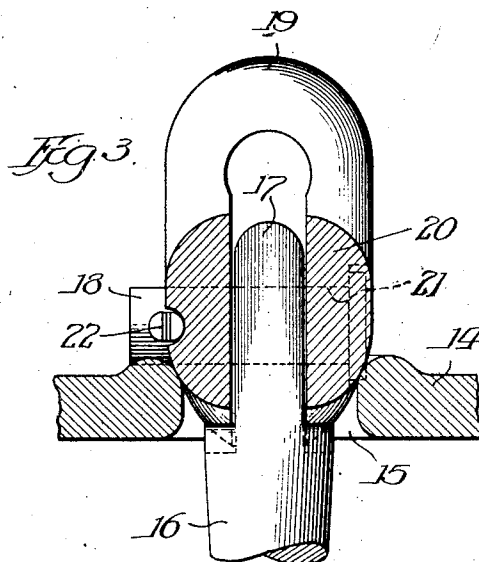
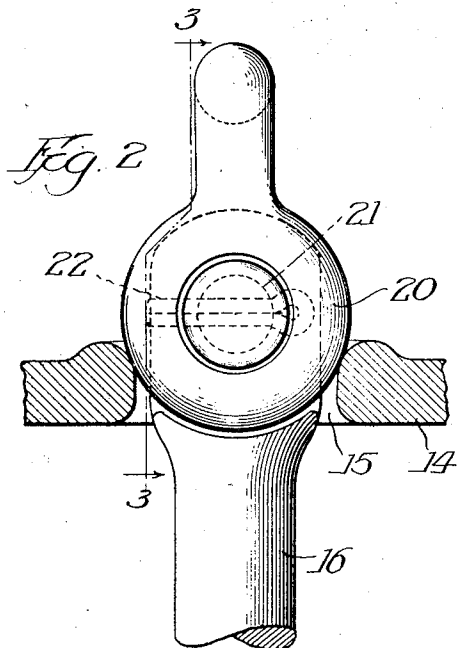
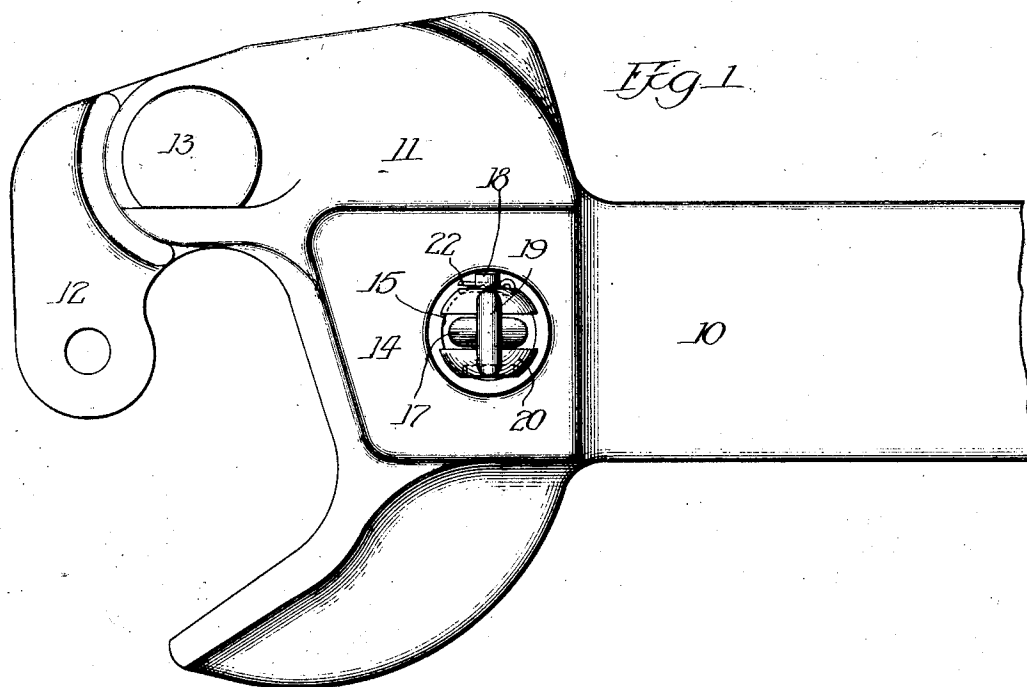


E. P. KINNE.
CLEVIS FOR COUPLINGS.
APPLICATION FILED NOV. 13, 1911.

1,037,926.

