

L. A. HOERR.
 ANGLE COCK HOLDER FOR RAILWAY CARS.
 APPLICATION FILED MAY 5, 1910.

965,902.

Patented Aug. 2, 1910.

Fig. 1.

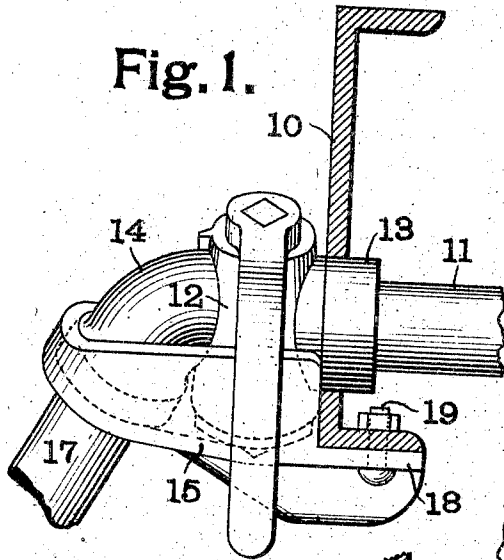


Fig. 2.

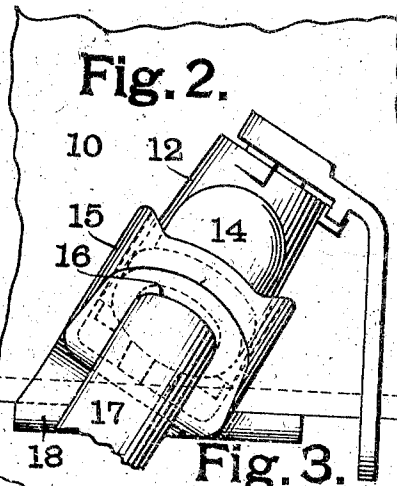


Fig. 3.

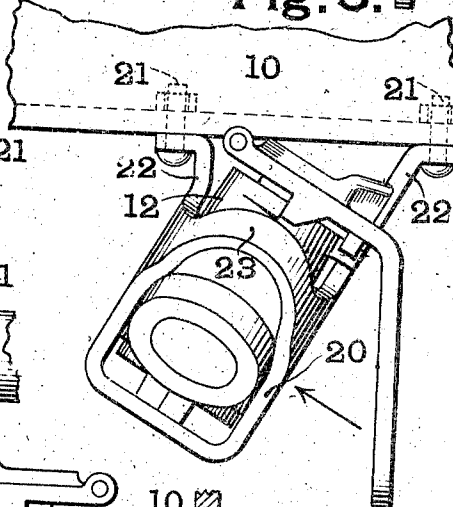


Fig. 4.

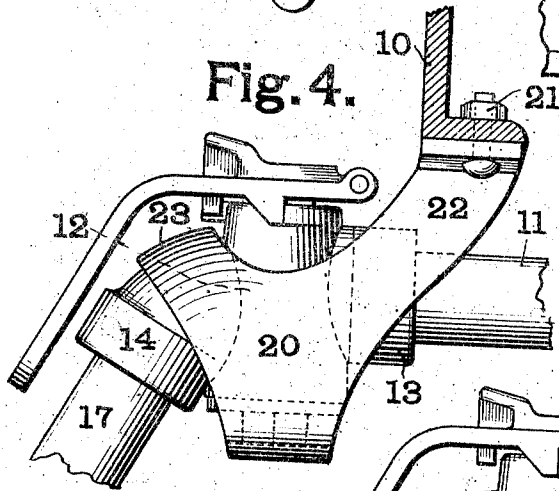
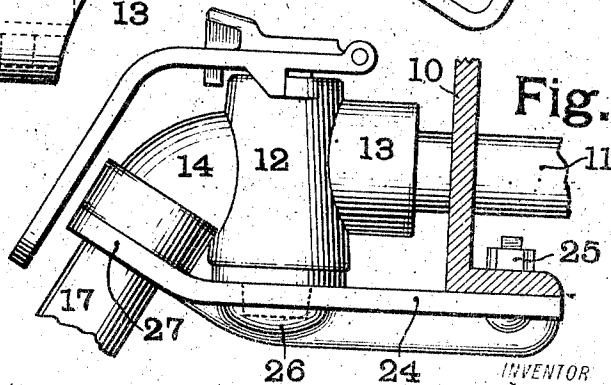


Fig. 5.



WITNESSES:

L. L. Mead.
 W. H. Alexander.

INVENTOR
 Louis A. Hoerr

Jawles & Huffman
 ATTORNEYS

UNITED STATES PATENT OFFICE.

LOUIS A. HOERR, OF ST. LOUIS, MISSOURI.

ANGLE-CKOCK HOLDER FOR RAILWAY-CARS.

965,902.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed May 5, 1910. Serial No. 559,576.

