

S. K. PADEN.

Improvement in Car-Couplings.

No. 129,163.

Patented July 16, 1872.

Fig. 1.

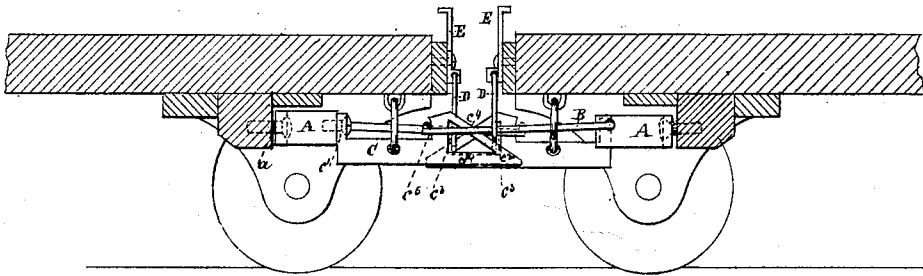
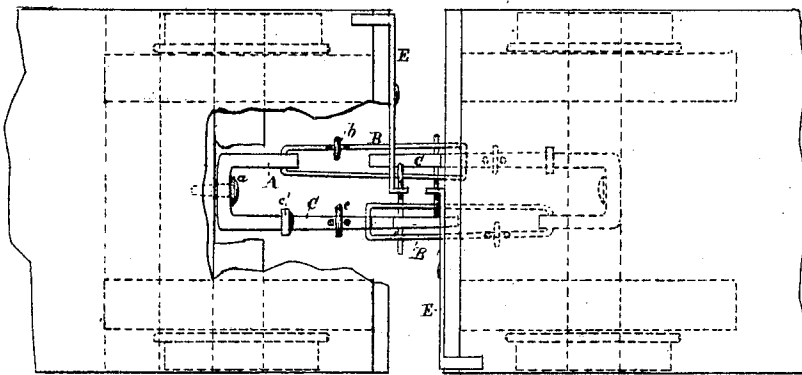


Fig. 2.



Witnesses:

G. H. Hays.

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UNITED STATES PATENT OFFICE.

SAMUEL K. PADEN, OF PULASKI, PENNSYLVANIA.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. 129,163, dated July 16, 1872.

Specification describing a Car-Coupling invented by SAMUEL K. PADEN, of Pulaski, in the county of Lawrence and State of Pennsylvania.

The invention will first be described, in connection with all that is necessary to a full understanding thereof, and then clearly pointed out in the claim.

Figure 1 is a vertical longitudinal section, and Fig. 2 is a top view.

A represents a clevis, which is open in front and has some play upon pin *a*. B is a coupling-link pivoted to one, and C a catch pivoted to the other, free end of said clevis. *b c* are respectively supports for the link and catch. A vertical vibratory arm, *c'*, allows lateral play to the catch C. This catch has a head, *c''*, apertured or vertically slotted at *c'''*, and provided with incline *c''''*, and holding-recess *c'''''*. D is the lifter, attached to link B at *b*, and having an arm, *d*, which passes through aperture *c'''* of catch. E is a hand-lever, that passes above and in front of platform of car or truck, and within easy reach of one standing thereon.

The mode of operation is as follows: When two cars come together, the catch C of the one

and the link B of the other reciprocally fasten and form a double grapple. If one breaks the other holds. If the operator proposes to disconnect a car he depresses lever E upon that one which is next thereto, and upon which he is standing. This operates the lifter D, and causes both links to rise up to the inclines *c''''* of their respective catches, over which they slide as the cars are separated.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A car-coupling, composed of clevis A having a slight play on pin *a*, the pivoted and slotted catch C having laterally-pivoted arm *c'*, the pivoted link B, and the lifter D, attached at *b* to link, and having its arms *d* passing through catch, all as described.

To the above specification of my invention I have signed my hand this 18th day of March, A. D. 1872.

S. K. PADEN.

Witnesses:

SOLON C. KEMON,
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