L. A. HOERR.

ANGLE COCK HOLDER.

APPLICATION FILED MAY 28, 1915.

1,167,071.

Patented Jan. 4, 1916.

Fig. 1.

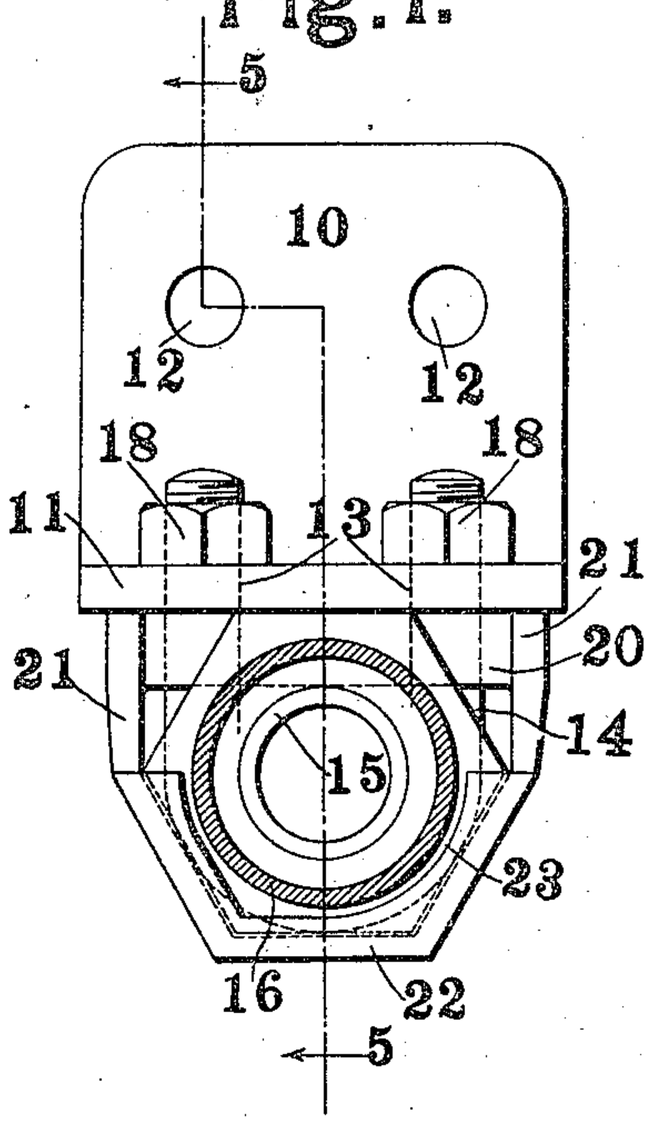


Fig. 2.

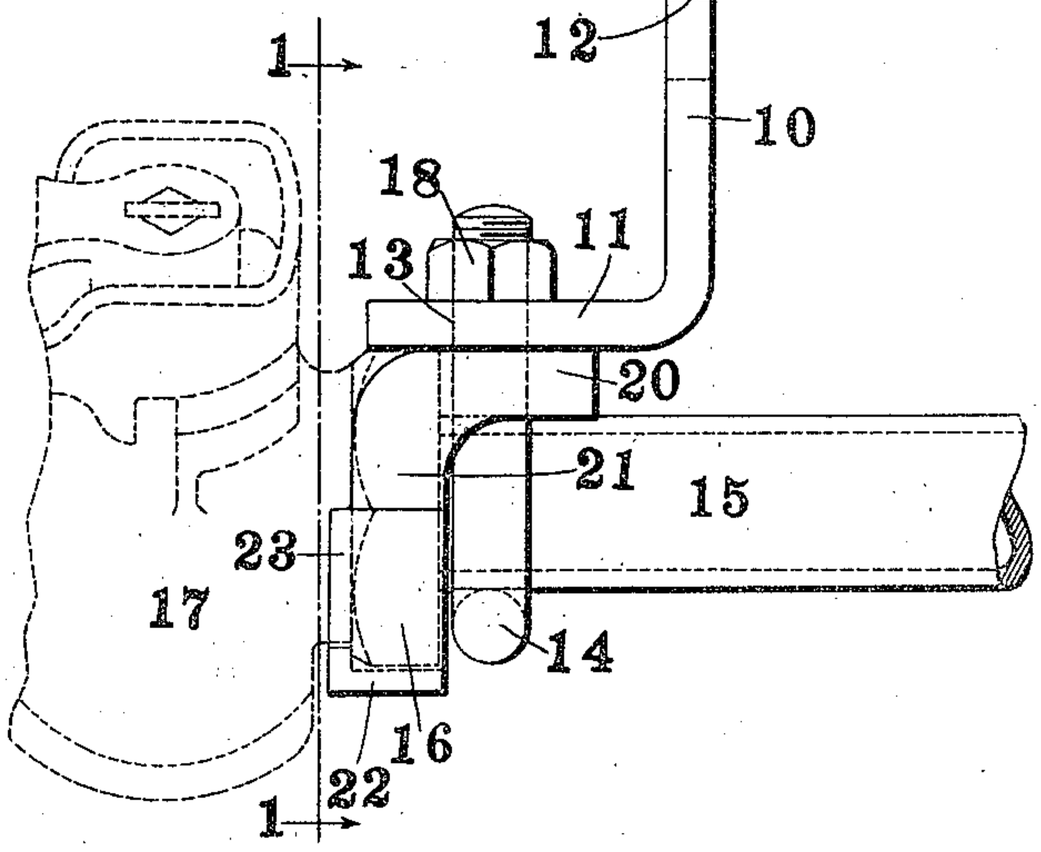


Fig. 3.

