

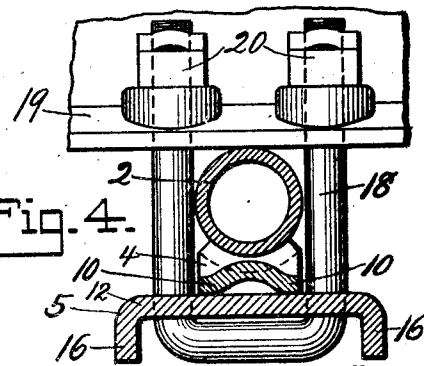
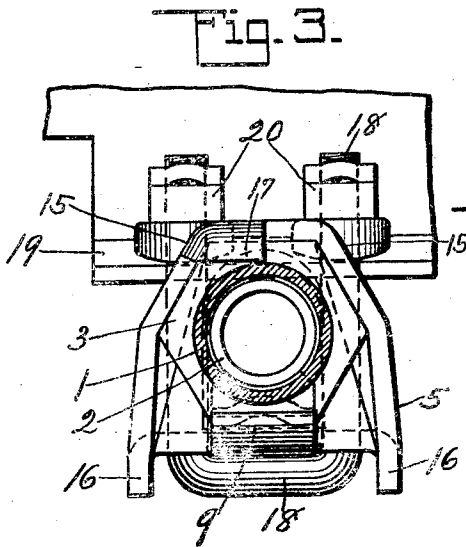
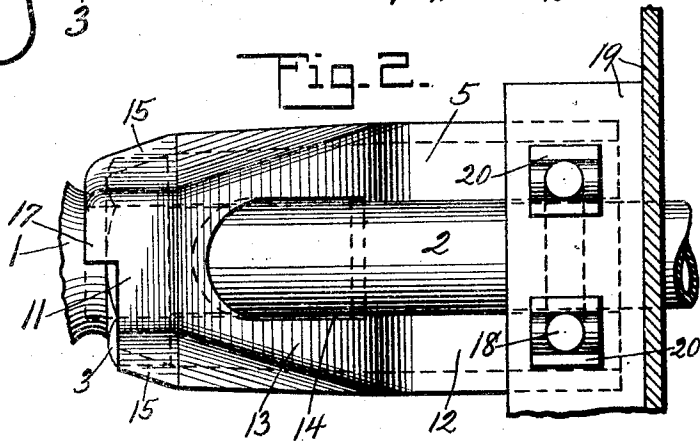
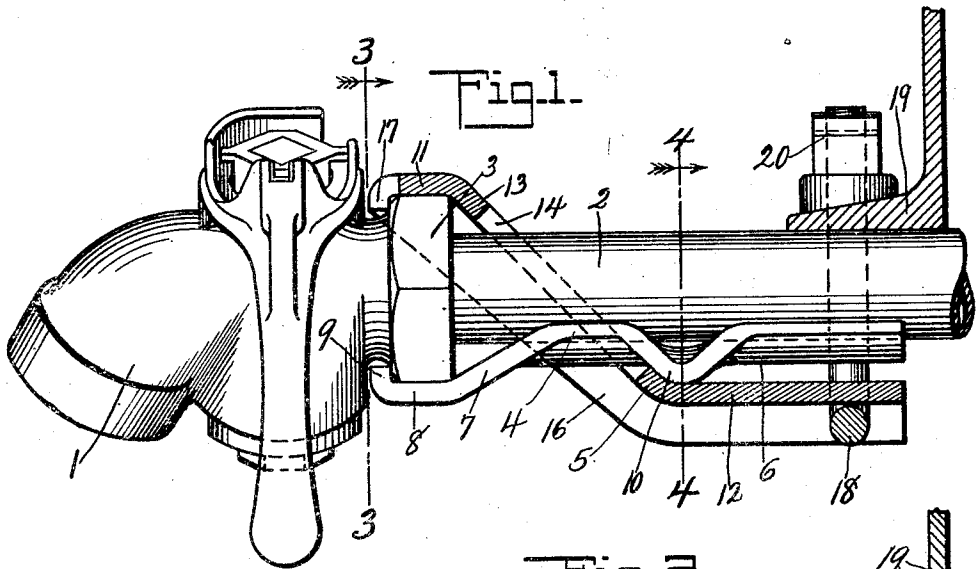
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1,556,060

V. WILLOUGHBY

ANGLE COCK HOLDER

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UNITED STATES PATENT OFFICE.

