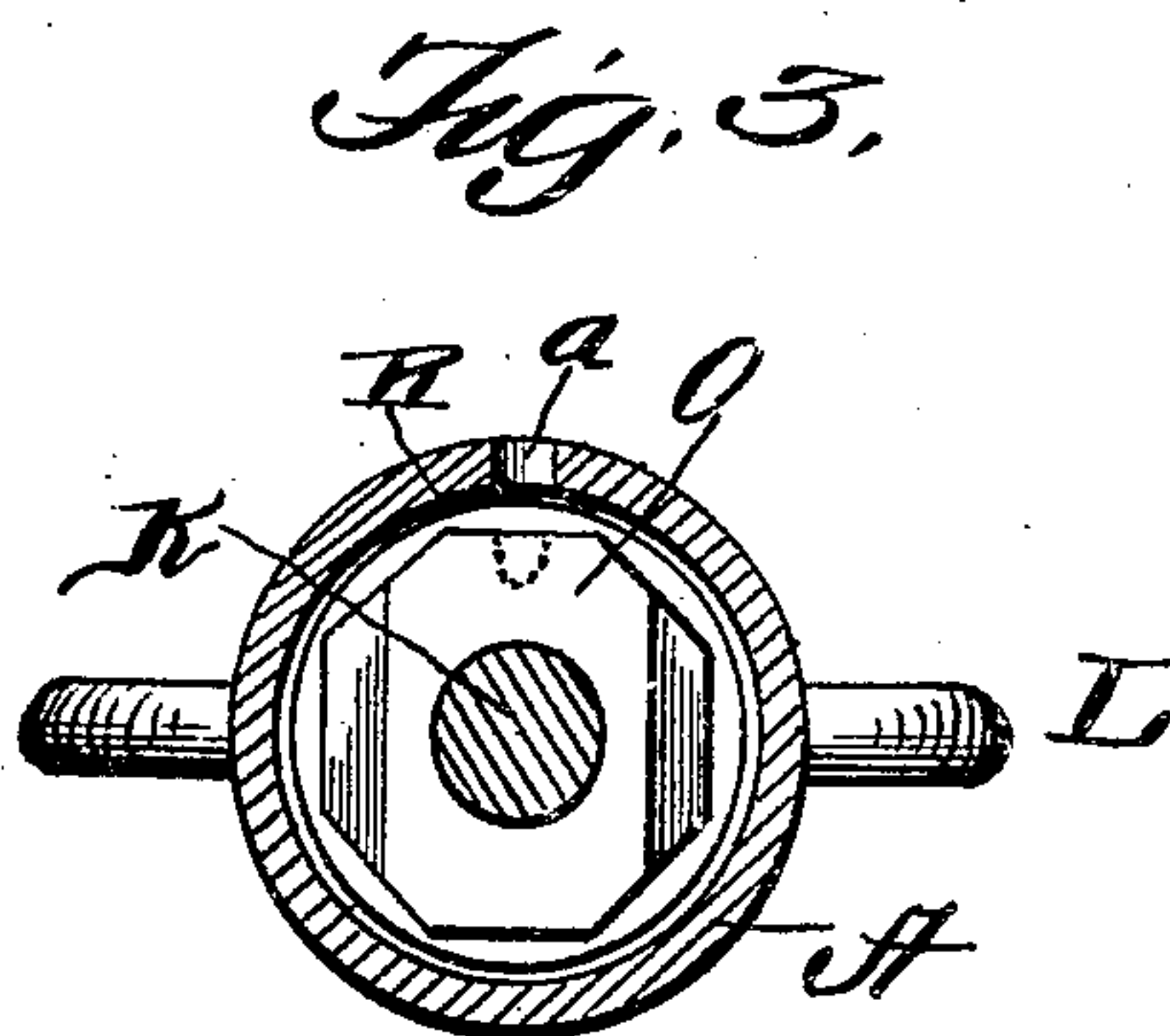
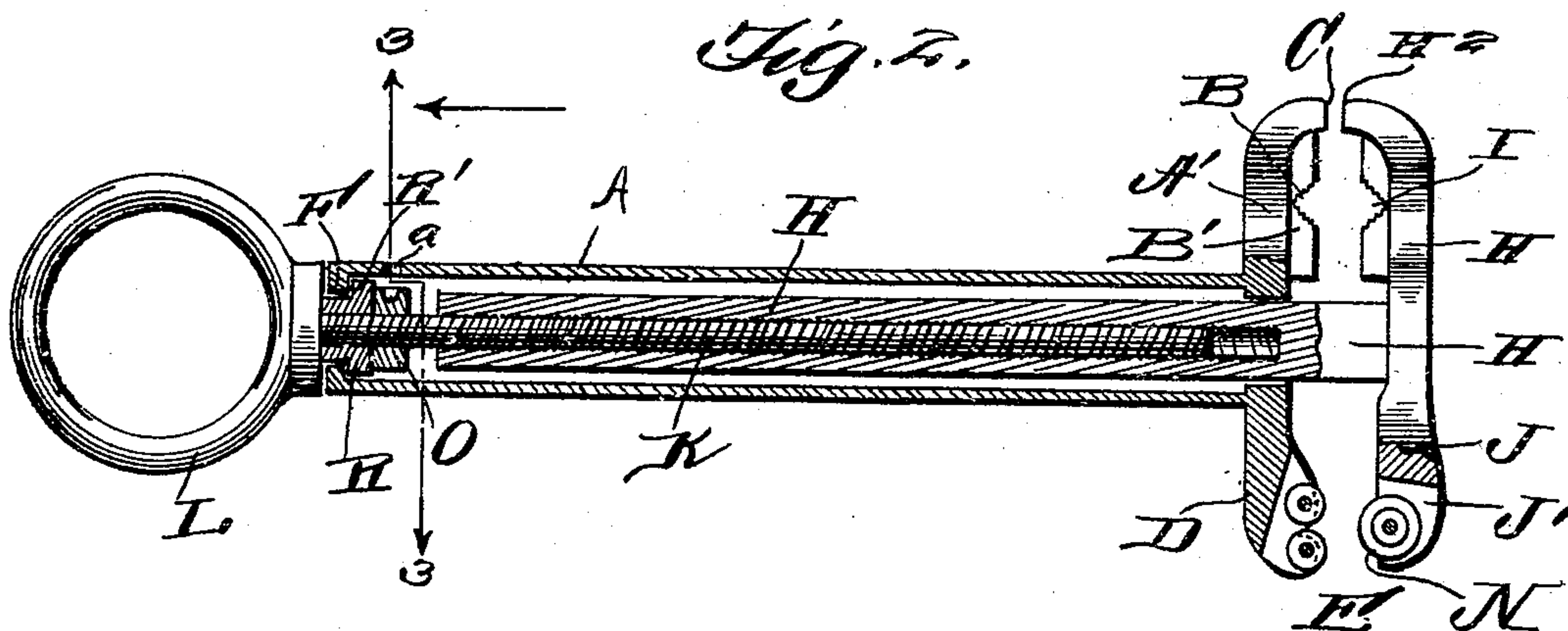
