T. PEARSON.

PIPE VISE.

APPLICATION FILED APR. 1, 1913.

1,068,924. Patented July 29, 1913.

Fig. 1.

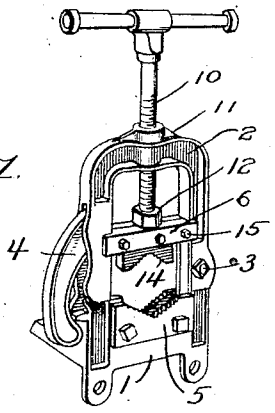


Fig. 2.

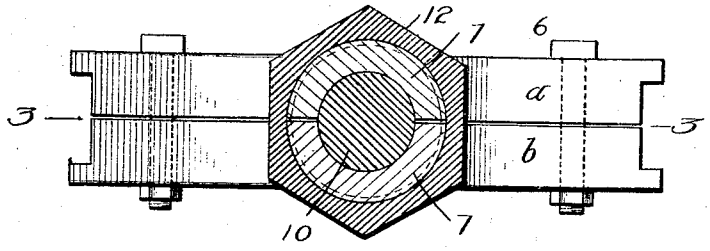
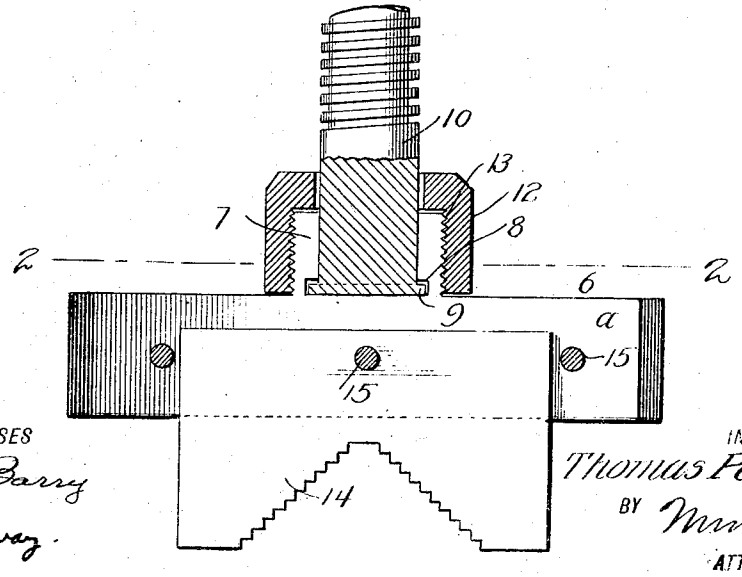


Fig. 3



WITNESSES

F. C. Barry

C. Bradway.

INVENTOR

Thomas Pearson

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS PEARSON, OF SYRACUSE, NEW YORK.

PIPE-VISE.

1,068,924. Specification of Letters Patent. Patented July 29, 1913.

Application filed April 1, 1913. Serial No. 758,161.

To all whom it may concern:

Be it known that I, THOMAS PEARSON, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented a new and Improved Pipe-Vise, of which the following is a full, clear, and exact description.

This invention relates to a bench vise for gripping pipe of that type used by plumbers, pipe fitters and the like, and wherein the upper or sliding jaw is attached to the operating screw by a swiveled connection.

The invention has for its principal object to improve the swiveled connection between the operating screw and movable jaw, and in carrying out the invention the movable jaw is made in two sections, each having a semi-cylindrical flange extending upwardly, which flanges form a cylindrical boss having an undercut shoulder with which an annular flange on the lower end of the operating screw coöperates. The exterior of the boss is screw-threaded, and a nut encircles the boss and engages with the thread thereof, so as to prevent the two sections of the jaw at the swiveled joint from spreading.

With the foregoing object in view, the invention comprises various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawings, which illustrate one embodiment of the invention, and wherein similar reference characters are employed to designate corresponding parts throughout the several views, Figure 1 is a perspective view of my improved pipe vise; Fig. 2 is an enlarged sectional view through the swiveled joint between the operating screw and movable jaw, the section being taken on the line 2—2 of Fig. 3; and Fig. 3 is a vertical section on the line 3—3 of Fig. 2.

Referring to the drawings, 1 designates the base section of the vise frame and 2 the upper or yoke section thereof, the sections being hingedly connected at 3 and held in closed position by a locking device 4 of usual construction. On the base section 1 is a fixed jaw 5 and slidable vertically on the yoke section 2 is a movable jaw 6. This movable jaw is made in two parts *a*, *b*, each having a semi-cylindrical upwardly-projecting member 7 arranged at a medial point. When the two parts *a*, *b* of the movable jaw are in assembled relation the two members 7 form a hollow cylindrical boss. This boss, as shown in Fig. 2, has an undercut shoulder 8 at its base for engaging an annular flange 9 on the lower end of the operating screw 10, which screw is threaded at 11 in the top of the yoke section 2 of the vise. Surrounding the boss is a device 12 that prevents the two parts of the jaw from spreading. In its preferred form this device consists of a nut having internal threads 13 which engage external threads on the boss. The serrated pipe-gripping portion or plate 14 of the movable jaw is clamped between the two parts thereof by bolts 15, but by reason of the location of these bolts they are not sufficient to prevent spreading apart of the two sections *a* and *b* at the swiveled joint between the operating screw and movable jaw, and consequently the nut 12 is employed. In taking the device apart for changing the pipe-gripping element 14, or for any other purpose, the nut 12 is unscrewed and the bolts 15 taken out, thereby permitting the two parts *a* and *b* of the movable jaw to be separated.

From the foregoing description taken in connection with the accompanying drawings, the advantages of the method of operation and of the device shown will be readily understood by those skilled in the art to which the invention appertains, and while I have described the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the appended claims.

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

1. In a device of the class described, the combination of a frame, a movable jaw thereon, an operating screw having an annular flange, said movable jaw having an annular boss provided with an undercut shoulder for engagement with the flange of the screw, and the jaw being divided longitudinally into two parts in a plane passing centrally through the boss, and a device encircling the boss to prevent spreading apart of the sections of the jaw at the connection with the screw.

2. In a device of the class described, the

combination of a frame, a movable jaw thereon, an operating screw having an annular flange, said movable jaw having an annular boss provided with an undercut shoulder for engagement with the flange of the screw, and the jaw being divided longitudinally into two parts in a plane passing centrally through the boss, and a nut threaded externally on the boss for preventing spreading apart of the sections of the jaw at the point of connection with the screw.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS PEARSON.

Witnesses:

HENRY PEARSON,

CHAUNCEY E. WARNER.

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