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ANGLE-COCK HOLDER.

Application filed December 23, 1924. Serial No. 757,699.

To all whom it may concern:

Be it known that I, VICTOR WILLOUGHBY, residing at Ridgewood, county of Bergen, State of New Jersey, and being a citizen of the United States, have invented certain new and useful Improvements in an Angle-Cock Holder, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and to use the same, reference being had to the accompanying drawings, which illustrate the preferred form of the invention, though it is to be understood that the invention is not limited to the exact details of construction shown and described, as it is obvious that various modifications thereof within the scope of the claims will occur to persons skilled in the art.

In said drawings:

Fig. 1 is a view showing a portion of a train pipe in side elevation with an angle cock carried thereby and the improved angle cock holder secured in place and shown in longitudinal section;

Fig. 2 is a top plan view of the structure shown in Fig. 1 with the angle cock broken away;

Fig. 3 is a transverse sectional view taken along the line 3—3 of Fig. 1; and

Fig. 4 is a transverse sectional view taken along the line 4—4 of Fig. 1.

An object of this invention is to provide an angle cock holder which will be formed of a pair of gripping members positioned in pivotally crossed relation to each other and so constructed that they may be firmly held in engagement with a train pipe with the wrench engaging portion of an angle cock firmly gripped between the jaw portions of the gripping members.

Another object of the invention is to so construct the gripping members that they may be securely held in engagement with the train pipe and angle cock and in proper engagement with each other by means of a single U-bolt which straddles the train pipe and passes through the lower flange of a car sill or bolster.

This improved device is for holding an angle cock 1 in the desired position upon a train pipe 2 and will be so constructed that it may be firmly held in place upon the train pipe and have gripping engagement with the wrench engaging portion 3 of the

angle cock. Two gripping members are provided, one being indicated in general by the numeral 4 and the other by the numeral 5. The gripping member 4 is in the form of an elongated strip having a handle portion 6 which is curved transversely so that it can be positioned beneath the train pipe and have snug engagement with the pipe. The forward end portion of this strip is extended downwardly as shown at 7 and then forwardly as shown at 8 and terminates in an upturned flange or lip 9 which will be positioned in front of the wrench engaging portion 3 of the angle cock when the forwardly extending portion 8 is in flat engagement with the lower face of the wrench engaging portion. This strip 4 is rather narrow as will be seen from an inspection of Fig. 4 and intermediate the length of the handle portion 6 has its side portions extended downwardly as shown at 10 thereby providing a fulcrum upon which the gripping member 5 will rock. This gripping member 5 is wider than the strip or gripping member 4 and has end portions 11 and 12 which are connected by an inclined intermediate portion 13. An opening 14 which is in the form of a longitudinally extending slot is provided in the intermediate portion 13 of the gripping member 5 and is of such width and length that the train pipe and strip 4 may extend through this opening as shown in Figs. 1 and 2. The rear end portion 12 forms a handle portion for this gripping member and will be disposed beneath the handle portion 6 of the gripping member 4 with the fulcrum 10 engaging the gripping member 5 at the junction of the intermediate portion 13 with the forward end of the handle portion 12. It will therefore be seen that when the rear end of the handle portion 12 is drawn upwardly the gripping member 5 will have a tendency to rock upon the fulcrum 10 and the forward end portion or jaw 11 will be held in tight gripping engagement with the wrench engaging portion 3 of the angle cock. The side portions 15 of this gripping member 5 are disposed at an outward and downward incline so that they may engage with the wrench engaging faces of the portion 3 of the angle cock as shown in Fig. 3 and in order to strengthen the gripping member, there has been provided side flanges 16 which extend downwardly from

