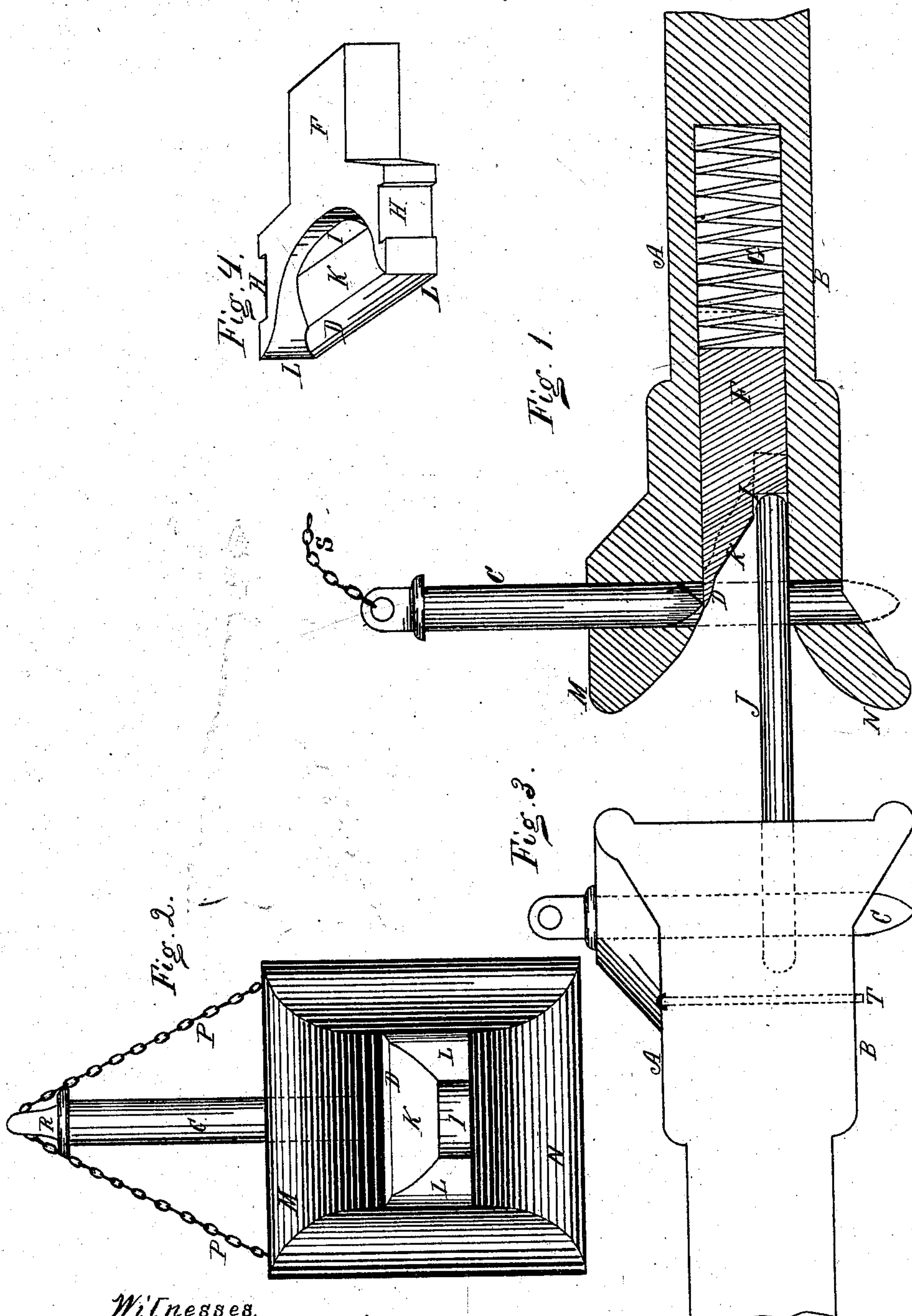


J. ENOS.
Car-Couplings.

No. 143,894.

Patented Oct. 21, 1873.



Witnesses.
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UNITED STATES PATENT OFFICE

JOAB ENOS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **143,894**, dated October 21, 1873; application filed August 7, 1872.

To all whom it may concern:

Be it known that I, JOAB ENOS, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Car-Couplings; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a longitudinal vertical section; Fig. 2, a front view; Fig. 3, a side elevation, and Fig. 4 a perspective view.

Similar letters of reference in the accompanying drawings denote the same parts.

Letters Patent of the United States were granted to W. D. Hatch October 2, 1849, for a car-coupling provided with a beveled sliding block to hold up the pin while the link was entering, the link itself operating to push back the blocks, drop the pin, and thus couple the cars together automatically. In this coupling a stem projected back from the block and was provided with a pin to stop or limit the forward movement of the sliding block, the spring itself operating as a stop to the back movement.

The invention of Hatch was subsequently improved by E. S. Cram, as shown in his patent dated April 20, 1869, by a change in the arrangement of the stop-pin to enable it to stop the movement of the sliding block in both directions. To this end the stop-pin was arranged in a vertical position, so as to project from the top of the draw-head down into a depression formed in the top of the block.

The object of my invention is to still further improve the coupling referred to, by constructing and arranging the stop-pins in such manner that they will be less liable to break or bend than heretofore, and so that, at the same time, they can, when necessary, be secured in position by nuts, and can be easily removed whenever it is desirable to take out the sliding block for any purpose. To this end the invention consists in the construction of the sliding block with a slot or slots extending entirely through it, and the employment in connection therewith of a pin, extending not only through the slot, but entirely through the draw-head, so as to admit of a head on one side and a nut on the other, substantially as herein set forth.

In the drawings, A B represent the draw-head, provided with the enlarged flanges or lips M N. C is the coupling-pin; F, the sliding block, having a recessed and beveled front end, as shown at D K I L, and being provided with one or more slots or gains, H, extending entirely through it. G is the spring, which thrusts the block forward under the coupling-pin when the latter is drawn up, as shown in Fig. 1, and J is the link, which, striking against the block F, forces it back, and allows the pin to drop and couple the cars, as will be readily understood from the drawings. In connection with the parts thus constructed and operating, I employ one stop-pin, T, for each of the slots or gains H, constructing such pin so that its head will project from one side and its point from the other side of the draw-head. The head will thus secure it from working out in one direction, and a screw-nut, key, or other device may be employed at the point to hold it securely from working in the other direction.

The rods or pins T can be easily removed whenever necessary to take out the block; and if they fit too tightly a blow upon their projecting point will at once start them.

The rods or couplings, being held at both ends, cannot easily bend or break and thus render the coupling inoperative by the loss of the block.

I am aware that a stop bolt or pin passing through the draw-head and a slot in or near the central line of the sliding block has heretofore been employed to limit the play of the latter, and I therefore lay no claim to such invention; but

What I do claim as new, and desire to secure by Letters Patent, is—

The sliding block F, having the open recess D L K I and slots H H at the sides of said sliding block, in combination with the bolts T, extending through the draw-head and said slots, the whole being constructed, arranged, and operated in the manner and for the purpose set forth.

JOAB ENOS.

Witnesses:

G. L. CHAPIN,
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