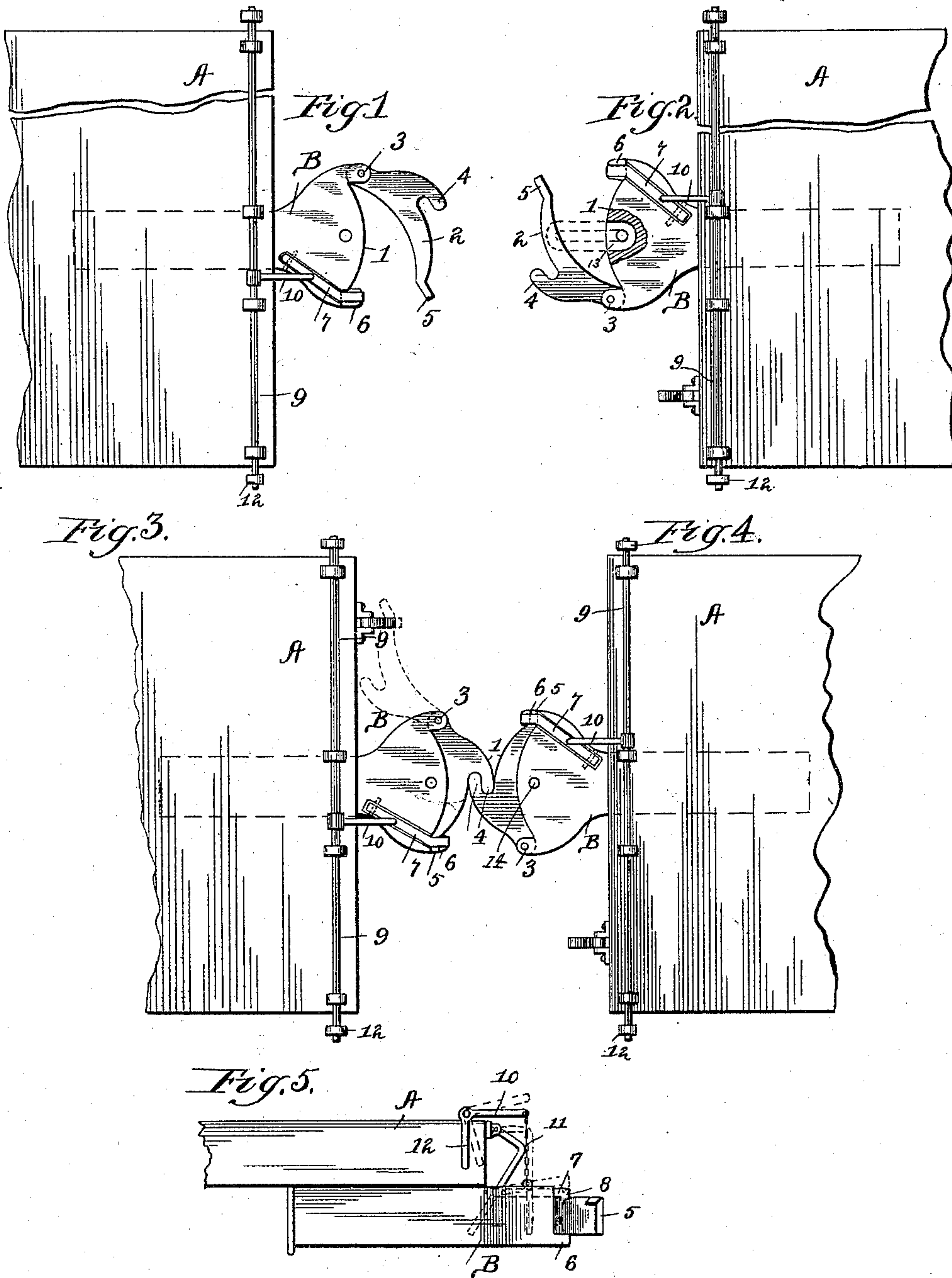


(No Model.)

L. PARMLEY.
CAR COUPLING.

No. 489,659.

Patented Jan. 10, 1893.



Witnesses:
Wm. M. Rheem.
Arthur C. Furman.

Inventor:
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attys.

UNITED STATES PATENT OFFICE.

LEMUEL PARMLEY, OF MOMENCE, ILLINOIS, ASSIGNOR OF ONE-THIRD TO
WILLIAM B. BROWN, OF CROWN POINT, INDIANA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 489,659, dated January 10, 1893.

Application filed February 1, 1892. Serial No. 419,915. (No model.)

To all whom it may concern:

Be it known that I, LEMUEL PARMLEY, a citizen of the United States, residing at Momence, in the county of Kankakee and State of Illinois, have invented certain new and useful Improvements in Car-Couplers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a novel construction in automatic car couplers, the object being to provide a device of this character combining simplicity and durability of construction with efficiency of operation.

The invention consists in the features of construction and combinations of parts herein-after fully described and specifically claimed.

In the accompanying drawings illustrating my invention, Figures 1 and 2 are plan views of two companion couplers in position to be automatically locked together. Figs. 3 and 4 are similar views showing the couplers in their mutually grasping position. Fig. 5 is a side elevation of a coupler.

Referring to said drawings, A A indicate the platforms on the meeting ends of two cars and B, B, are the drawheads thereon. The construction of said draw-heads being similar, a detailed description of one will suffice. The forward end of said draw-head is provided with a curved or convex face 1 that corresponds to the curved or concave rear face of a horizontally swinging lock-arm 2 pivoted between ears 3 at one side of said draw-head. The front face of said locking-arm is provided with a coupling hook 4 located to engage the coupling hook of a companion car coupler when the two come together. The free or swinging end 5 of said locking arm is beveled on its upper edge and is adapted to swing in between a projection 6 at the opposite side of the draw-head to which said locking-arm is pivoted, and a latch bar 7 pivoted to the upper face of said draw-head. The said

latch bar 7 is provided with a downwardly projecting beveled end 8 that engages the end 5 of the locking arm.

In Figs. 1 and 2 the locking arms are shown in position for coupling. When the cars come together the locking arms will strike each other and be turned upon their pivots until the ends thereof pass by the end of the latch bar 7 and is held thereby, while at the same time the broad curved faces of said draw-head and locking arm meet each other and provide a strong and durable abutting surface. As the said locking arms meet and turn upon their pivots the coupling hooks 4 thereon interlock and come to the mutually grasping position, shown in Figs. 3 and 4.

The devices for uncoupling consist essentially of a rock-shaft 9 mounted upon the platform and connected by an arm 10 and chain 11 with said latch bar 7. Crank arms or handles 12 are arranged at the ends of said rock shaft 9 whereby the latch bar can be lifted from either side of the car.

As shown in Fig. 2 the draw-head is provided with a recess 13 in the end thereof and an opening 14 passing therethrough. Such recess 13 and opening 14 is intended for use with the ordinary link and pin-coupling in case the next car is not provided with a car-coupler capable of automatic action with a coupler of the kind, or in case the locking-arm of this device is broken or disabled.

I claim as my invention:

A car coupler comprising a draw-head and a horizontally swinging locking arm having corresponding flat meeting faces, a coupling hook located upon the outer face of said locking arm, and a latch for engagement with said locking arm.

In testimony whereof I affix my signature in presence of two witnesses.

LEMUEL PARMLEY.

Witnesses:

FRANK M. SHADBY,

HANNIBAL WORCESTER.