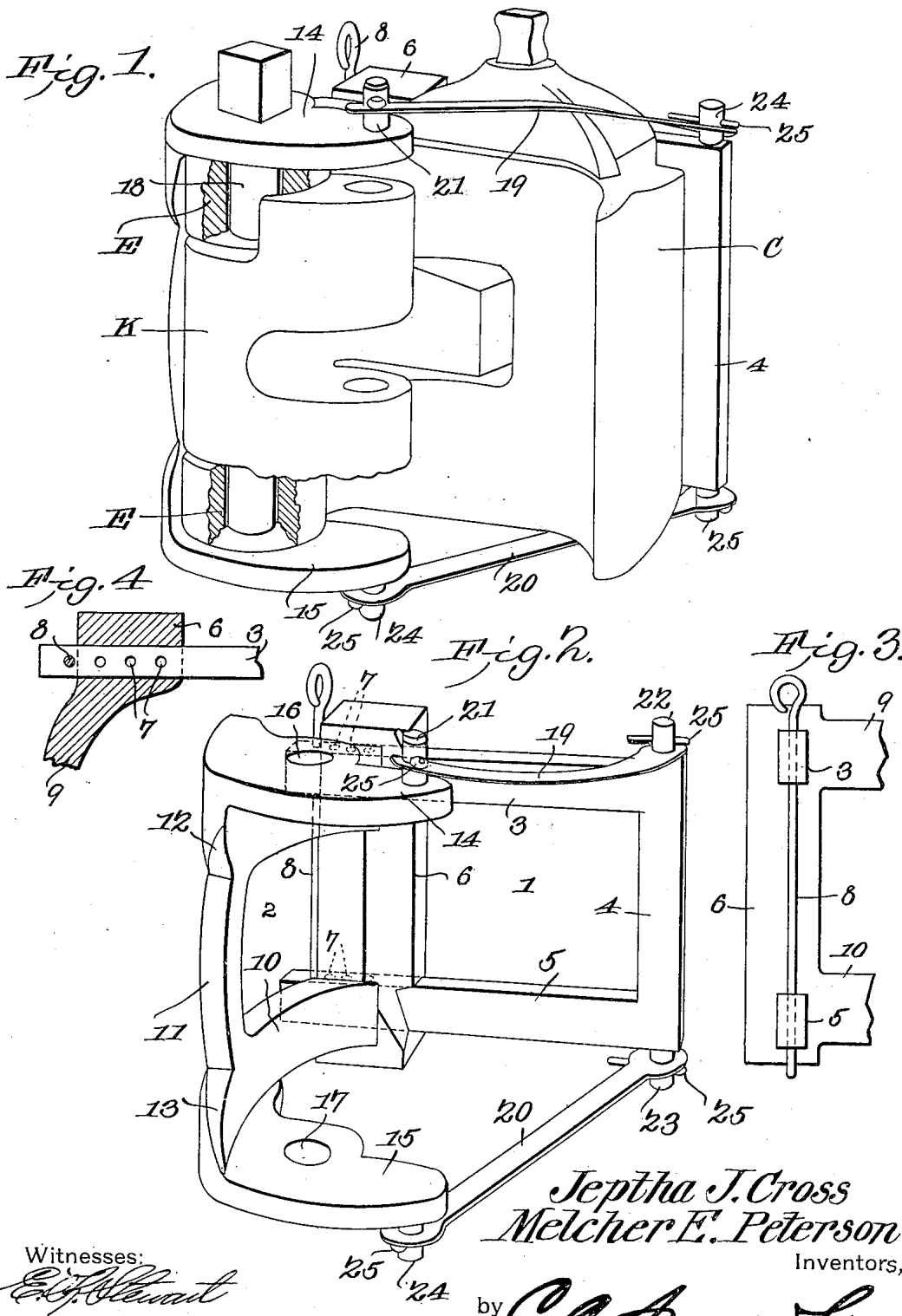


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PATENTED JULY 3, 1906.

J. J. CROSS & M. E. PETERSON.
DEVICE FOR REPAIRING CAR COUPLINGS.

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DEVICE FOR REPAIRING CAR-COUPPLINGS.

No. 824,912.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, JEPHTHA J. CROSS and MELCHER E. PETERSON, citizens of the United States, residing at Evanston, in the county of Uinta and State of Wyoming, have invented a new and useful Device for Repairing Car-Couplers, of which the following is a specification.

This invention relates to a device for effecting temporary repairs of car-couplers.

