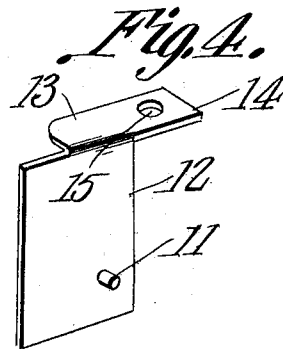
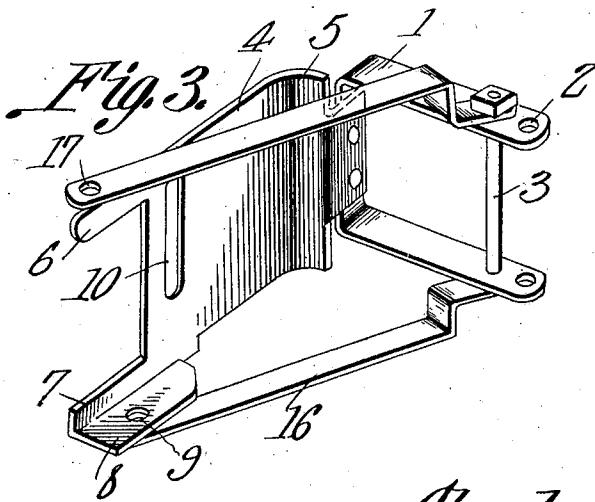
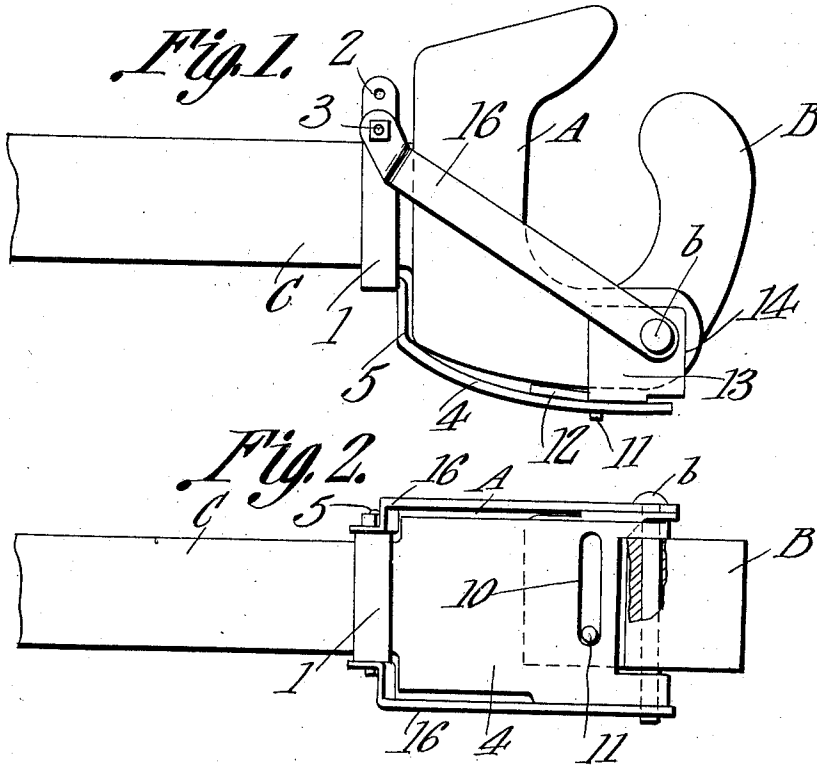


C. F. SULLIVAN.  
REPAIR ATTACHMENT FOR CAR COUPLINGS.  
APPLICATION FILED APR. 26, 1910.

983,412.

Patented Feb. 7, 1911.



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES FRED SULLIVAN, OF JUDITH GAP, MONTANA.

REPAIR ATTACHMENT FOR CAR-COUPPLINGS.

983,412.

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed April 26, 1910. Serial No. 557,652.

*To all whom it may concern:*

Be it known that I, CHARLES F. SULLIVAN, a citizen of the United States, residing at Judith Gap, in the county of Meagher and State of Montana, have invented a new and useful Repair Attachment for Car-Couplers, of which the following is a specification.

This invention relates to attachments for use in connection with broken draw heads of car couplers and its object is to provide a simple and durable device adapted to be secured upon the draw head of a coupler when one or both of the pin receiving holes become broken out, thus releasing the knuckle.

Heretofore, when the pivot pin of the knuckle has become released by the breaking of the drawhead, it has been customary to utilize chains for the purpose of fastening the cars together. By the use of the present device, however, the knuckle can be held in proper relation to the draw head and used as ordinarily.

