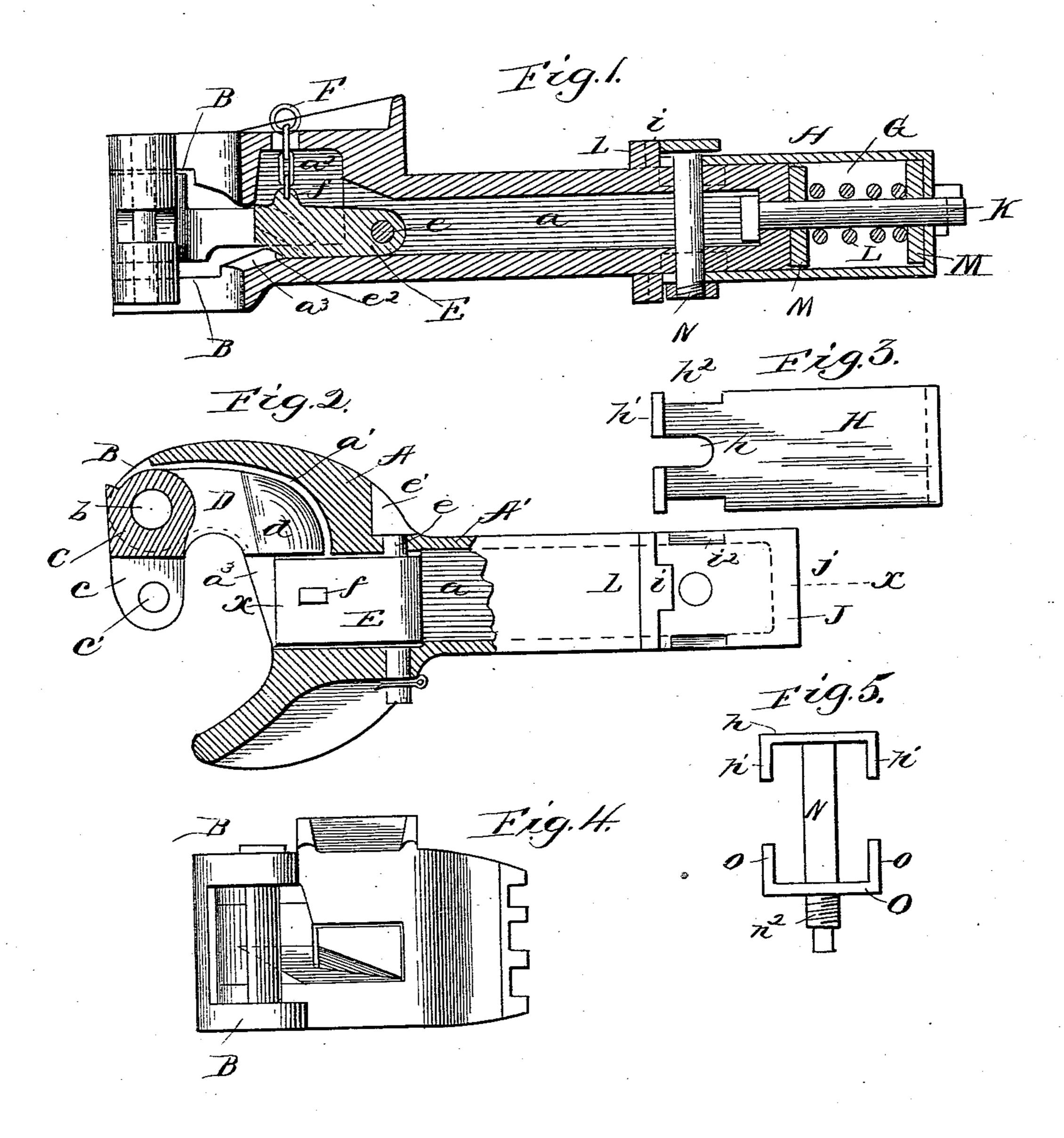
No Model.)

S. KELLER. CAR COUPLING MECHANISM.

No. 557,826.

Patented Apr. 7, 1896.



Witnesses:

dans Levan

Solman Keller

Inventor.

United States Patent Office.

