

(No Model.)

T. McK. STUART.
CAR COUPLING.

No. 505,930.

Patented Oct. 3, 1893.

Fig. 1.

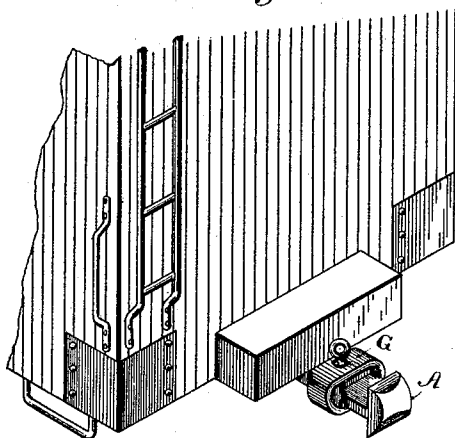


Fig. 2.

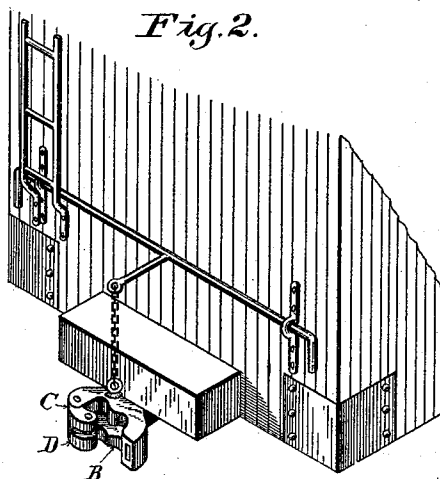


Fig. 4.

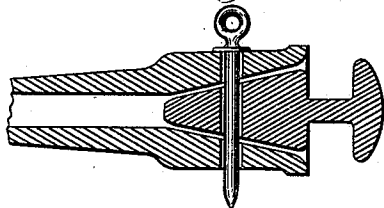
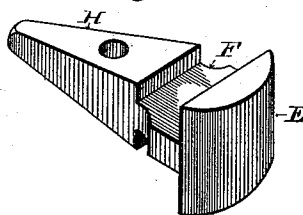


Fig. 3.



Witnesses:
C. W. Stuart
T. E. Stuart

Inventor:
Thomas, McK. Stuart

UNITED STATES PATENT OFFICE.

THOMAS MCK. STUART, OF COUNCIL BLUFFS, IOWA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 505,930, dated October 3, 1893.

Application filed September 6, 1892. Serial No. 445,210. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MCK. STUART, a citizen of the United States, residing in the county of Pottawattamie, State of Iowa, have
5 invented a new and useful Car-Coupler, of which the following is a specification.

My improvement has for its purpose the adaptation of link and pin couplers to automatic coupling with couplers of the vertical
10 plane or twin jaws type. This is accomplished by means of a supplemental or movable T-shaped head, conformed at one end to the shape and dimensions of the link cavity in the link and pin coupler, and at the other end
15 to the swinging jaw and recess in the head of vertical plane couplers in ordinary use; said supplemental head to be carried by cars having link and pin couplers, for use when occasion requires.

20 Figure 1. represents the supplemental head in adjustment upon a car provided with link and pin coupler. Fig. 2. represents a car provided with a coupler of the vertical plane type. Fig. 3. represents supplemental head
25 detached. Fig. 4. is a sectional view of the supplemental head inserted within a link and pin coupling.

In Fig. 1. A is the supplemental head in position, held securely by being at the rear end
30 conformed to the shape and size of the link cavity of the link and pin coupler with which it is to be used. G is the pin which passes vertically down through the coupler and supplemental head and secures it in position.

35 Fig. 2. represents a car provided with a vertical plane coupler of the master car builders' type. B is the recess in the forward end of the same. C is the swinging jaw of the same, and D is the link holding slot or bifurcation, ordinarily provided for coupling with
40 link and pin couplers.

Fig. 3. represents supplemental T-shaped head detached, being but a general outline of its form, the form being necessarily divergent, as it is made in each case to conform to
45 the diverse forms and shapes of link cavities

in ordinary link and pin couplers. E is the vertical head conformed somewhat in form and dimensions to the recess and jaw in the forward end of vertical plane couplers. F is
50 the horizontal transverse arm made to pass into, or be embraced by the bifurcated jaw or linkholding slot of vertical plane couplers. H is the pinhole passing vertically through the rear end of the supplemental head, by
55 which it is securely held by the pin of the link and pin coupler.

My device is designed to operate in the following manner, to wit: Each car provided with a link and pin coupler shall also be provided
60 with two supplemental heads conformed in shape and dimensions to the link cavity of its drawbars. When the occasion requires a coupling with a vertical plane coupler, the supplemental head shall be inserted into its
65 place in the link cavity and secured by the pin, the jaw of the opposing drawbar then thrown open when the ordinary impact of the cars will close the jaw upon the vertical flanges of the supplemental head, the bifurcated
70 opening or linkslot in the jaw at the same time embracing the transverse horizontal arm of the same, thereby effecting a coupling without exposure to the operator.

What I claim as my invention, and desire
75 to secure by Letters Patent, is—

1. A detachable, supplemental head, constructed with a vertical, T-shaped flange or inflexible head, which is conformed in form and dimensions to the recess in the head of
80 vertical plane couplers of the Janney type.

2. A detachable, supplemental head, having a transverse horizontal arm, made of such shape and dimensions as to readily pass between and be embraced by the bifurcated
85 jaws of vertical plane couplers of the Janney type.

T. MCK. STUART.

Witnesses:

W. WOODWARD,
J. C. WOODWARD.