

J. J. YOUNG.
DIE STARTER.
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1,026,194.

Patented May 14, 1912.

Fig. 1.

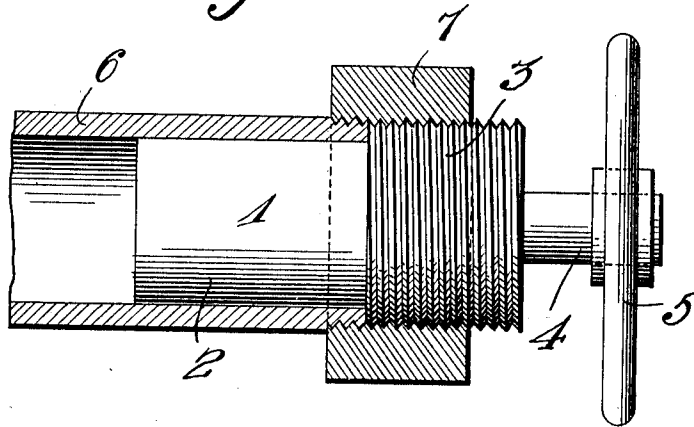
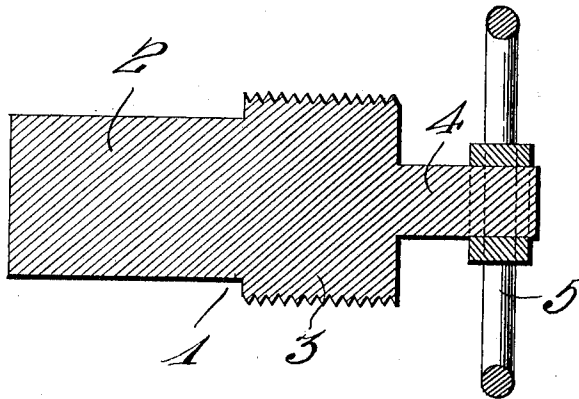


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN J. YOUNG, OF DENVER, COLORADO.

DIE-STARTER.

1,026,194.

Specification of Letters Patent.

Patented May 14, 1912.

Original application filed April 27, 1910, Serial No. 557,894. Divided and this application filed September 8, 1910. Serial No. 580,955.

To all whom it may concern:

Be it known that I, JOHN J. YOUNG, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Die-Starters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in die starters.

One object of the invention is to provide a device of this character by means of which a die may be readily engaged with the end of a pipe and started in its operation of cutting a thread on the latter with or without the use of a stock.

Another object is to provide a starter of this character which when engaged with the end of a pipe is adapted to be held by hand while the die is started on the pipe.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a vertical longitudinal sectional view of a pipe showing the application of my improved starter and the manner in which a die is started in the operation of cutting the pipe; Fig. 2 is a central longitudinal sectional view of the starter removed from the pipe.

Referring more particularly to the drawing 1 denotes my improved die starter comprising a solid body 1 which is cylindrical in shape and has a reduced smooth inner portion 2 having a diameter slightly less than the diameter of the pipe with which the same is to be engaged, and a threaded outer portion 3 having a diameter corresponding to the outside diameter of the pipe. On the outer end of the enlarged threaded portion of the body is formed a centrally disposed shank 4 on which is secured in any suitable manner a stop handle 5 by means of which the starter is held in position in the end of the pipe.

In the operation of the starter the reduced cylindrical end 2 thereof is inserted into the end of the pipe to be threaded until the

inner end of the threaded portion 3 comes into engagement with the end of the pipe after which and while the starter is firmly held by the handle 5 the die 6 which has been previously screwed onto the threaded portion 3 of the starter is screwed off from the same and onto the end of the pipe 6 thus cutting the threads on the outer surface thereof. In thus screwing the die off from the threaded portion 3 of the starter and onto the pipe said die may be turned by a stock, wrench or any suitable tool. After the first few threads have been thus cut by the die the starter may be turned in a reverse direction and unscrewed from the die and the cutting operation completed in the usual manner.

It will be understood that the form of starter herein shown and described is employed in connection with the threading of small sized pipes or pipes formed of comparatively soft metal, thus enabling the starter to be held in position by hand, while the die is screwed therefrom and onto the pipe.

It will clearly be observed that the handle 5 performs two functions, one for holding the tool in position during the cutting of the threads upon the pipe 6, and the other for limiting the direction of the die 7 when removed from the pipe, thus holding the said die in position upon the screw portion 3, of the tool to be further operated.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described my invention, what I claim is—

A die starter comprising a smooth reduced portion adapted to be snugly inserted into the pipe to be operated upon, an enlarged threaded outer portion having a diameter of the pipe and adapted to abut against the outer end of the latter, a die adjustably mounted upon said screw threaded portion, a reduced centrally disposed shank projecting from the enlarged threaded por-

tion, and a stop handle secured to the shank
to hold the starter in position and for limit-
ing the movement of the die in one direc-
tion, said shank being of sufficient length to
5 permit the die to be entirely removed from
the pipe when brought in contact with the
stop handle.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

JOHN J. YOUNG.

Witnesses:

DENA NELSON,
THEODORE HAAFT.

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