

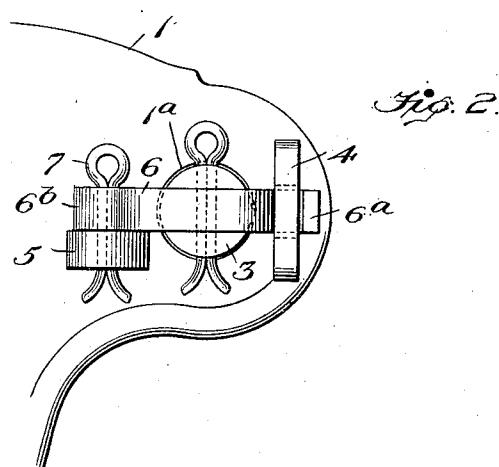
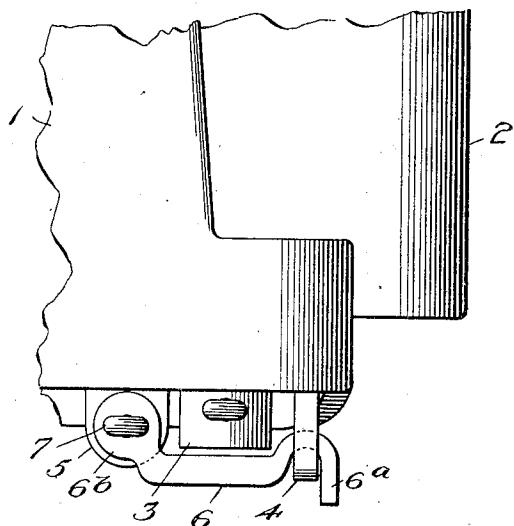
999,036.

J. KELSO.

KNUCKLE PIN RETAINING DEVICE.  
APPLICATION FILED APR. 14, 1911.

Patented July 25, 1911.

Fig. 1.



Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

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## KNUCKLE-PIN-RETAINING DEVICE.

999,036.

Specification of Letters Patent. Patented July 25, 1911.

Application filed April 14, 1911. Serial No. 621,068.

To all whom it may concern:

Be it known that I, JOSEPH KELSO, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State 5 of Pennsylvania, have invented certain new and useful Improvements in Knuckle-Pin-Retaining Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it app- 10 pertains to make and use the same.

My invention relates to the construction of car couplers of the vertical plane type in which a knuckle is rotatably mounted on the 15 coupler head by means of a pivot pin or knuckle pin, and the object of the invention is to provide readily detachable means for maintaining the knuckle pin in operative position even though it may be broken while 20 in service. To effect this object the under side of the coupler head adjacent to the knuckle pin opening therein is provided with a plurality of perforated lugs which support a knuckle pin retaining member that 25 extends under the lower end of the knuckle pin, one end of the retaining member being received by the aperture in one of the lugs and the other end of the retaining member being perforated to receive a headed key or 30 cotter that is received by and maintained in the perforation in the other lug of the coupler head.

In the drawings chosen for the purpose of illustrating my invention, the scope where- 35 of is pointed out in the claim, Figure 1 is a side elevation of a portion of a car coupler showing a knuckle pin retaining device constructed in accordance with my invention; and Fig. 2 is an inverted plan view of the 40 devices shown in Fig. 1, the knuckle of the coupler being omitted.

Like symbols refer to like parts wherever they occur.

I will now proceed to describe my invention more fully, so that others skilled in the art to which it appertains may apply the same.

In the drawings, 1 is the coupler head, 2 the knuckle and 3 the knuckle pin by which 50 the knuckle is pivotally mounted on the

head. Except as hereinafter described these parts may be of any suitable or well known construction.

Formed on the coupler head 1 and projecting downwardly from the under face 55 thereof on opposite sides of and adjacent to the usual knuckle pin hole 1<sup>a</sup> therein are a plurality of perforated supporting lugs 4 and 5, respectively, whose perforations preferably extend at right angles to each other. 60 The perforation or aperture in the supporting lug 4 is adapted to receive one end of the knuckle pin retaining member 6, while the perforation in the supporting lug 5 receives the headed pin or cotter 7 by which 65 the other end of the retaining member 6 is connected to the coupler head. As shown more particularly in Fig. 1, the end of the knuckle pin retaining member 6 which enters the aperture in the supporting lug 4 70 is preferably formed as a downwardly opening hook 6<sup>a</sup>, while the opposite end 6<sup>b</sup> of the retaining member is provided with a hole through which the cotter 7 extends.

In order to prevent the knuckle pin 3 from 75 creeping or jarring upwardly when the coupler is in service, a cotter 8, which extends through a transversely extending aperture in the lower end of the knuckle pin, may be employed.

After the knuckle pin 3 is in place, the hooked end 6<sup>a</sup> of the retaining member 6 is passed through the corresponding aperture in the supporting lug 4, the perforation in the other end, 6<sup>b</sup>, of the retaining member 85 is then brought into alinement with the corresponding perforation in the supporting lug 5 and the headed pin or cotter 7 is passed through the alined openings in the retaining member and lug. The knuckle pin retaining 90 member 6 is thus supported from the coupler head in a position below the lower end of the knuckle pin 3 so as to prevent the latter from dropping out of its pivot pin holes should it be broken while in service.

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

In a knuckle pin retaining device for car couplers, the combination with the coupler 100

head, knuckle and knuckle pin, said coupler head being provided on its under face with a plurality of downwardly extending perforated lugs, of a knuckle pin retaining member extending under the lower end of said knuckle pin and provided with a perforation and with a hooked end which engages one of said perforated lugs, and a pin extending through the perforation in said

retaining member and engaging the other of 10 said perforated lugs.

In testimony whereof I affix my signature, in the presence of two subscribing witnesses.

JOSEPH KELSO.

Witnesses:

J. W. HARTLEY,  
F. D. ECKER.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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