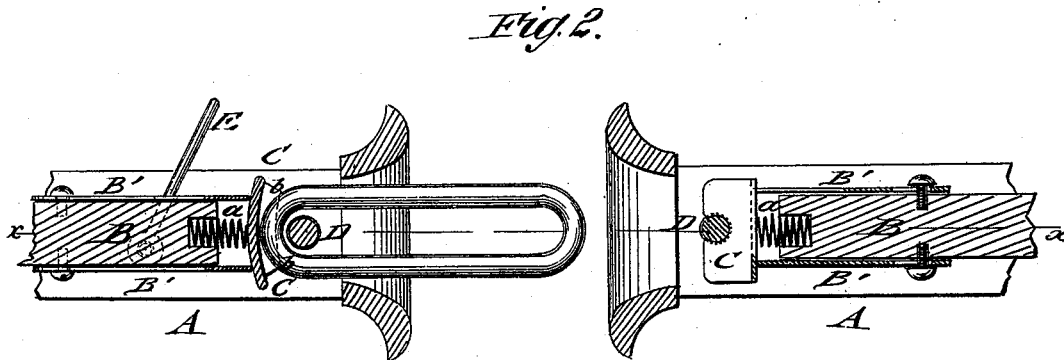
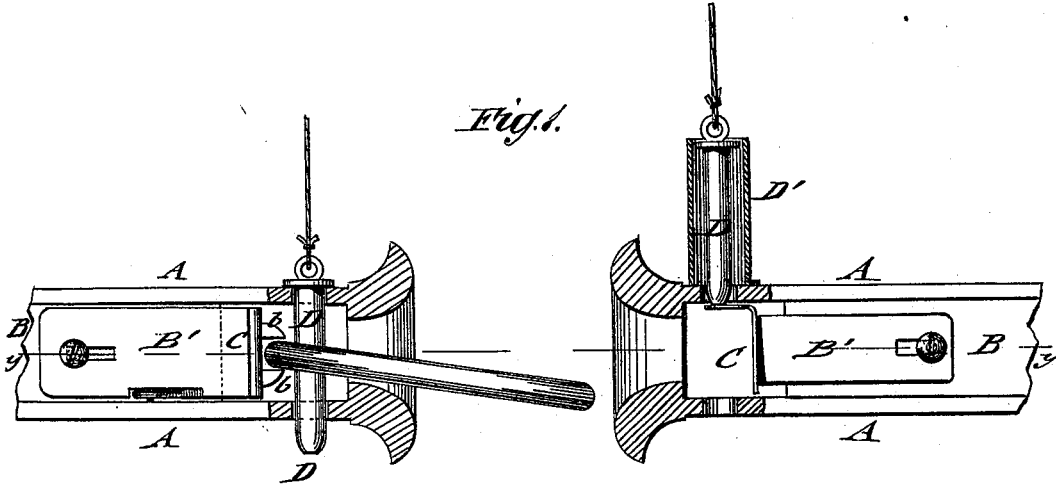


L. M. WEBB & E. TINKER.
Car-Coupling.

No. 207,921.

Patented Sept. 10, 1878.



WITNESSES:
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LOREN M. WEBB AND EDWIN TINKER, OF TUSCARORA, NEW YORK.

IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. 207,921, dated September 10, 1878; application filed July 6, 1878.

To all whom it may concern:

Be it known that we, LOREN M. WEBB and EDWIN TINKER, of Tuscarora, in the county of Steuben and State of New York, have invented a new and Improved Car-Coupling, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a vertical longitudinal section on line *x x*, Fig. 2, and Fig. 2 a horizontal section on line *y y* of Fig. 1, of our improved car-coupling.

Similar letters of reference indicate corresponding parts.

This invention has reference to that class of car-couplings that couple automatically on the approach of the cars by the entrance of the coupling-link into the connecting draw-head, so as to prevent the going in between the cars, and avoid the danger to life and limb connected with the common coupling in use; and the invention consists of a draw-head with open sides, and a central guide-block of less width and length, along which the slotted side plates of a spring-acted pin-supporting front plate are guided. The coupling-pin is guided in a cylindrical pin-guide or barrel at the top of the draw-head, and supported by an extension of the sliding front plate until the same is pushed back by the link. Transverse ribs at the face of the front slide-plate serve to hold the link in position for coupling, while a hand-lever that engages one of the side plates sets the ribbed front plate forward or backward on the center guide-block.

Referring to the drawings, A represents a draw-head of the usual size, made with curved or tapering mouth, but preferably with open sides. The draw-head is provided with a solid center guide-block, B, which is of less width than the draw-head and considerably shorter, so as to leave a sufficient space between the mouth and front end or face of the block for the coupling-link.

Along the guide-block B are guided, by headed pins or other devices, the slotted side plates B', which are connected in front of the guide-block by a front slide-plate, C, that is bent forward to form an angular extension, on

which the coupling-pin D rests before coupling. The front slide-plate, C, is cushioned by a spiral spring, *a*, that throws the slide-plate forward as soon as the pin is raised for uncoupling.

The pin D is guided in an upright cylindrical barrel or guide, D', secured to the top of the draw-head in line with the pin-holes, and uncoupled by any suitable mechanism from the top, side, or platform of the car. A collar-plate around the head of the pin prevents the dropping of the pin through the pin-holes.

The front slide-plate, C, may be slightly concaved for the coupling-link, which strikes against the same on entering and forces the plate back, so that the coupling-pin drops and couples the link. The front plate, C, is arranged with transverse ribs *b*, that form a groove between them for taking hold of the link, so as to sustain it in proper position for entering the opposite draw-head. A ribbed rubber front may be used, if desired.

The slide-plate C may be moved forward by a hand-lever, E, that is fulcrumed into a recess of the center block B, and extended sidewise through a recess of one of the side guide-plates. The lever admits the setting of the ribbed front plate so as to obtain the proper position of the link for entering the approaching draw-head. In coupling, the front plate and lever are moved back by the link. Thus a simple and automatically-working car-coupling is obtained that couples with the common pin and link, and which may be applied with great facility to the common draw-heads in use.

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

The draw-head of a car-coupling open at the sides, having guide-block B, and provided with slotted slide-plates B', the latter connected in front by a plate, H, as shown and described, for the purpose specified.

LOREN MONROE WEBB.
EDWIN TINKER.

Witnesses:

ELMER DUNN,
LEVI B. SWAN.