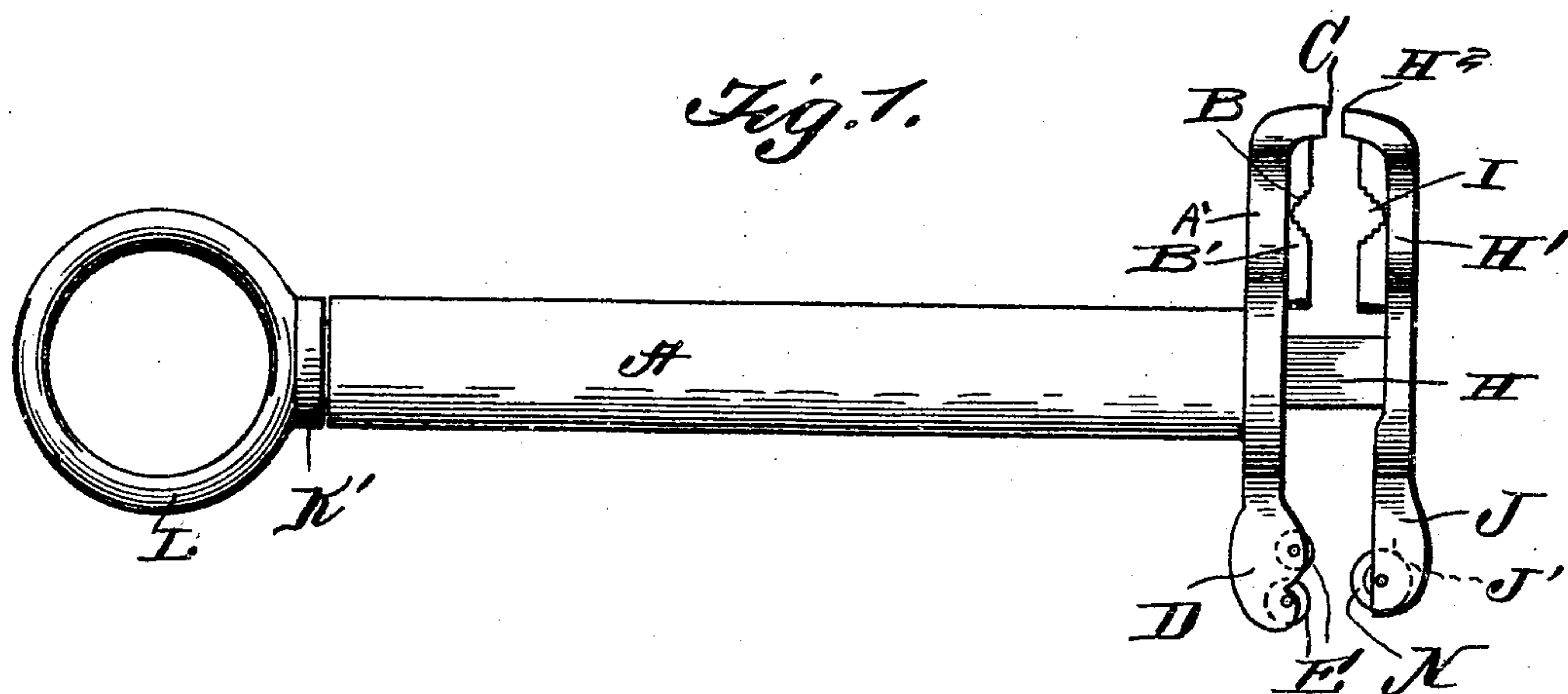