A further object of the invention is to provide an attachment which can be adjusted to drawheads of different sizes.

With these and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a plan view of a car coupler having the present improvement applied thereto. Fig. 2 is a side elevation of the parts shown in Fig. 1. Fig. 3 is a perspective view of one of the members of the attachment and showing the brace straps in position thereon. Fig. 4 is a perspective view of the other member of the attachment.

Referring to the figures by characters of reference A designates the drawhead of a coupler, B designates the knuckle thereof and C designates the drawbar, the said knuckle being connected to the drawhead by means of a pivot pin b.

The attachment constituting the present invention consists of a yoke 1 the two opposed arms of which are formed with series of apertures 2 for the reception of a clamping bolt 3. A plate 4 is secured to or formed with the intermediate portion of the yoke and is off-set laterally at an intermediate point as indicated at 5, the free end of the

said plate being recessed to form arms 6 and 7 which are parallel, the arm 7 being provided with a longitudinally extending flange 8 which projects laterally therefrom and has an opening 9 therein. A slot 10 extends transversely within the plate 4 adjacent the arm 6 and is adapted to receive a retaining lug 11 formed upon a plate 12. This plate has a flange 13 at one end and which projects beyond the plate to form an arm 14 within which is an opening 15. Angular bracing strips 16 are arranged upon opposite portions of the yoke 1, each of these strips having an opening at one end for the reception of the bolt 3 while another opening 17 is formed at the other end of each of these strips and is adapted to register or align with the openings 9 and 15.

Should the pivot bolt or pin b become pulled out of the drawhead as a result of the breaking of either or both of the ears in which the said pin is mounted, the attachment which has been described can be utilized for holding the said pin in proper position and thus enable the knuckle B to be used. The attachment is placed in position by securing the yoke 1 upon the drawbar C close to the head A. The flange 8 will thus assume a position upon either the top or the bottom face of the draw head and with the opening 9 in position to receive the pivot pin. A plate 12 is placed between a plate 4 and a side of the drawhead and with the lug 11 seated within the slot 10. The flange 13 will thus rest upon the drawhead and with the opening 15 in position to receive the pin b. The braces 16 are then placed with their openings 17 in register with the openings 9 and 15 and the opposite ends of said brace strips are then secured to the yoke 1 by inserting the bolt 3 through the brace strips and the adjoining openings 2. After the parts have thus been assembled the pivot pin B can be inserted through the alining openings 9, 15 and 17 and through the knuckle B. It will be apparent therefore that the said knuckle can be used in the same manner as if the drawhead were not broken and the braces 16 cooperating with the plates 4 and 12 will hold the pin b positively in its proper place under all conditions. It thus becomes unnecessary to employ chains for the purpose of fastening the cars together. As the plate 12 slidably engages the plate 4, it will be seen that the attachment can be readily adjusted to embrace drawheads of

different sizes. The openings 2 provided in the yoke 1 also permit a certain amount of adjustment of the strips 16.

What is claimed is:—

- 5 1. An attachment of the class described including a drawbar engaging member, pivot pin engaging elements connected to said member, and braces extending from said member for engaging the pivot pin.
- 10 2. An attachment of the class described including a draw bar engaging member, adjustably connected pivot pin engaging elements, one of said elements being connected to the said member and pivot pin engaging
- 15 braces connected to said member.
- 20 3. An attachment of the class described including a drawbar engaging member, an element extending therefrom and having a pivot pin receiving opening, there being a slot within said element, a second element having a pivot pin receiving opening, a projection upon said second element and slidably mounted within the slot, and braces connected to the member for engaging a
- 25 pivot pin carried by the elements, said braces having pivot pin receiving openings.
4. An attachment of the class described

including a drawbar engaging yoke, a member extending therefrom, and adapted to be positioned at one side of a drawhead, a 30 pivot pin receiving flange upon said member, a second member slidably engaging the first mentioned member and having a pivot pin receiving flange, and braces extending from the yoke and contacting with the re- 35 spective flanges for the reception of said pivot pin.

5. A device of the class described including a drawbar engaging yoke, braces extending therefrom, means for binding the yoke 40 upon a drawbar and for connecting the braces to said yoke, an off-set member extending from the yoke, a secondary member adjustably connected thereto, separate pivot 45 pin receiving flanges upon the respective members, said braces lapping the flanges and having pivot pin receiving openings.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES FRED SULLIVAN.

Witnesses:

W. T. FRINGER,

C. H. COLEMAN.