W. N. HUTCHINSON.

CAR-COUPLING.

No. 179,116. Patented June 27, 1876.

Fig. 1.

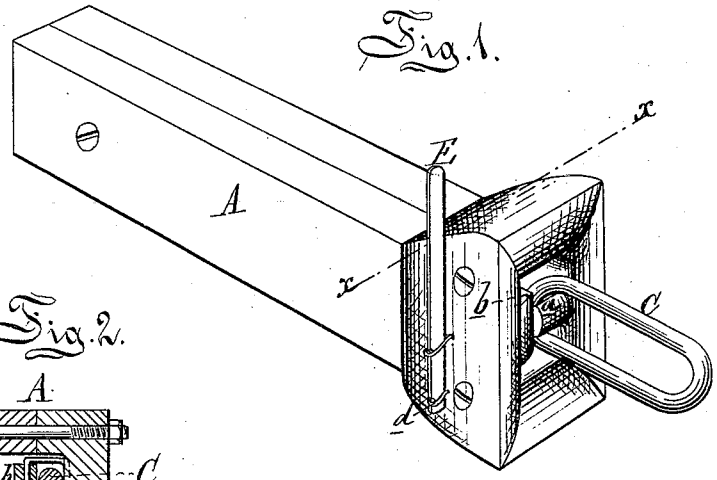


Fig. 2.

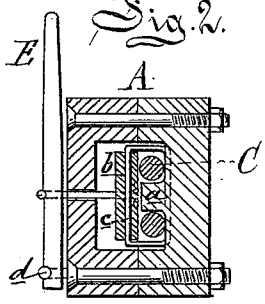


Fig. 3.

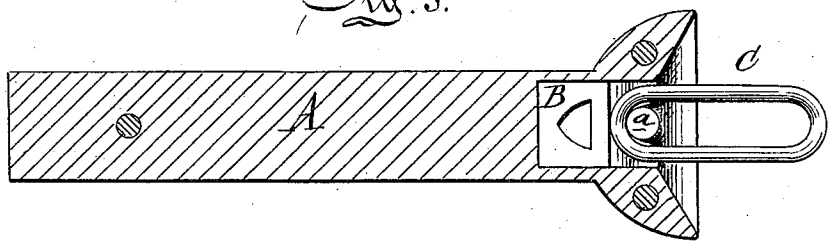
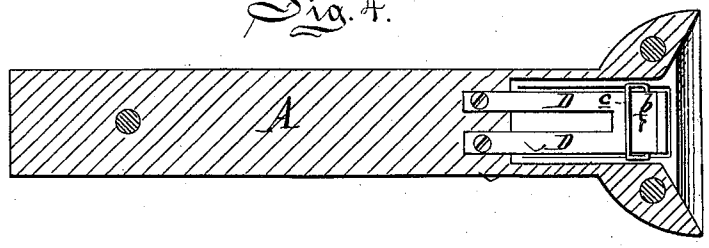


Fig. 4.



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UNITED STATES PATENT OFFICE.

WARREN N. HUTCHINSON, OF SOUTH BAY CITY, MICHIGAN, ASSIGNOR TO HIMSELF AND WILLIAM P. LAPHAM, OF SAME PLACE.

IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. **179,116**, dated June 27, 1876; application filed November 23, 1875.

To all whom it may concern:

Be it known that I, WARREN N. HUTCHINSON, of South Bay City, in the county of Bay and State of Michigan, have invented an Improvement in Car-Couplings, of which the following is a specification:

The nature of my invention relates to an improvement in car-couplings, having for its object to so construct the draw-head as to automatically engage an entering link when presented edgewise to the jaw—that is to say, turned axially a quarter-turn—and to hold the link in position for coupling with another draw-head.

The invention consists in the peculiar construction of the draw-head and the combination therewith of an internal buffer-spring, a leaf-spring for keeping the link behind a hook in the jaw, and an uncoupling device, as more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a cross-section at *x x*. Fig. 3 is a sectional elevation of the draw-head, showing the link-hook and its buffer-spring. Fig. 4 is a similar view of the other half of the draw-head, showing the link-spring and its yoke.

In the drawing, A represents a draw-head, having a longitudinal vertical division through the center. One half has a cavity formed behind the bell-mouth to receive a rubber buffer-spring, B, having its central portion cored out to increase the elasticity. In front of this buffer there is a lateral hook, *a*, cast on the side of the jaw, with which hook the link C engages. D is a leaf-spring, secured at its rear end to a recess in the other half of the draw-head. Its head *b* or outer end is beveled to deflect the end of the link inward. The link pushes it aside until past the hook *a*, when the spring will throw it behind said hook. The buffer-spring yields to the entering link, and then, pressing it against the hook, keeps it in any position in which it may be adjusted.

To uncouple, the spring D is provided with a yoke, *c*, through which the link passes. A short lever, E, is pivoted to the outside of the draw-head, and is connected, by a staple, *d*, with the spring D, the said staple passing through a slot in the draw-head. By pulling on the lever the spring D will be retracted, and by the yoke *c* the link will be drawn from behind the lever, and then be pushed out by the buffer-spring. The shank of the draw-bar may be solid, and only the outer part be divided, if preferred.

What I claim as my invention is—

The draw-bar A *a*, constructed as described, the combination therewith of the buffer-spring B, leaf-spring C, yoke *c*, lever D, and staple *d*, in the manner and for the purpose set forth.

WARREN N. HUTCHINSON.

Witnesses:

H. F. EBERTS,

H. S. SPRAGUE.