M. J. WHITE.

PIPE VISE.

APPLICATION FILED MAY 25, 1915.

1,175,392. Patented Mar. 14, 1916.

Fig. 1

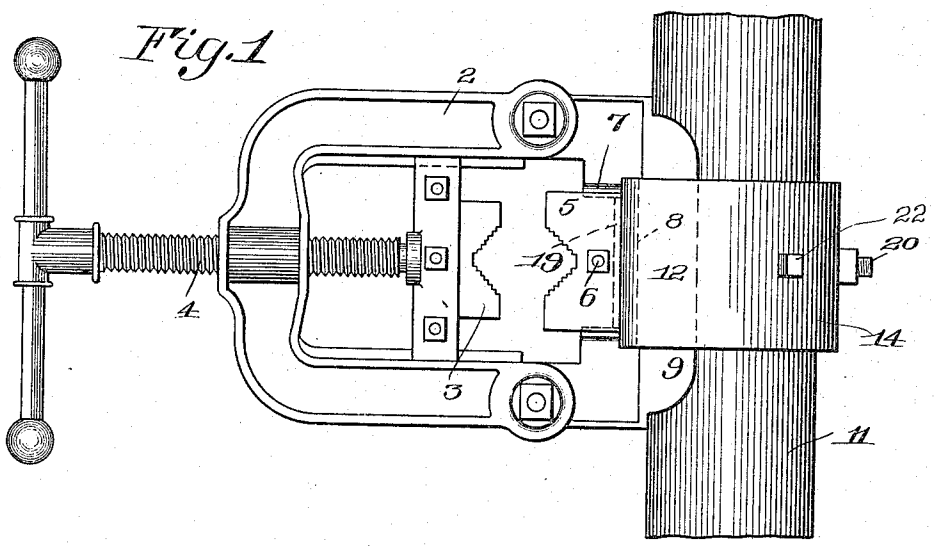


Fig. 2

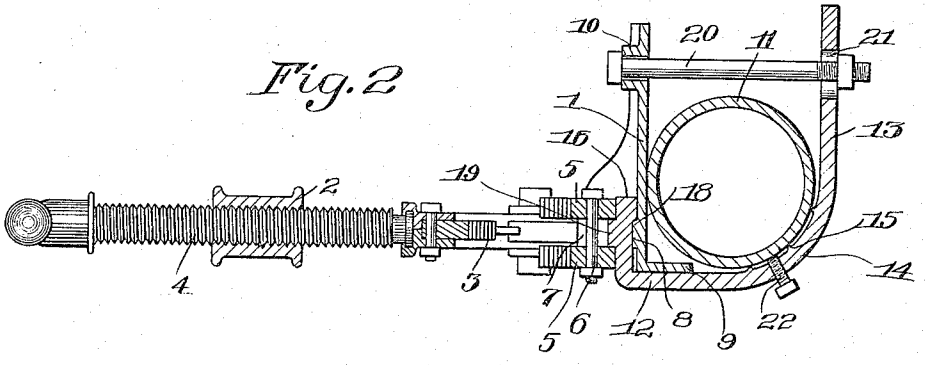


Fig. 4

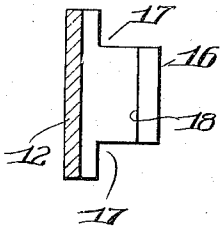
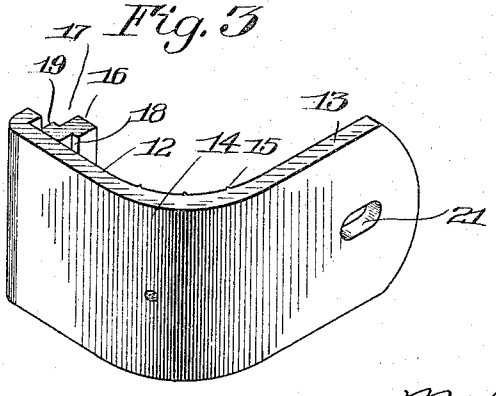


Fig. 3



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PIPE-VISE.

1,175,392. Specification of Letters Patent. Patented Mar. 14, 1916.

Application filed May 25, 1915. Serial No. 30,265.

To all whom it may concern:

Be it known that I, MICHAEL J. WHITE, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Pipe-Vise, fully set forth in the following specification and shown in the accompanying drawings.

The present invention relates to pipe vises and more particularly to the means for securing such vises to a suitable support, an object of this invention being to provide a simple and inexpensive securing means adapted for holding the vise to an upright support such as a post.

To this and other ends, the invention consists in certain parts and combinations of parts all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings: Figure 1 is a front view of a vise secured to an upright post by the present invention; Fig. 2 is a central section through the vise, the post and the securing means; Fig. 3 is a perspective view of the clamping member of the securing means; and Fig. 4 is a detail view of the inturned end of the clamping member.

