

(No Model.)

H. C. TRASK.

CAR COUPLING.

No. 321,773.

Patented July 7, 1885.

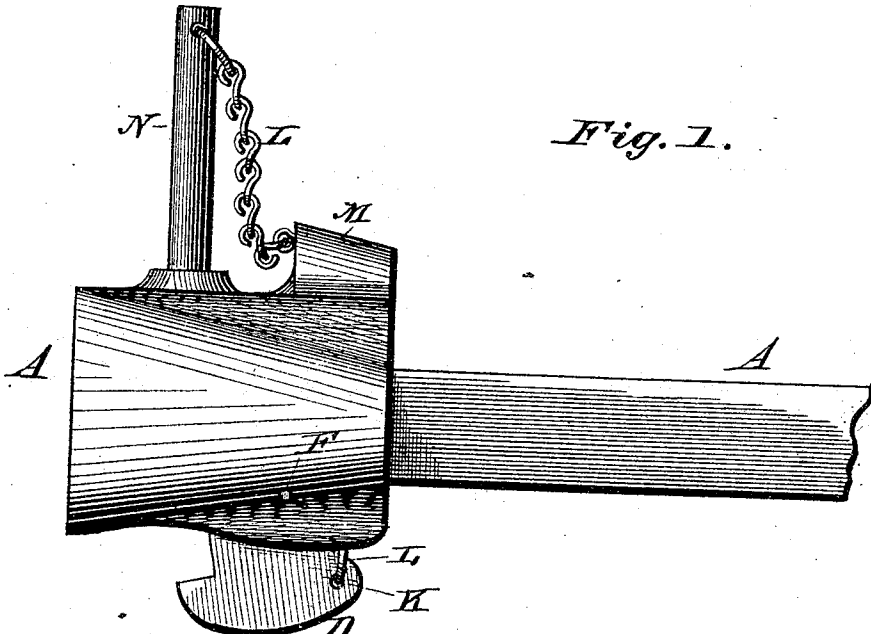


Fig. 1.

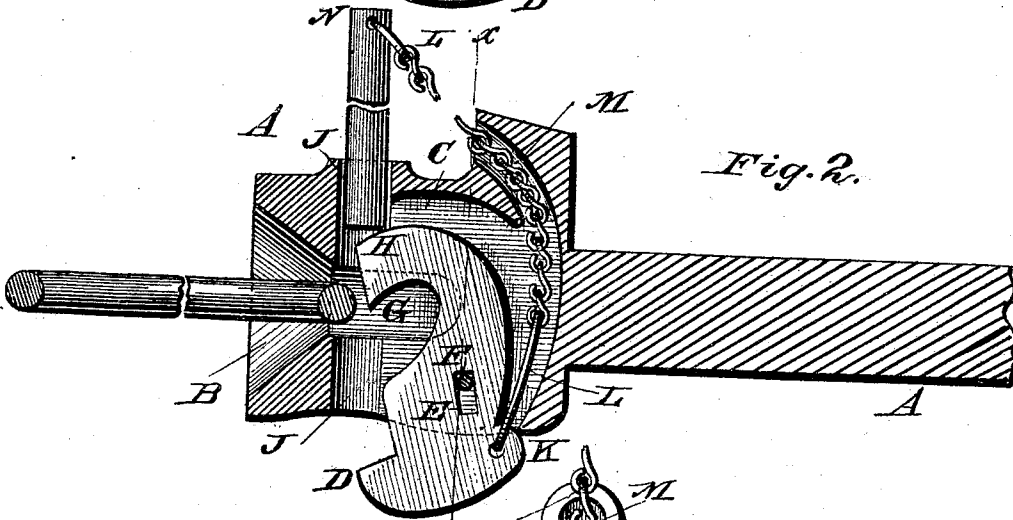


Fig. 2.

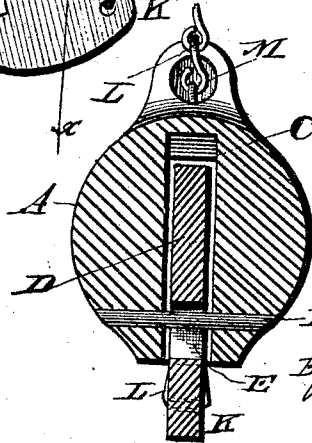


Fig. 3.

WITNESSES

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HENRY C. TRASK, OF VIENNA, MAINE.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 321,773, dated July 7, 1885.

Application filed May 9, 1885. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. TRASK, a citizen of the United States, and a resident of Vienna, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Car-Couplings; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved car-coupling, showing the same in position for operation. Fig. 2 is a vertical longitudinal sectional view of the same, and Fig. 3 is a vertical transverse sectional view taken on the line *x x* in Fig. 2.

The same letters refer to the same parts in all the figures.

This invention relates to that class of car-couplings which are known as "automatic" or "self-acting," and which operate to couple the cars automatically when they come in contact with each other; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the draw-head, which is provided with the usual mouth or opening, B, and with a vertical longitudinal slot, C, for the reception of the coupling-tongue D, which is provided with a vertical slot, E, for the reception of the transverse fastening-pin F, which admits of a vertically-sliding as well as of a vibrating movement of the said tongue. The latter is provided with a recess, G, in its front side for the reception of the coupling-link, and a shoulder or rest, H, is formed upon the front side of the said tongue for the purpose of support-

ing the coupling-pin I, for the reception of which a vertical recess or opening, J, is formed in the draw-head. The rear side of the tongue is provided near its lower end with a perforated lug, K, to which is connected the lowermost link of a chain, L, the upper end of which passes through a guide or channel, M, formed upon the upper side of the draw-head, and is connected with the upper end of the coupling-pin N, as shown.

When the coupling-pin is inserted into the socket or opening provided for its reception, it rests upon the upper side of the tongue. When the cars come together, and the link enters the draw-head, it pushes the tongue back, thus permitting the pin to drop through the link, thus perfecting the coupling. While the cars are coupled the pin rests upon the shoulder at the lower end of the tongue, which latter in the act of uncoupling is tilted so as to shove or push the pin in an upward direction, thereby assisting in the act of uncoupling the cars.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a car-coupling, the combination of the draw-head having a vertical slot or opening, the pivoted and vertically-sliding tongue having a shoulder or rest for the coupling-pin, and a chain connecting the said tongue with the said coupling-pin, substantially as herein described, for the purpose set forth.

2. In a car-coupling, the combination of the draw-head, a vertically-sliding pivoted tongue, a vertically-sliding coupling-pin, a chain connecting the latter with the tongue, and the tubular guideway for the said chain, formed on top of the draw-head, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

HENRY C. TRASK.

Witnesses:

N. COREY LEIGHTON,
JAMES H. ALLEN.