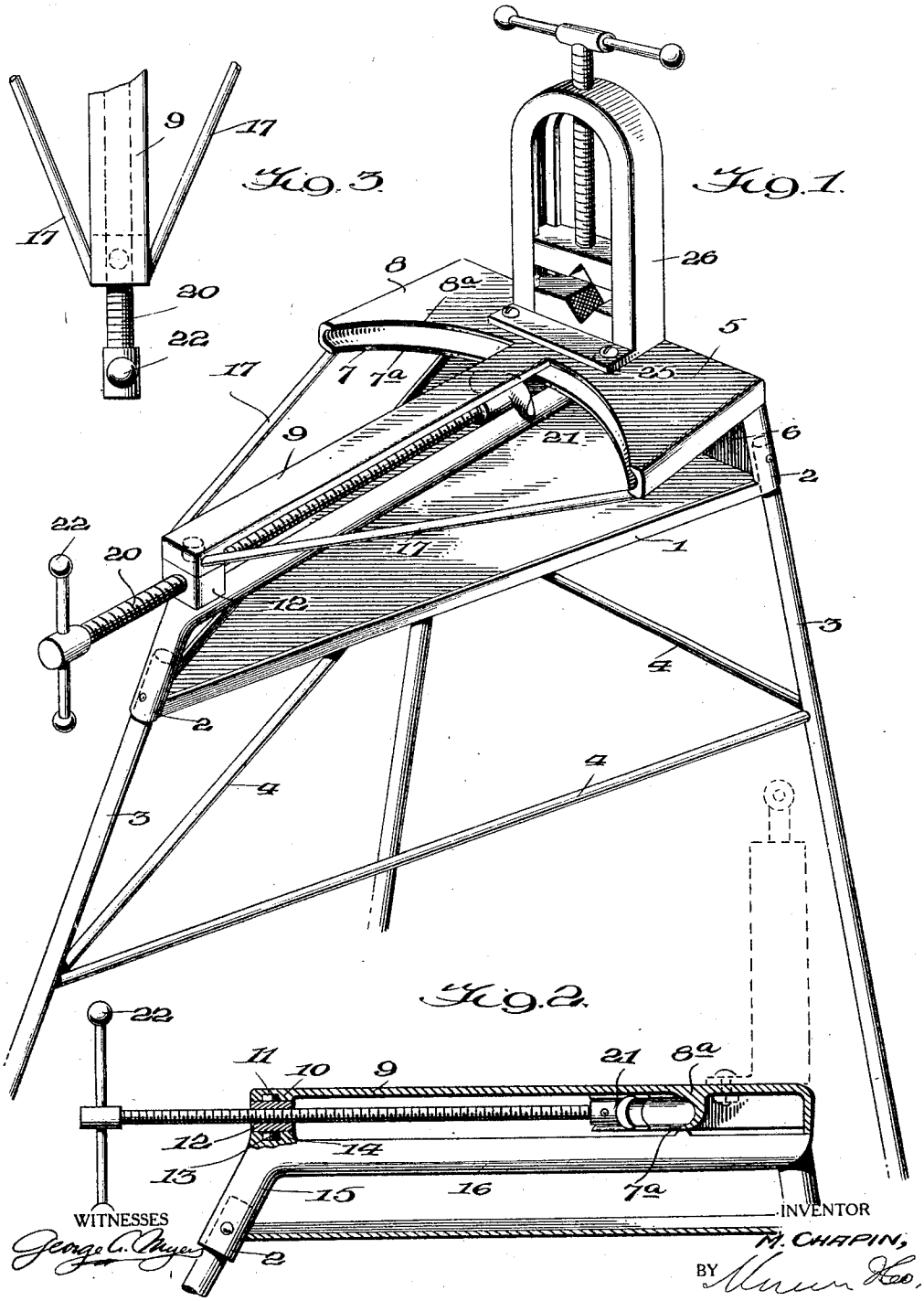
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PIPE BENDER AND VISE MOUNT

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WITNESSES

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PIPE BENDER AND VISE MOUNT.

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This invention relates to an improvement in pipe benders and vise mounts, and aims to provide a device of this character which is of extremely simple and durable construction, which is reliable in operation and easy and comparatively inexpensive to manufacture.

A further object resides in the provision of a device having these advantages and capacities and which may be advantageously employed for bending or shaping a pipe or rod as desired.

A still further object resides in the provision of a device of this character which provides a secure and stable mount for a bench vise.

Other objects and advantages reside in certain novel features of the construction, combination and arrangement of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, reference being had to the accompanying drawings forming a part of this specification, and in which:

Figure 1 is a perspective view showing one embodiment of the invention,

Figure 2 is a view partly in longitudinal central vertical section, parts being shown in elevation for the sake of illustration, and

Figure 3 is a fragmentary plan view illustrating the swivelled mount for the screw of the pipe bender.

Referring to the drawings, the numeral 1 designates a triangular supporting table which is provided at its corners with sockets 2 in which the upper ends of legs 3 are fitted and secured. The legs 3 are braced and strengthened by braces 4. At the large end of the table 1 a shelf 5 is provided, and is supported in spaced relation to the table by means of a supporting wall 6 connected with two of the sockets 2, and also with the shelf 5. This shelf 5 includes a lower wall 7 and an upper wall 8 having curved edges 7^a and 8^a defining a seat for the reception of a pipe or bar. A longitudinal bar 9 is integrally formed with or suitably connected to the upper wall 8 at one end and at its other end is provided with a bearing 10 receiving one trunnion 11 of a swivelled nut 12, the nut 12 having another trunnion 13 rotatably fitted in a bearing 14 in an extension 15 of one of the sockets 2. The extension 15 is braced by a longitudinal rod 16 which extends between the extension and the shelf 5 and supporting wall 6. The end of the bar 9 in which the bearing 10 is formed is braced by brace rods 17 which extend between the same and the adjacent ends of the shelf 5.

A screw 20 is threaded through the nut 12. At one end of the screw a bending shoe 21 is swiveled thereto. At the other end of the screw a handle 22 is provided, to facilitate the turning of the screw. The pipe or rod to be bent is placed against the seat provided by the curved end of the shelf 5 and the screw 20 is turned in its swivelled nut 12 to bring the shoe 21 into engagement with the pipe or rod to be bent at the desired point. The handle 22 is then turned to advance the shoe into bending engagement with the pipe or bar.

The top of the shelf 5 provides a convenient support for the base 25 of a bench vise 26, which is fastened to the top of the shelf 5. Supporting hooks 27 are provided in order that the various tools may be conveniently supported.

I claim:

1. In a device of the character described, a triangular supporting table having sockets, supporting legs having their upper ends fitted and secured in the sockets, a supporting wall connected with transversely alined sockets and with the table, a shelf carried by said supporting wall and having a curved seat adapted to receive a pipe or bar to be bent, a longitudinal bar extending from the shelf to the forward end of the frame, means for bracing said bar, the socket at the forward end of the frame having an extension, means for bracing said extension, the extension and the forward end of the longitudinal bar having vertically alined bearings, a nut having trunnions rotatably fitted in the bearings, a screw threadedly engaged with the nut, a shoe swivelled to the screw and engageable with the pipe or bar to be bent, and means for turning the screw.

2. A device of the character described, and in accordance with claim 1, and wherein the shelf has a flat top adapted to support a bench vise.

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