

R. E. L. JANNEY.
CAR COUPLING.
APPLICATION FILED JULY 21, 1908.

1,010,055.

Patented Nov. 28, 1911.

Fig. 1.

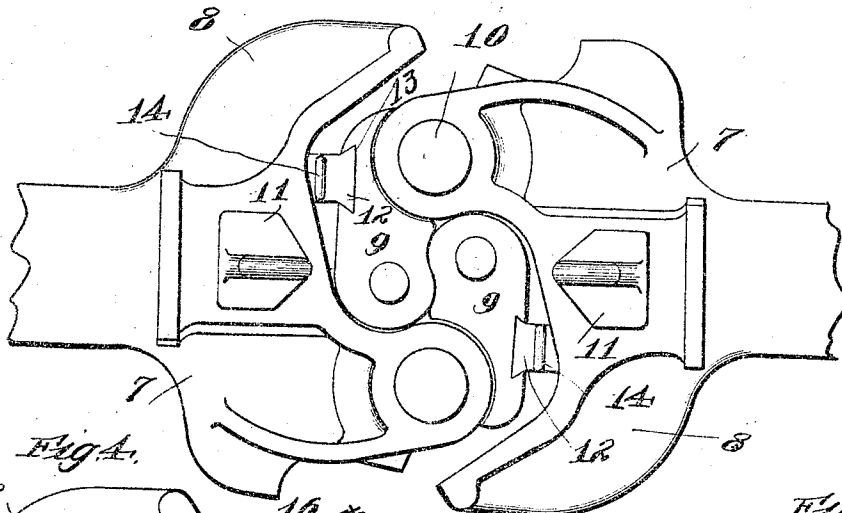


Fig. 4.

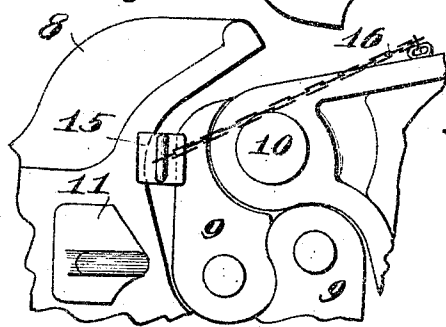


Fig. 2.

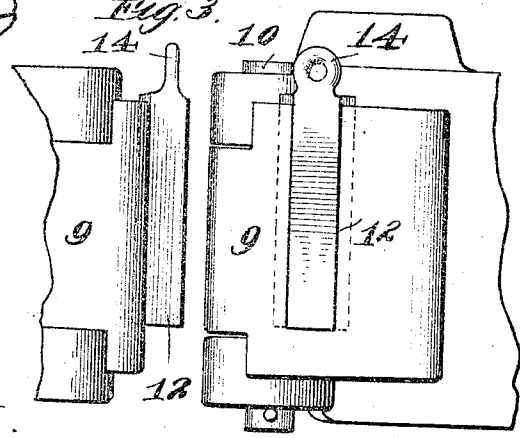


Fig. 3.

Fig. 5.

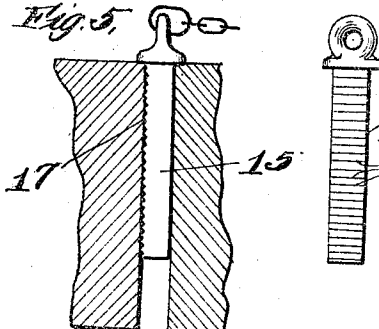
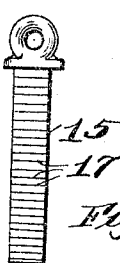


Fig. 6.



Witnesses:

W. H. Auferschnitt
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Inventor:

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UNITED STATES PATENT OFFICE.

ROBERT E. L. JANNEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO AMERICAN STEEL
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CAR-COUPLING.

1,010,055.

Specification of Letters Patent. Patented Nov. 28, 1911.

Application filed July 21, 1908. Serial No. 444,629.

To all whom it may concern:

Be it known that I, ROBERT E. L. JANNEY, a citizen of the United States, and resident of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Car-Couplers, of which the following is a specification.

This invention relates to car couplers and has particular reference to means for taking up the slack between the knuckle of one coupler and the head of another coupler.

My invention is particularly adapted to light couplers which are used for connecting street, elevated and subway cars where it is the custom to allow the draw bar greater freedom for lateral movement than is called for by the M. C. B. requirements for steam railroad cars. The result of such loose coupling is that in pushing cars or in operating trains of four or more cars there is considerable buckling and jerking, because of the flexibility of the coupling members. That is particularly true where long trains of five to eight cars are operated by unit control, that is, there being a motor in each car and all the cars being controlled by an operator in the forward car.

To overcome the above named difficulties I have devised the invention shown in the accompanying drawings of which;

Figure 1 is a plan view of two couplers each equipped with my device; Fig. 2 is an end view showing the device applied to one knuckle; Fig. 3 is a side elevation thereof; while Figs. 4, 5 and 6 illustrate a modification of the form shown in Fig. 1.

In the drawings, 7, is the coupler head; 8, the guard arm thereof; 9 the knuckle; 10 the knuckle pin; and 11 the lifting pin. Inasmuch as the two heads shown in Fig. 1 are identical, I have deemed it necessary to describe but one thereof. 12 is the take-up device formed preferably of a single piece of metal and polygonal in cross section, one side thereof being flared and fitting snugly within a dovetailed groove, 13, formed

within the face of the knuckle, 9. This takeup piece is provided upon its top with an eye, 14, to which a chain may be attached if desired.

The vertical dovetailed groove, 13, in the knuckle is terminated at a point above the lower face of the knuckle whereby, to provide a supporting seat for the takeup pin, preventing the same from dropping out through the bottom of the groove. This is a desirable and convenient construction, but to those skilled in the art it will be readily apparent that the attachment of the pin to the knuckle may be obtained in a variety of ways, the pin being held in place by any convenient means.

The form shown in Figs. 4, 5 and 6 is similar to that shown in Figs. 1, 2 and 3, except that there is no slot formed in the knuckle. The pin, 15, is suspended from the coupler when not in use, by means of a chain, 16. This form is adapted to be applied to any coupler now in use without the necessity for a special dovetailed slot, as shown in Fig. 1. Upon the face of the pin, 15, I provide corrugations, 17, to prevent the creeping of the pin in service. These teeth or corrugations are also placed on the back of pin 12, although in this particular embodiment of the device there is less likelihood of creeping of the pin.

As will be seen the couplers may be brought together and the coupling operation performed after which the pins may be dropped in place, or the pins may be first placed and the coupling operation follow, thus taking up any slack which may have existed between the two parts. In some cases it may be feasible or desirable to make the pin of wedge form so that it may be placed in the opening.

As various modifications of my invention will readily suggest themselves to one skilled in the art, I do not limit the invention to the specific constructions herein shown and described.

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

The combination of a coupler head having
5 a knuckle pivoted therein, said knuckle having a groove on one face interrupted above the bottom of said face, and a pin adapted to fit in said groove and projecting beyond the face of said knuckle to take up the slack between said coupler head and a second cou-

pler head interlocked therewith, the bottom of said groove forming a supporting seat for said pin.

In testimony whereof, I have hereunto set my hand this 17th day of July, 1908, in the presence of two subscribing witnesses.

ROBERT E. L. JANNEY.

Witnesses:

W. H. CAMERON,
W. E. FOWLER, Jr.