Referring more particularly to the drawings, 1 indicates a base of a vise which supports a frame 2 on which is guided a movable jaw 3, the movable jaw being operated by a screw 4 in a well known manner. Also supported on the frame 2 are stationary jaw sections 5 held together by bolts 6 on opposite sides of vertical projections 7 and a horizontal rib 8 formed on the base 1, the latter being adapted to be bolted to any flat surface or support and having a depending flange 9 at one edge for coöperation with an edge of such support. This base is also provided with a number of bolt openings of which only one is shown at 10.

For securing the vise to an upright support such as a metallic tubular post 11, there has been provided a clamping member formed of two arms 12 and 13 arranged substantially at right angles to each other and preferably connected by a curved portion 14, the inner curved face of which may be roughened as by parallel ribs 15. The arm 12 may have a laterally-turned portion 16 to overhang the base 1 and to this end, the laterally-turned portion is reduced or cut away at 17 to fit between the vertical projections 7. On one side, this laterally-turned portion is provided with a shoulder 18 for engagement with the rib 8 while on the other side a rib 19 may be formed to space the lower edges of the jaw sections 5. This connection between the base 1 and the clamping member permits the clamping member to rock or pivot slightly on the base 1 so that the post 11 may be clamped between the base 1 and the arm 13 of the clamping member. While, under ordinary conditions, the overhanging portion 16 will provide sufficient interlocking connection between the base 1 and the clamping member yet this interlocking connection is insured by the fact that when the clamp is in use, the stationary jaw sections 5 will be forced against the base 1. For firmly holding the other arm of the clamping member to the base of the vise, a tie bolt 20 is employed which passes through the bolt opening 10 and through a bolt opening 21 in the arm 13. This tie bolt tends to draw the arm 13 toward the base 1 and to cause the overhanging portion of the clamping member to rock on the base, thus firmly clamping the standard or post 11 between the base and the clamping member. The roughened face on the curved portion of the clamping member prevents the turning of the vise as a whole upon the post, and this turning may be still further prevented by the provision of a set screw 22 which is passed through the curved portion 14 to engage also with the supporting member 18.

A vise securing means constructed in accordance with this invention is simple in construction, requiring no machining of the parts and being strong and durable in use. It not only clamps the vise to an upright but prevents the turning of the vise on the upright. Furthermore, it requires but a single bolt to attach the same, thus doing away with a great deal of labor heretofore necessary in securing a vise of this character to an upright support.

What I claim as my invention and desire to secure by Letters Patent is:

1. In combination with a suitable vise base, a clamping member having two arms at angles to each other, one of said arms having a rocking connection with the base and means for drawing the free end of the other arm of said member toward the base to bind a support between the base and said arm.

2. In combination with a suitable vise base, a clamping member having two arms at angles to each other and a portion connecting said arms and having an inner curved roughened face, one of said arms having a rocking connection with the base, and means for drawing the free end of the other arm toward the base to cause the curved inner face to bind against a suitable support.

3. In combination with a suitable vise base, a clamping member having two arms substantially at right angles to each other and a portion connecting the arms and having a roughened curved inner face, one of the arms lying substantially at right angles to the base and having a laterally-turned portion on its extreme end to hook over one side of the base, and adjustable means for securing the free end of the other arm to the base to cause the curved clamp to rock on the base and bind said arm against a support.

4. In combination with a suitable vise base, a clamping member having two arms substantially at right angles to each other, one of said arms having a lateral inwardly turned portion at one end hooking over one side of the base and the other of said arms extending substantially parallel with the base and being provided with a bolt opening near its free end and a bolt connecting said other arm and the base to bind said arm against a support.

5. In combination with a suitable vise base, a clamping member having two arms at angles to each other and a portion connecting the arms and having a roughened curved inner face, one of said arms having a laterally-turned portion to look over the base and rock thereon and the other of said arms being provided with a bolt opening, and a tie bolt connecting said other arm and the base to swing the free end of the arm toward the base in order to draw the curved face in engagement with a suitable support.

6. A clamping member having two arms substantially at right angles to each other and a portion connecting said arms and provided with a roughened curved inner face, one of said arms having a lateral inwardly-turned portion at one end and the other of said arms being provided near its free end with a bolt opening.

7. In combination with a suitable vise base, a clamping member having two arms at angles to each other and a portion connecting said arms and having a curved inner face, one of said arms being mounted to rock on the base, a tie bolt connecting the outer end of the other arm with the base, and a set screw passed through the curved portion.

8. In combination with a suitable base having a shoulder on one face thereof, a clamping member having two arms at angles to each other, one extending substantially parallel with the base and the other being substantially at right angles to the base, one of said arms being provided with a laterally-turned portion overhanging the base, said laterally turned portion having a shoulder for engagement with the shoulder on the base, and means for adjustably tying the other arm to the base.

MICHAEL J. WHITE.

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