G. G. BROWN.
 COMBINED PIPE WRENCH AND CUTTER.
 APPLICATION FILED MAY 6, 1909.

946,103.

Patented Jan. 11, 1910.



Witnesses

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GARY GLANCEY BROWN, OF ROSEBURG, OREGON.

COMBINED PIPE WRENCH AND CUTTER.

946,103.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed May 6, 1909. Serial No. 494,447.

To all whom it may concern:

Be it known that I, GARY GLANCEY BROWN, a citizen of the United States, residing at Roseburg, in the county of Douglas and State of Oregon, have invented certain new and useful Improvements in Combined Pipe Wrenches and Cutters; and I do hereby 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in combined pipe wrenches and pipe cutters and comprises a simple and efficient device of this nature having novel combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of the wrench. Fig. 2 is a longitudinal sectional view, and Fig. 3 is a cross sectional view on line 3—3 of Fig. 1.

Reference now being had to the details of the drawings by letter, A designates a cylindrical handle having a laterally projecting portion A' which is provided with an angular recess B, the inclined edges of which are serrated, forming a pipe wrench jaw B', and the end of said projection beyond the jaw B' forms a vise jaw C. A second lateral projection, designated by letter D and in alinement with the projection A', is recessed out upon its inner edge and has journaled in said recess two anti-friction rollers E. Said cylindrical shank portion A has at its rear end an annular flange F and is apertured at *a* for a purpose which will be hereinafter described.

Mounted to have a longitudinal movement within the shank portion A is an angular hollow shank portion H, the bore of which is cylindrical in outline and threaded for the reception of the screw K having a shoulder K' and terminating in a ring or handle L. Said shank H passes through a similarly outlined opening in the jaw end of the shank A and thereby prevents the jaw of the wrench from turning independently one of the other. Said shank H has a later-

ally projecting portion H' which is similar to the projection A' and is provided with a recess I, the inclined edges of which are serrated and cooperate with the similarly formed serrations upon the projection A' to grip and hold a pipe, and the end of the projections H' terminate in a vise jaw H² which cooperates with the jaw C. A projection J in alinement with the projection H' provided with a slot J' in its end and a pipe cutting wheel N is pivotally mounted in the walls of said slot and is mounted midway between the two anti-friction wheels which are journaled upon the projection D, said wheels and cutter forming means for severing the pipe as it is gripped between the rollers and cutting wheel or disk when the wrench or the pipe is turned when thus gripping the pipe.

It will be noted that the inner edges of the projections A' and H' are parallel to each other and form means whereby the wrench may be utilized upon nuts or other objects which are square, while the vise jaws project slightly over said inner flat faces of the projection.

Mounted upon the screw K are the two nuts O and R, the former of which serves as a lock nut while the latter is flanged, as at R', and engages behind the annular flange F at the end of the shank A, while the shank portion of the nut R extends through the opening in the end of the shank A and is flush with the outer end thereof.

In adjusting the parts together, the shank J is inserted within the shank A and the screw K inserted through the aperture in the end of the shank A and passed into the bore of the shank H engaging the threads thereof. The nut R' serves as a swivel to hold the screw stationary as it rotates, while the nut O serves as a jam nut to hold the nut R' in place. In the event of it being desired to remove the screw from the shank H, an instrument may be inserted in the aperture *a* and made to engage an indenture in the nut O and cause the same to remain stationary while the screw is turned, thus allowing the screw to be readily unscrewed from the shank H.

By the provision of a wrench made as shown and described, it will be noted that the two shanks A and H will inclose the screw and the operative parts thereon, protecting the same and preventing dirt and foreign matter coming in contact with the

threads of the screw, and a convenient combination wrench for use in cutting and gripping pipes is afforded as well as a tool which may be utilized as a nut wrench and also
5 providing vise-like jaws.

What I claim to be new is:—

A wrench comprising two heads, one of which is provided with a hollow cylindrical handle, said head having a central opening
10 therethrough leading into the interior of said hollow cylindrical handle, a shank to the other head provided with a threaded opening, a screw fitting the threads of said opening and having a ring at its outer end,
15 a threaded shouldered nut upon said screw,

means for holding said nut from longitudinal movement upon the screw, the end of said cylindrical handle having an inwardly turned flange adapted to engage the shoulder formed upon said nut, the inner faces of
20 said heads having flanges which are recessed forming jaws, and corresponding ends of the heads being inwardly turned forming vise jaws, as set forth.

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

GARY GLANCEY BROWN.

Witnesses:

C. W. BRADFORD,
E. L. CANNON.