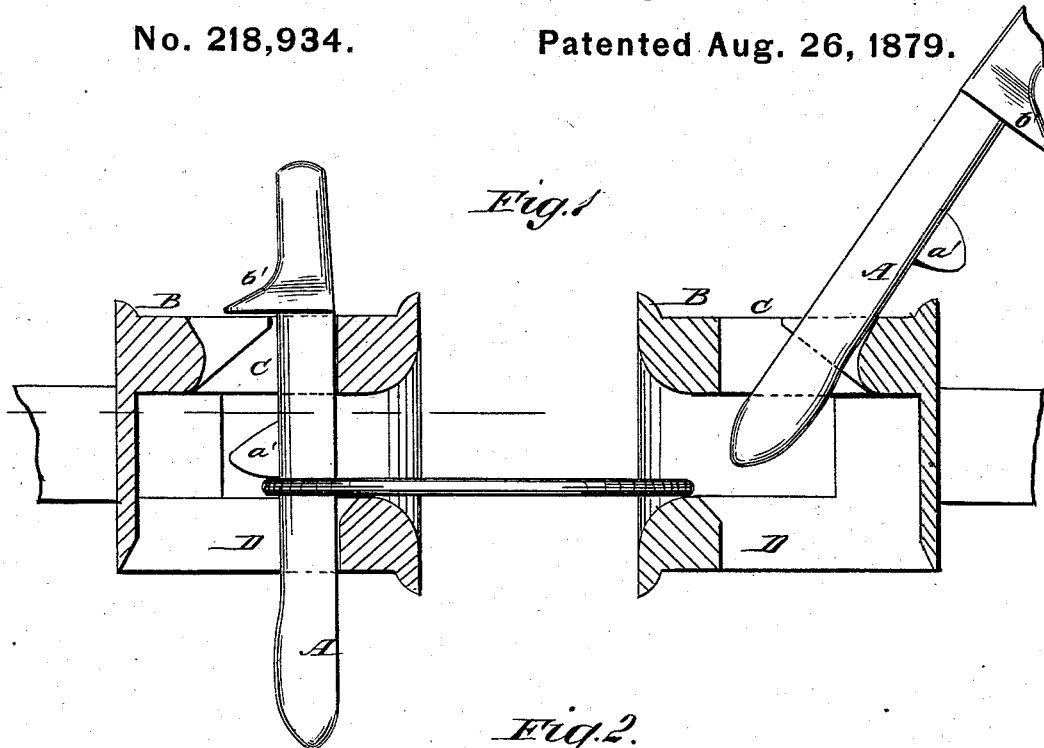


G. COOMBS & C. S. BLAKESLEE.
Car-Coupling.

No. 218,934.

Patented Aug. 26, 1879.



WITNESSES:

Francis McVick
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UNITED STATES PATENT OFFICE.

GEORGE COOMBS AND CHARLES S. BLAKESLEE, OF CHARITON, IOWA.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **218,934**, dated August 26, 1879; application filed June 2, 1879.

To all whom it may concern:

Be it known that we, GEORGE COOMBS and CHARLES S. BLAKESLEE, of Chariton, in the county of Lucas and State of Iowa, have invented a new and Improved Car-Coupling, of which the following is a specification.

Figure 1 is a sectional elevation on line *xx*, Fig. 2. Fig. 2 is a plan partly in section.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a simple and effective self-coupler for cars.

A represents a coupling-pin having the rear studs, *a' b'*, the former to hold the link in a horizontal plane, and the latter for the purpose of preventing the former from pressing the link out of a horizontal plane and the pin from falling through the top of draw-bar when the link is removed.

B is a draw-bar with the opening C in the top and the oblong opening D directly beneath it in the under side of the bar.

The method of operation is to place one end of the link E in the front opening of one draw-bar, and secure it there by passing a pin, A, down through the openings C and D, as shown, the stud *a'* on the center of the pin resting on the link and serving to hold it in a horizontal position. Then the other pin is set in the opening C in the other draw-bar, slanting

backward enough, as shown in Fig. 1, to keep it resting in the position shown. Then when the cars come together the free end of the link E enters the opposite draw-head under the slanting pin, which drops through it and into the opening D immediately that the draw-heads come in contact with each other, and thus couples the cars.

This device is cheap, simple, and effective, and can be applied to cars at a trifling cost.

The oblong openings D in the bottoms of the draw-bars permit the backward-and-forward movement at all times of the coupling-pins, so that the link shall not become wedged or bent or injured by them.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination, with a draw-bar having the described openings C D, of the coupling-pin A, having rear studs, *a' b'*, the upper to prevent the lower from pressing the link out of a horizontal plane, for the purpose set forth.

GEORGE COOMBS.
CHARLES S. BLAKESLEE.

Witnesses:

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