The object of the invention is to provide a device which will in a simple, ready, thoroughly practical, and effective manner effect repairs of breakages of car-couplers of the Janney type, the device being so constructed as to permit of its being immediately and easily applied for use and adjusted to fit the head of the coupler.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a device for repairing car-couplers, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view in perspective, exhibiting the head of a Janney coupler with the device of the present invention applied thereto. Fig. 2 is a perspective detail view of the device. Fig. 3 is a fragmentary detail view of a portion of the device. Fig. 4 is a horizontal detail sectional view.

The coupler C, which is of the Janney type, is herein shown as having the ears E, that hold the knuckle K in place, broken and repaired by the device of the present invention.

The attachment is a skeleton structure and comprises a yoke (designated generally 1) and a frame, (designated generally 2). The yoke is an open-sided rectangular structure comprising three preferably integral members 3, 4, and 5, the terminals of the members 3 and 5 of which project through orifices in a block 6, forming a part of the frame, as shown in Fig. 3. The members 3 and 5 are provided with a plurality of alined orifices 7 to be engaged by a pin or bolt 8 to hold the members positively combined with the block, and the yoke in position upon the draw-bar,

formed by the three yoke members and the block 6, as shown in Fig. 2.

Projecting from the upper and lower portions of the block are two arms 9 and 10, which, as shown in Fig. 2, are slightly curved, thus to conform to the contour of the coupler-head. These arms are connected near their outer extremities by a web or bar 11, thus to increase their rigidity and enable them to withstand the strains to which they will be subjected in use. The terminals of the arms are beveled or cut away, as at 12 and 13, to permit the knuckle K to operate in the usual manner.

Projecting at right angles to the arms 9 and 10 are ears 14 and 15, each of which is provided with an orifice 16 and 17, respectively, the two orifices being in alinement and are designed to receive a knuckle-pin 18, as clearly shown in Fig. 1. In order to brace the ears against any tendency to yield under strains, brace bars or rods 19 and 20 are employed, the terminals of which are orificed and are designed to engage pintles 21, 22, 23, and 24, that project in opposite directions from the ears 14 and 15 and from the member 4 of the yoke, the brace-bars being held combined with their respective pintles by cotter-pins 25.

To repair a break such as shown in Fig. 1, the yoke is fitted around the draw-bar back of the coupler-head, with the terminals of its members 3 and 5 projecting through the block 6 of the former, and the pin or bolt 8 is then positioned, thus positively assembling the yoke and the frame. The brace-bars are then secured in place and the knuckle-pin passed through the orifices in the ears 14 and 15, thereby positively securing the knuckle in place. When all the parts are thus assembled, the coupler will be as effective for drawing purposes as before, and, in fact, the device need not be removed, but may be left in place, as the coupler will possess the same strength as it did originally.

It will be seen from the foregoing description that although the improvements herein defined are simple in character they will be thoroughly efficient in use for the purposes designed and may be readily applied to the coupler without requiring any change whatever in its structural arrangement. Furthermore, while the appliance is shown in

connection with a coupler of the Janney type it is to be understood that it is not to be limited thereto, as it may be applied to any form of coupler adapted to receive it and still be within the scope of the invention.

We claim—

1. An attachment of the class described comprising a frame, a yoke adjustably connected therewith, and brace-bars connecting the yoke and the frame.

2. An attachment of the class described comprising a frame adapted partially to encircle a coupler-head, a yoke adapted to straddle the draw-bar and to be adjustably combined with the frame, ears carried by the frame and provided with orifices to receive a knuckle-pin, and brace-bars connecting the yoke and the ears.

3. An attachment of the class described comprising a frame, a yoke adjustably connected therewith, ears carried by the frame and provided with orifices to receive a knuckle-pin, pintles projecting from the ears, and the yoke, and brace-bars combined with the pintles.

4. An attachment of the class described comprising a frame having a member provided with orifices, a yoke having members to engage the orifices, means for securing the yoke members in position, ears carried by the frame and provided with aligned orifices, pintles projecting from the ears and from one of

the yoke members, and brace-bars detachably combined with the pintles.

5. An attachment of the class described comprising a frame, a yoke detachably combined therewith, ears carried by the frame and adapted to receive a knuckle-pin, and means connecting the yoke and the ears to hold the members properly positioned relatively to a coupler.

6. An attachment of the class described comprising a frame, a yoke adjustably connected therewith, and means for connecting the yoke and the frame.

7. An attachment of the class described comprising a frame, a yoke adjustably connected therewith, and detachable means for connecting the yoke and the frame.

8. An attachment of the class described comprising a frame embodying curved members to encircle a coupler-head, a yoke to straddle the draw-bar, orificed ears carried by the frame to receive a knuckle-pin; and brace-bars connecting the yoke and the frame.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

JEPHTHA J. CROSS.

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Witnesses:

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