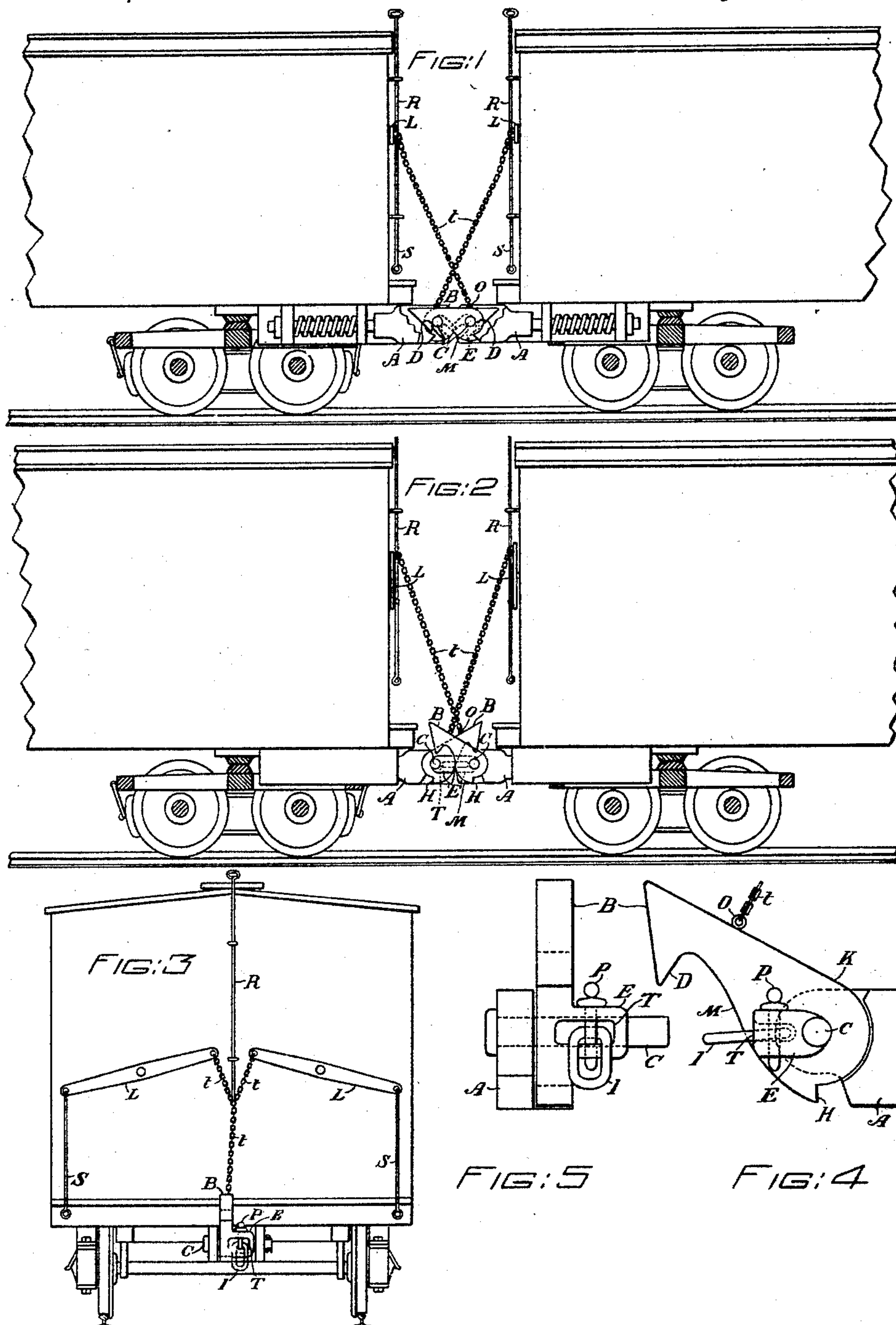


(No Model.)

E. T. PEIRCE.  
CAR COUPLING.

No. 497,684.

Patented May 16, 1893.



WITNESSES:

W. A. Schaefer  
W. Jackson

INVENTOR:

Edgar T. Peirce  
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ATT'Y.



# UNITED STATES PATENT OFFICE.

EDGAR T. PEIRCE, OF KANSAS CITY, MISSOURI.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 497,684, dated May 16, 1893.

Application filed March 2, 1893. Serial No. 464,471. (No model.)

*To all whom it may concern:*

Be it known that I, EDGAR T. PEIRCE, of Kansas City, in the county of Jackson and State of Missouri, have invented a new and Improved Car-Coupling, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved car-coupling, which is simple and durable in construction, very effective in operation and arranged for automatic coupling and easy and convenient uncoupling from either side or the top of the car.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1, is a sectional side elevation of the improvement showing two cars coupled. Fig. 2, is a like view of the same, showing the cars uncoupled. Fig. 3, is a front view, with the improved automatic coupling hook raised, exposing to view the enlarged part or box of the coupling hook with its throat or opening. Fig. 4, is a side view of the plan of the improved coupling hook, with a part of the drawhead. Fig. 5, is a front view of the improved coupling hook with a common link inserted in the throat.

In Fig. 1 the automatic coupling hooks B. B. are engaged to the drawheads A. A. by the pivot pins C. C. and the cars are coupled together by the coupling hooks D. D. dropping over the pivot pins C. C.

In Fig. 2. by means of the chain *t*, the automatic coupling hooks B. B. have been raised toward a perpendicular position and the two cars have been uncoupled. Part of the coupling hook B being enlarged on one side and in front of the pivot C, forms a box E, in which is an opening or throat T large enough to receive readily a common coupling link to be fastened by the ordinary coupling pin, as shown in Fig. 3, and Fig. 5, where the auto-

matic coupling hook B. is thrown up to almost a perpendicular position by means of the upright rod R, or the levers L, L, which are connected to the automatic coupling hook B by the chains *t. t. t.* attached to the loop or ring O at or near the middle of the coupling hook B.

In Fig. 4, is shown a lateral section of the automatic hook giving a side view and its engagement to the drawhead A and showing the box enlargement E, with its throat T, and pin hole P.; and lug H which rests against the lower front end of the drawhead A, to hold the coupling hook in a horizontal position when desired to couple automatically. The front end of the box E is so arranged as to strike against the beveled or curved edge M of the lower side of a similar coupling hook of another car, that may be coupled to it and thus raise it simultaneously with itself whenever raised.

In Fig. 5 is shown the engagement of a common coupling link *l* by the pin P in the throat T, when connecting a common car not having this improved automatic coupling hook.

I claim as my invention and as new and desire to secure by Letters Patent—

1. In a car coupling, the combination of a drawhead with an automatic coupling hook having an enlargement or box on one side, and in front of its pivot pin, sufficiently large to contain an opening or throat for the use of ordinary coupling links to be secured by their ordinary coupling pins, when desired, substantially as described and set forth.

2. A car coupling consisting of a coupling-hook having a curved or beveled edge, and provided on its side with the box or coupling throat E, so arranged that it may strike against the curved or beveled edge of the opposite coupling, and raise it automatically, and on which it may afterward engage, substantially as described and set forth.

EDGAR T. PEIRCE.

Witnesses:

JAMES RATCLIFFE,  
WM. M. BUFFINGTON.