Patented Sept. 10, 1912.



Witnesses:

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UNITED STATES PATENT OFFICE.

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CLEVIS FOR COUPLINGS.

1,037,926.

Specification of Letters Patent.

Patented Sept. 10, 1912.

Application filed November 13, 1911. Serial No. 660,047.

To all whom it may concern:

Be it known that I, EDMUND P. KINNE, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Clevises for Couplers, of which the following is a specification.

My invention relates to car couplers and has particular reference to a novel clevis for use in connection therewith.

Many couplers of the Janney type, which are provided with the usual shank, head, knuckle and lock, are so arranged that the lock is lifted by a link pivoted to the lock within the recess in the coupler head. This link usually projects out through the top wall of the coupler head and has attached thereto a clevis to which the lifting chain or lever is in turn secured. In other forms the lock has a solid portion which projects through the top wall and completely fills the opening. This of necessity is not true in the construction employing a link, inasmuch as there must be considerable clearance around the link to permit the necessary free movement and prevent binding. However, where such construction is used it has been found that the portion of the opening left uncovered accumulates deposits of dirt and snow and interferes with the efficient operation of the coupler. Furthermore it is not uncommon for the link when provided with a clevis of common form, to become wedged against the walls of the opening, its removal therefrom being difficult. This cannot occur when my clevis is applied.

The principal object therefore of my invention is to provide a clevis which shall in addition to performing its usual functions completely close the lifter hole when the parts are in their normal operative position, and also prevent the wedging of the link, inasmuch as the upper end of the link can never get below the plane of the opening.

A further object is the provision of a clevis which shall be very strong and durable and which shall be so constructed that the wear may not interfere with its functions.

Other and more particular objects will appear hereinafter.

My invention will be more readily understood by reference to the accompanying drawings, wherein;

Figure 1 is a plan view of a coupler having my novel clevis applied thereto; Fig. 2 is a fragmentary elevation on a large scale, and, Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring more particularly to the drawings, it will be seen that in the coupler shown in Fig. 1, which is of any preferred construction, there is a shank 10, coupler head 11, knuckle 12, and knuckle pivot pin 13. In the top wall 14 of the coupler head is formed an opening 15, through which the upper end of the lock lifter 16 projects. This lifter or link has a body portion, the upper end of which is narrowed as at 17, and perforated for the accommodation of a pin 18, which pin serves to secure my novel clevis to the lifter. This clevis is composed of a single forging or casting and has a loop 19, the ends 20 of the clevis being hemispherical in outline and having registering openings 21 for the accommodation of the pin 18. One of the registering openings is counter-sunk to accommodate the head of the pin 18. A suitable cotter 22 is provided to hold the pin in place.

It will be seen that the opening 15 through the top wall of the coupler is provided with a bead around the upper portion and this furnishes a flared seat on which the hemispherical ends 20 of the clevis may rest when the parts are in normal position. In this way a tight joint is secured, effectually preventing the entrance of dirt or snow and providing at the same time a flexible connection. It will also be observed that there is an unusually large amount of metal at the attaching end of the clevis and that there is no possibility of the device becoming inoperative through wear either of the coupler wall or of the clevis.

Various modifications may be made in the structures herein shown and described, all without departing from the spirit of my invention.

I claim:

A device of the class described comprising, in combination, a coupler having a top wall provided with an opening therethrough, a
5 lifter having a portion projecting through said opening and a clevis attached to said lifter above said wall, the attaching portions of said clevis being substantially hemispheri-

cal in form and adapted, when associated with said lifter, to substantially entirely close said opening, substantially as described.

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Witnesses:

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