To all whom it may concern:

Be it known that I, LOUIS A. HOERR, a citizen of the United States, residing at the city of St. Louis, Missouri, have invented a certain new and useful Angle-Cock Holder for Railway-Cars, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

In order to prevent the angle cocks of railway cars from being rotated out of their proper angle and also to prevent them from being accidentally detached from the train-pipe it has been customary heretofore to provide angle cock holders which engage with the head of the angle cock. The head of the angle cock is usually hexagonal in form and is slightly enlarged so as to form a forward shoulder. Owing to this the holder engaging the head of the angle cock may prevent both the rotation and longitudinal movement of the angle cock. In some cases, however, it is desirable to have the head of the angle cock straight and cylindrical and it is also desirable in some instances to allow the head of the angle cock to project through an opening in the end sill in order that the body of the angle cock may be arranged at the standard distance from the face of the coupler. In either case it is impossible to secure the angle cock by means of a holder engaging with its head.

The object of the present invention is to provide an angle cock holder which will engage with the angle cock forward of its body portion so as to overcome the objections above referred to.

In the accompanying drawings which illustrate some forms of angle cock holder made in accordance with my invention, Figure 1 is a side elevation, the end sill being shown in section; Fig. 2 is a front view of the holder shown in Fig. 1; Fig. 3 is a front view showing a slight modification; Fig. 4 is a view of the holder shown in Fig. 3 looking in the direction indicated by the arrow, and Fig. 5 is a view similar to Fig. 4 but showing a still further modification.

Like marks of reference refer to similar parts in the several views in the drawings.

10 represents the end sill of the car and 11 the train-pipe. The train-pipe 11 is secured to the angle cock which consists of a

body portion 12, a head 13 and a nozzle 14. In the drawings the head 13 is shown as straight and cylindrical. In Fig. 1 it is also shown as projecting through an opening in the end sill 10 in order to secure the proper standard distance between the body 12 of the angle cock and the face of the coupler.

15 is the body of the angle cock holder which is made in the form of a pocket adapted to receive the lower end of the nozzle 14 and also to embrace the lower end of the body 12 of the cock. The body 15 of the holder is provided with an opening 16 for the passage of the hose pipe 17 which is secured in the end of the nozzle 14. The holder 15 is secured to the end sill 10 by means of a bracket 18 through which and the flange of the end sill 10 pass bolts 19. It will be evident that the holder 15 by engaging with the lower end of the nozzle 14 and the body 12 firmly holds the angle cock against rotation and at the same time effectively prevents it from becoming disengaged from the train-pipe 11.

In Figs. 3 and 4 I have shown a modification adapted to be applied to angle cocks which are arranged below the end sill 10. In this modification the body of the holder consists of a pocket 20 adapted to embrace the lower end of the body 12 of the angle cock. The pocket 20 is secured to the end sill 10 by bolts 21 passing through upwardly extending brackets, 22. The pocket 20 is also provided with a strap 23 which passes around the nozzle 14 immediately forward of the body 12.

In Fig. 5 I have shown a still further modification in which a flat plate 24 is secured to the end sill 10 by means of bolts 25. This plate is provided with a small pocket 26 adapted to receive the extreme lower end of the body 12 of the angle cock. The plate 24 is also provided with an upwardly inclined lip 27 engaging with the lower end of the nozzle 14 and provided with a suitable opening to allow the passage of the hose pipe 17.

It will be evident that with all the forms of my angle cock holder the angle cock may be firmly secured both against rotation and longitudinal displacement and this may be done even though the head of the angle cock were straight or cylindrical or whether it passes through an opening in the end sill.

Having fully described my invention, what

I claim as new and desire to secure by Letters Patent of the United States, is:

1. An angle cock holder arranged to engage the angle cock forward of its body to prevent the withdrawal of the cock from the train-pipe, said holder being provided with means for securing it to the car.
2. An angle cock holder having a pocket engaging the lower end of the body of the cock to prevent its rotation, said holder also engaging the cock forward of its body to prevent the withdrawal of the cock from the train pipe, said holder being provided with means for securing it to the car.
3. An angle cock holder having a pocket to receive the end of the nozzle of the cock, said pocket also receiving the lower end of the body of the cock, said holder being provided with means for securing it to a car.
4. An angle cock holder having a pocket

to receive the end of the nozzle of the cock, said pocket being provided with an opening for the passage of the hose pipe, said holder being provided with means for securing it to the car.

5. An angle cock holder having a pocket to receive the end of the nozzle of the angle cock, said pocket also receiving the lower end of the body of the cock, said pocket being provided with an opening for the passage of the hose pipe, said holder being provided with means for securing it to a car.

In testimony whereof, I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

LOUIS A. HOERR. [L.S.]

Witnesses:

W. A. ALEXANDER,
ELIZABETH BAILEY.