

J. KONIGSBERG.
DIESTOCK.
APPLICATION FILED AUG. 23, 1920.

1,420,847.

Patented June 27, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

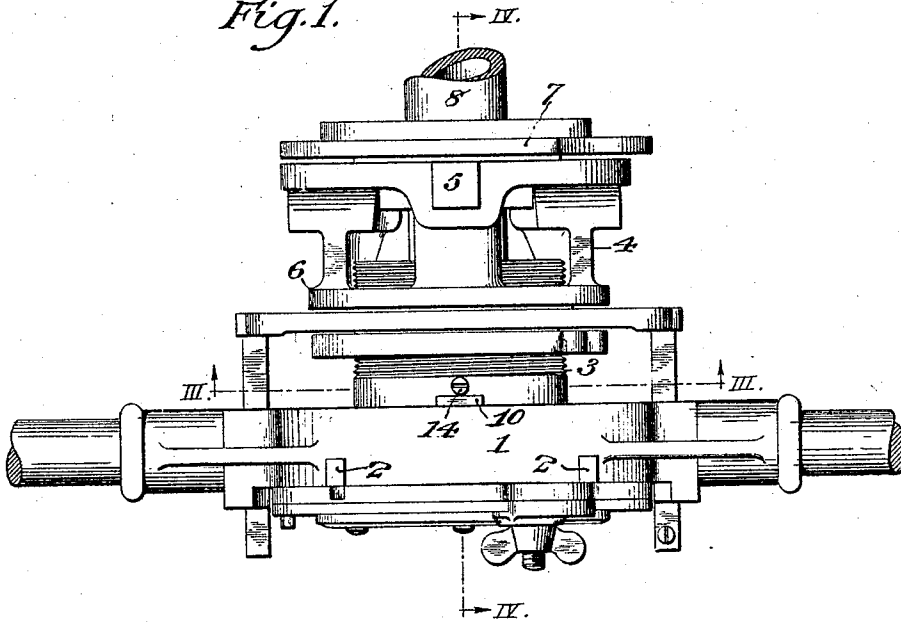
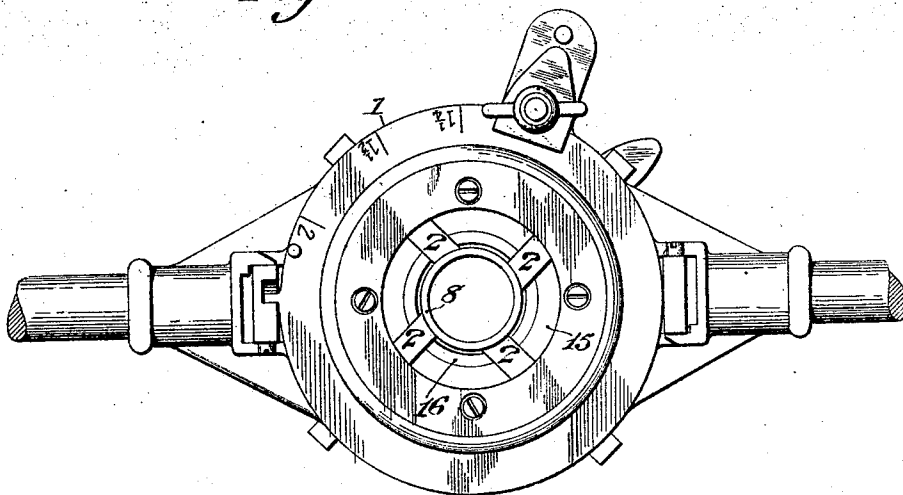


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

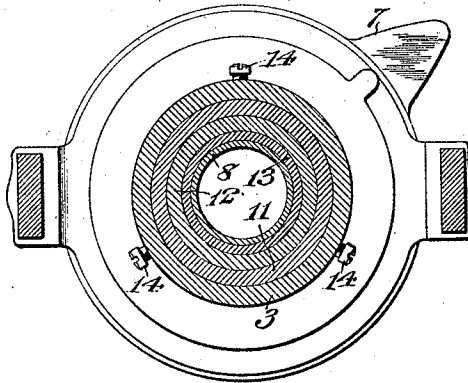
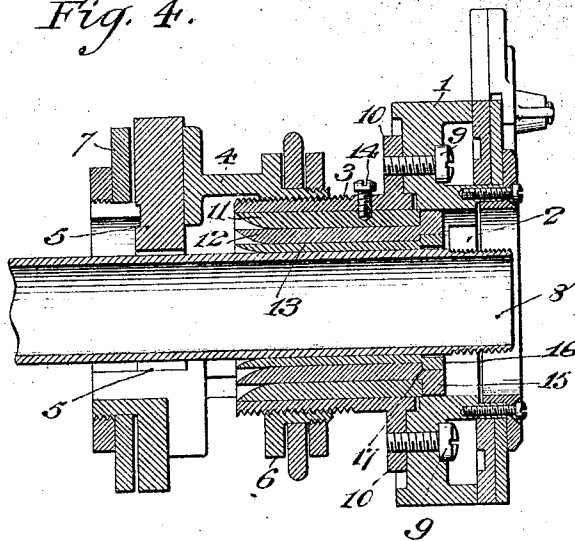


Fig. 4.