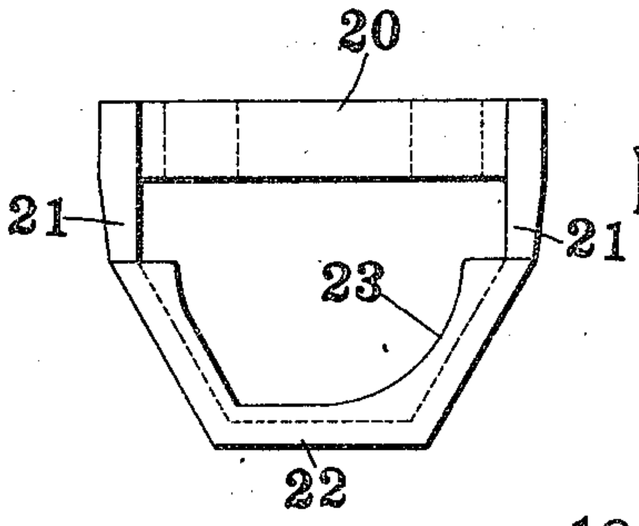


Fig. 4.

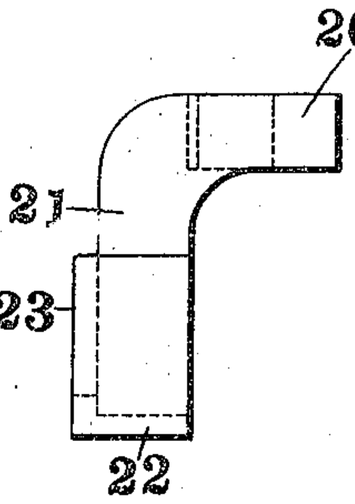
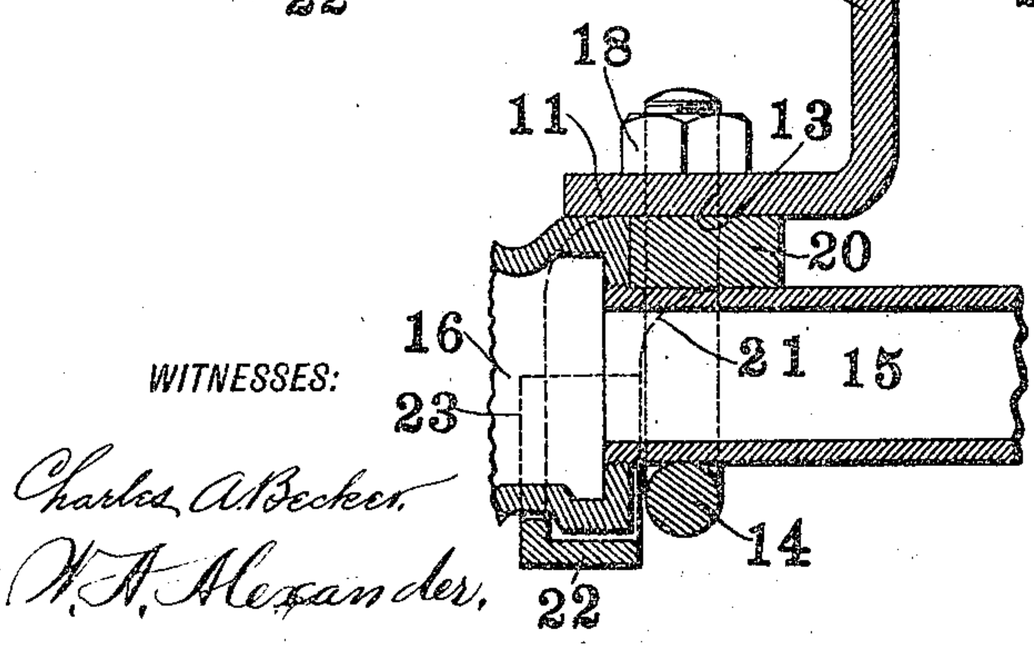


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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

ANGLE-COCK HOLDER.

1,167,071. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed May 28, 1915. Serial No. 30,904.

To all whom it may concern:

Be it known that I, LOUIS A. HOERR, a citizen of the United States of America, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Angle-Cock Holder, 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.