the sides. It should be further noted that there has been provided a depending lug or lip 17 which extends in front of the wrench engaging portion 3 and will prevent the gripping member 5 from having longitudinal movement upon the train pipe. In order to firmly hold these gripping members in proper relation to each other and in tight engagement with a train pipe, there has been provided a U-bolt 18 which has its bridge portion disposed transversely beneath the handle portion 12 of the gripping member 5 and its arms extending upwardly upon opposite sides of the handle portion 6 of the gripping member 4 and upon opposite sides of the train pipe. These arms extend through openings which will be provided in the lower flange of the bolster 19 and carry securing nuts 20 which when tightened will draw the U-bolt upwardly and cause the gripping member 4 to be held firmly in engagement with the train pipe and the gripping member 5 securely held in place and rocked upon its fulcrum so that the wrench engaging portion of the angle cock will be tightly gripped between the jaws at the forward ends of the gripping members. There has thus been provided a device of this character which is of a simple construction, cheap to produce and easy to apply.

What is claimed is:

1. A clamp of the character described comprising gripping members extending longitudinally in crossed relation and having pivotal engagement with each other adjacent their point of crossing, said gripping members having their forward end portions provided with angle cock engaging jaws and their rear end portions constituting handle portions, and means for drawing the handle portion of one gripping member towards the handle portion of the other gripping member and retaining the gripping members in firm engagement with a train pipe with the wrench engaging portion of an angle cock tightly gripped between the jaw portions.

2. A clamp of the character described comprising a gripping member for extending longitudinally of a train pipe with its outer end portion provided with a jaw for engaging an angle cock, a second gripping member having a handle portion extending longitudinally of the first member and pivotally engaging the same and a portion extending in crossed relation to the first gripping member and having a jaw portion for engaging an angle cock, and fastener means engaging said handle portion for retaining the gripping members in firm engagement with a train pipe and the jaw portions in tight gripping engagement with an angle cock.

3. A clamp of the character described comprising a gripping member for extending longitudinally of a train pipe and having a handle portion for engaging the train pipe

and a forward jaw portion for engaging an angle cock, the handle portion being provided with a fulcrum intermediate its length, a second gripping member having a handle portion engaging said fulcrum and having a forwardly extending diagonally disposed portion provided with an opening for receiving a train pipe and the first mentioned gripping member and at its forward end terminating in a jaw portion for engaging an angle cock at the opposite side thereof from the jaw portion of the first gripping member, and fastener means engaging the handle portion of the second gripping member and adapted to straddle a train pipe and the handle portion of the first gripping member and when tightened retain the gripping members in place upon a train pipe with the jaw portions moved towards each other into tight gripping engagement with an angle cock.

4. A clamp of the character described comprising a gripping member for extending longitudinally of a train pipe and having a pipe engaging handle portion curved transversely and intermediate its length having its side portions extended downwardly to provide a fulcrum, the forward end portion of the gripping member extending at a downward incline and then forwardly for engaging a wrench engaging portion of an angle cock and terminating in an upstanding flange, a second gripping member having a handle portion extending beneath the handle portion of the first gripping member and having rocking engagement with said fulcrum and a portion extending upwardly and forwardly from its handle portion and terminating in a jaw portion for engaging the wrench engaging portion of the angle cock, and a fastener for tightly securing the gripping members in engagement with each other and in engagement with a train pipe and the wrench engaging portion of an angle cock firmly gripped between the forward end portions of the gripping members.

5. A clamp of the character described comprising a gripping member for extending in longitudinal contact with a train pipe and having a fulcrum intermediate its length and an angle cock engaging jaw at its forward end, a second gripping member of greater width than the first gripping member and having a rear handle forming portion, an upwardly and forwardly inclined intermediate portion slotted to receive a train pipe and the first mentioned gripping member, and a forward angle cock engaging portion, the angle cock engaging portion being provided at its forward end with a depending lip and side flanges being provided along the sides of the gripping member with their forward portions disposed at a trans-

verse incline for gripping engagement with the angle cock, and a U-shaped fastener projecting through the handle portion of the second gripping member and upon opposite sides of the first gripping member for extending upon opposite sides of a train pipe and firmly holding the gripping members in place with the second gripping member rocked upon its fulcrum and the angle cock tightly gripped between the jaw portions at the forward ends of the gripping members. 10

In witness whereof I have hereunto set my hand.

VICTOR WILLOUGHBY.