J. B. MARTENS.

DIE STOCK.

APPLICATION FILED JULY 19, 1913.

1,112,818.

Patented Oct. 6, 1914.

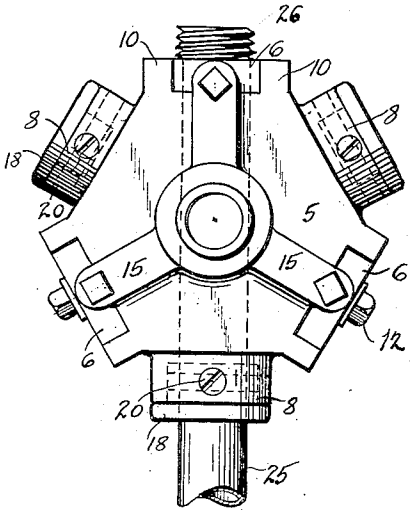


FIG-1

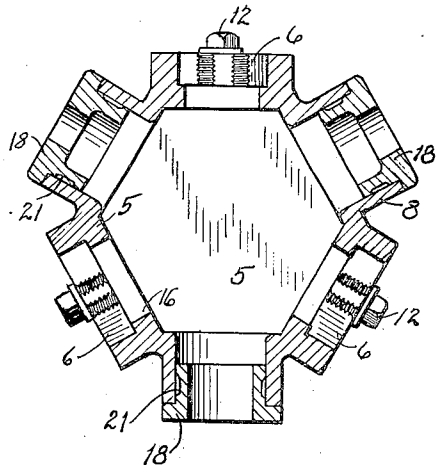


FIG-3

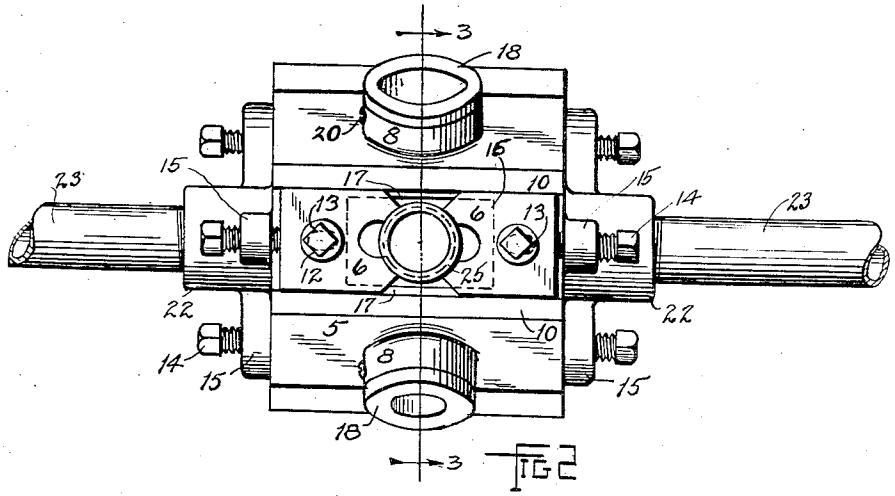


FIG-2

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN B. MARTENS, OF CLEVELAND, OHIO.

DIE-STOCK.

1,112,818. Specification of Letters Patent. Patented Oct. 6, 1914.

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To all whom it may concern:

Be it known that I, JOHN B. MARTENS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Die-Stocks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention is for improvements in die stocks.

It has for an object to provide a die stock which has thereon a plurality of dies ready to be used and which are so arranged that they are in a position midway between the handles of the stock.

Another object is to provide such a stock which will carry adjustable standard thread dies.

In the drawings, Figure 1 is an end elevation of my die stock, showing a portion of a pipe on which a thread is being cut. Fig. 2 is a plan of my die stock also showing a pipe in position to be threaded. Fig. 3 is a central transverse section taken on the line 3—3 of Fig. 2.

5 indicates a hexagonal prism-like frame on which the dies 6 are carried. These dies 6 may be conveniently arranged on three sides of the frame. Suitable guides 8 adapted to slide over the pipe being threaded to guide the die are arranged on the sides diametrically opposite each pair of dies 6.

The dies 6 are fitted between suitable guides 10 conveniently made integral with the frame 5, and are held in place by means of suitable cap screws 11. These cap screws pass through elongated holes 12 on the die members to allow for slight lateral adjustment of the die members. Set screws 14 threaded through lugs 15 integral with the frame 5 are adapted to abut the ends of the die members to provide this lateral adjustment, and also to provide a rigid abutment to prevent the die members moving outwardly. Suitable openings 16 are made beneath the cutting portion of the die member to allow for the passage of the pipe. These openings are conveniently made rectangular, as shown in Fig. 3 and are somewhat narrower than the die members, thus providing a shoulder 17, on each side of the opening, which furnishes additional support for the die members.

The guides 8 are short tubular members which may be conveniently made integral with the frame 5, and are preferably provided with removable bushings 18. These bushings are held in place by set screws 20 engaging a peripheral groove 21 in each bushing. Several of these bushings may be provided for each guide 8, each bushing being adapted to fit a different size of pipe. Thus a wide range of sizes of dies may be used with my stock, there being a suitable bushing for each size of pipe.

Projecting from the center of each end of a frame 5 is a boss 22. In each of these bosses is threaded a tube 23, forming the handles of my die stock.

In Figs. 1 and 3 is shown a pipe 25 extending through one of the guide bushings 18 and into the opposite pair of dies 6, which as shown in these views, are just forming a threaded portion 26 on the end of the pipe. This pipe is shown as being threaded by the largest of the three pairs of dies. It has been found by practice that three sizes of dies cover the pipe fitting for the ordinary house. Accordingly, I have so constructed a die stock that it may carry three pairs of dies in the manner described. Thus for ordinary work the plumber has only to take my stock with him and he has a tool which is ready, without changing, for the sizes of pipe he has to fit. For the three sizes of dies the stock is most conveniently made hexagonal, but it is to be understood that this die stock may have any number of sides expedient with its use.

It will be seen from the foregoing description that I have provided a die stock which may be used with standard dies, adjustable thereon, and which are removable, so that they may be quickly replaced when broken or worn out.

By arranging the dies equidistant from the ends of the frame, the tool is balanced for all of the dies, and is much easier to use than a stock having several dies side by side.

Having thus described my invention, what I claim is:

A die stock comprising a hollow body which in cross section is a polygon having an even number of sides, alternate sides being formed each with a pair of outwardly projecting ribs parallel with each other and providing an outwardly opening rectangu-

lar recess between them, each side diametrically opposite one of said rectangular recesses being formed with a sleeve adapted to carry a bushing, a pair of end members for the body, each having a central tubular extension, lugs carried by the end members extending outwardly opposite the ends of the rectangular recesses, and adjustable dies within the rectangular recesses adjusted by set screws passing through the lugs.

In testimony whereof, I hereunto affix my signature in the presence of two witnesses.

JOHN B. MARTENS.

Witnesses:
ALBERT H. BATES,
BRENNAN B. WEST.