My invention relates to an angle cock holder and has for its object the production of an angle cock holder which will be simple in construction and effective in operation, and which can be readily applied to existing structures without any change.

In the accompanying drawings, which illustrate an angle cock holder made in accordance with my invention, Figure 1 is a section taken on the line 1—1 of Fig. 2; Fig. 2 is a side view, the angle cock being shown in dotted lines; Fig. 3 is a front view of the filler block and pocket detached from the remainder of the device; Fig. 4 is a side view of the parts shown in Fig. 3; and Fig. 5 is a vertical longitudinal section.

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

The angle cock is adapted to be held against or close to the base plate which may consist of a suitable part of the car itself. In the present instance, however, I have shown a detachable bracket consisting of a vertical flange 10 and a horizontal flange 11. The vertical flange 10 is provided with openings 12 adapted to receive bolts or rivets to secure the bracket to any suitable portion of the car. The horizontal flange 11 is also provided with openings 13 adapted to receive the ends of a U-bolt 14. This U-bolt 14 passes around the train pipe 15, the end of which is threaded into the head 16 of the angle cock 17. The nuts 18 engage the ends of the bolt 14 so as to draw one face of the head of the angle cock firmly against the flange 11. All of the above described parts are old and well-known and constitute a standard form of construction.

While this form of construction holds the angle cock effectively against turning, it does not have any means for preventing the forward movement of the angle cock and, consequently, will not prevent the loss of the angle cock in case it becomes broken off or otherwise detached from the pipe 15. Furthermore, if the nuts 18 are screwed up very tightly, very great strain is brought on the pipe 15 at its weakest point, that is, at the point where it is threaded into the angle cock head 16. In order to overcome these objections, I provide a filler block and pocket which will now be described. Arranged between the horizontal flange 11 of the base plate and the train pipe 15 is a filler block 20. This filler block 20 is provided with openings 21 for the passage of the ends of the U-bolt 14. The thickness of the filler block 20 is preferably the same as the distance from the pipe 15 to the face of the angle cock head so as to cause both the filler block and the face of the angle cock head to bear against the flange 11 when the nuts 18 are tightened. It will be evident, however, that, if so desired, the filler block 20 may be made somewhat thicker so as to hold the face of the angle cock out of actual contact with the flange 11. Carried by the filler block 20 are a pair of forwardly and downwardly projecting arms 21 formed integral with which is a pocket 22 adapted to receive three sides of the head of the angle cock. This pocket 22 is also provided with a flange 23 for limiting the forward movement of the angle cock so as to prevent its loss. It will be evident that the use of this pocket effectively prevents the turning of the angle cock even in case the face of the head is not brought into actual contact with the flange 11, and that the use of the flange 23 effectively prevents the forward movement of the angle cock and its consequent loss. The use of the filler block 20 effectively prevents any strain tending to shear the pipe 15 owing to the undue tightening of the nuts 18.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. In an angle cock holder, the combination of a base plate, with a member engaging said base plate and the train pipe to hold one face of the angle cock adjacent to the base plate, and a filler block arranged between said base plate and train pipe.

2. In an angle cock holder, the combination with a base plate, of a U-bolt adapted to surround the train pipe and hold one face of the angle cock adjacent to said base plate, and a filler block arranged between the train pipe and the base plate.

3. In an angle cock holder, the combina-

tion with a base plate, of a member engaging with said base plate and the train pipe, a filler block arranged between said base plate and the train pipe, and means carried by said filler block for engaging the head of the angle cock to prevent its rotation.

4. In an angle cock holder, the combination with a base plate, of a member engaging said base plate and the train pipe, a filler block arranged between said base plate and train pipe, and a pocket for the head of the angle cock carried by said filler block.

5. In an angle cock holder, the combination with a base plate, of a U-bolt adapted to surround the train pipe, a filler block arranged between the train pipe and the base plate, and a pocket for the head of the angle cock carried by said filler block.

6. In an angle cock holder, the combination with a base plate, of a member engaging said base plate and the train pipe, a filler block arranged between the train pipe and base plate, and a member carried by said filler block for engaging the head of the angle cock to prevent its rotation, said latter named member being provided with means for limiting the forward movement of the angle cock head.

7. In an angle cock holder, the combination with a base plate, of a member engaging said base plate and the train pipe, a filler block arranged between the train pipe and the base plate, and a pocket for the head of the angle cock carried by said filler block, said pocket being provided with a flange adapted to engage with the front side of the angle cock head to limit its forward movement.

8. In an angle cock holder, the combination with a base plate, of a U-bolt adapted to surround the train pipe, a filler block arranged between the train pipe and the base plate, and a pocket for the head of the angle cock carried by said filler block, said pocket being provided with a flange adapted to engage with the front side of the angle cock head to limit its forward movement.

In testimony whereof, I have hereunto set my hand and affixed my seal.

LOUIS A. HOERR. [L. S.]

Witness:

W. A. ALEXANDER.