SOLOMON KELLER, OF READING, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WILLIAM R. EYRICH AND WILLIAM EHRING, OF SAME PLACE.

CAR-COUPLING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 557,826, dated April 7, 1896.

Application filed December 19, 1895. Serial No. 572,668. (No model.)

To all whom it may concern:

Be it known that I, Solomon Keller, a citizen of the United States, residing at Reading, county of Berks, State of Pennsylvania, 5 have invented certain Improvements in Car-Coupling Mechanism, of which the following is a specification.

My invention relates to certain improvements in car-coupling mechanism, which are 10 fully described in connection with the accompanying drawings, and the novel features of which are specifically pointed out in the claim.

Figure 1 is a sectional elevation of the complete mechanism, taken on the line x x of Fig. 15 2. Fig. 2 is a plan view showing the drawhead in section and the buffer-spring strap removed. Fig. 3 is a separate view of the buffer-spring strap. Fig. 4 is a front view of the draw-head with the coupling-jaw re-20 moved. Fig. 5 shows the T-bolt and washer

separately.

The coupling-jaw or knuckle C is pivoted between the jaws B B of the draw-head A on a knuckle-pin at b in the usual manner for 25 this class of couplings, except that considerably more space is allowed between the jaws B B for vertical movement of the couplingjaw on the knuckle-pin for a purpose hereinafter described. The coupling-jaw is pro-30 vided with a locking-arm D, the outer end of which is tapered off on top, as indicated at d, Fig. 2. This arm swings back into the sidewise extension a' of the central cavity a, extending through the body of the bar, and in 35 so doing its lower face rides upon an inclined surface a^3 in the interior of the draw-head. This compels the whole coupling-jaw to rise on the knuckle-pin a considerable distance above its normal uncoupled position, as indicated in 40 Fig. 1, the purpose of this construction being to cause the coupling-jaw to automatically open outward when it is not locked in coupled position. This is effected by the weight of the coupling-jaw, which causes it to fall to its 45 natural resting-place upon the lower jaw B of the draw-head, which movement causes the locking-arm D to ride outward upon the inclined surface a^3 , thus swinging the couplingjaw automatically into proper position for 50 coupling with another car.

The locking device which I employ consists of a catch or latch E, which is pivoted at its rear or inner end on a transverse bolt or pin

and is free to be swung upward into an extension a² of the central draw-head cavity. This 55 I arrange to be effected in either of two ways first, by means of a chain F, attached to its forward end and extended through a top opening in the draw-head to a convenient lever mechanism, such as is commonly used, and, 60 second, automatically by the inward movement of the locking-arm D, the tapering surface d of which is adapted to wedge in under the correspondingly-tapered front e^2 of the catch, so as to raise the latter out of its path 65 until it has passed fully into the cavity extension a', when the catch automatically drops and locks it there, only to be released by the operation of the lever mechanism referred to.

At the other end of the draw-bar A', I provide a buffer-spring pocket G by means of a separately-formed strap H, which spans the end of the bar and is clamped thereto in the following manner: The ends of the strap are 75 formed with heel-pieces h' h', separated by a slotted opening h for the passage of a clamping-bolt N. These heels engage offsets formed on the top and bottom of the draw-bar. Recesses $h^2 h^2$ in the edges of the strap and 80 $i^2 i^2$ in the draw-bar are engaged at the top by the depending portions n' n' of the **T**-bolt N and at the bottom by the portions o o of a washer O, which is clamped in place by a nut on the threaded end n^2 of the bolt. The buf- 85 fer-spring L is strung upon the longitudinal bolt K between follower-plates M M, the ends of which are guided, as usual, in suitable pockets fixed to the sills of the car. The bolt K is introduced from the coupling end of the 90 bar through the central cavity a.

What I claim is—

The combination with the rear end of a draw-bar such as described, of a strap H spanning the bar and provided with heels h' h', 95 side recesses $h^2 h^2$ and bolt-openings h, corresponding offsets and recesses on the draw-bar end, and a T-bolt N and washer O engaging the strap and bar substantially as set forth.

In testimony whereof I affix my signature 100 in presence of two witnesses.

SOLOMON KELLER.

Witnesses:

CHAS. A. CORNETT, CAMERON E. STRAUSS.