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UNITED STATES PATENT OFFICE.

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DIESTOCK.

1,420,847.

Specification of Letters Patent. Patented June 27, 1922.

Application filed August 23, 1920. Serial No. 405,330.

To all whom it may concern:

Be it known that I, JOSEPH KONIGSBERG, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Diestocks, of which the following is a specification.

This invention relates to an improvement in die stocks and has for its object to provide means for centering the stock on the pipe to be threaded, so that the cutting chasers may cut the threads accurately thereon.

The object is more particularly to provide a centering device located immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings interlocked with one another.

Another object is to provide certain improvements in the form, construction and arrangement of the several parts whereby the above named and other objects may be effectively attained.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Fig. 1 represents a plan view of the die stock having my improved centering device applied thereto.

Fig. 2 represents a front elevation of the same.

Fig. 3 represents a vertical section taken in the plane of the line III—III of Fig. 1, looking in the direction of the arrows, and

Fig. 4 represents a vertical central section taken in the plane of the line IV—IV of Fig. 1, looking in the direction of the arrows.

The die stock to which my improved centering device is applied, is of well-known and approved structure and I deem it necessary to describe only such parts as will give a clear understanding of the application of my invention thereto.

The die head is denoted by 1, the cutting chasers located therein by 2 and the leader screw in the form of a barrel by 3.

The usual pipe centering device having a frame 4, carrying guide blocks 5, and provided with a screw threaded nut 6, which is arranged to travel on the leader screw 3.

A guide cam 7 is secured in rotatable adjustment on the frame 4, and serves to move the guide blocks 5 toward and away from the pipe 8 in the usual manner.

The leader screw 3, in the present instance, is shown fixed to the die head 1 by means of screws 9 threaded into ears 10 on the leader screw.

Immediately in advance of the cutting chasers 2 I locate a plurality of removable bushings, in the present instance three are shown, denoted by 11, 12 and 13. The bushing 11 is retained in the barrel of the leader screw 3 and removably secured therein by screws 14 threaded in the leader screw and fastened into the bushing. The bushing 12 is provided with an annular flange 15 and is telescoped in the bushing 11 with the flange resting against the outer edge of the bushing 11. The bushing 13 is also provided with an annular flange 16 and arranged to telescope and seat in the bushing 12 with the flange 16 nested in a recess 17 formed in the outer edge of the bushing 12. The interior diameter of each of the bushings approximately corresponds to the exterior diameter of a pipe upon which it is to be used.

Each of the bushings is also provided with a beveled edge to facilitate the centering of a pipe to be passed therethrough to be operated on by the cutting chasers. Thus it will be seen that any number of bushings may be interlocked with one another in a die stock and leader screw barrel and only conditioned by the range of operation of the cutting chasers that may be used in the die stock. It is obvious that, by locating the bushing, the approximate diameter of the pipe to be threaded, immediately in advance of the cutting chasers, a more accurate thread may be cut upon the pipe, since there is no tendency toward any lateral movement of the die stock in the hands of the operator. It is well-known in the art of pipe cutting that, the operator depends entirely upon his skill in starting the cutting chasers on the pipe so that a proper thread may be cut thereon and since the common pipe centering devices now in use are located some distance in front of the cutting chasers, a maximum amount of lateral movement is allowed the die head at the end of a pipe.

The construction and location of the bushings with respect to the cutting chasers reduces to a minimum the lateral movement of the cutting chasers at the end of the pipe to be threaded.

It is obvious that various changes may be resorted to in the form, construction and ar-

5 rangement of the several parts without departing from the spirit and scope of my invention, and hence I do not intend to be limited to the details herein shown and described except as they may be specifically included in the claims.

What I claim is:

10 1. The combination with a die stock, of a centering device located in close proximity to and immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings provided with laterally disposed flanges and recesses arranged to be countersunk in one another.

15 2. The combination with a die stock, of a centering device located in close proximity to and immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings, one of said bushings being removably fixed in said stock and the others provided with laterally disposed flanges and recesses arranged to be countersunk in one another and in said removably fixed bushing.

25 3. The combination with a die stock having a leader screw, of a centering device carried thereby located in close proximity to and immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings provided with laterally disposed flanges and recesses arranged to be countersunk in one another.

30 4. The combination with a die stock having a leader screw, of a centering device carried thereby located in close proximity to and immediately in advance of the cutting chasers, said device comprising a plurality of removable bushings, one of said bushings being removably fixed in said leader screw and the others provided with laterally disposed flanges and recesses arranged to be countersunk in one another and in said removably fixed bushing.

40 In testimony that I claim the foregoing as my invention, I have signed my name this 19th day of August, 1920.

JOSEPH KONIGSBERG.