No. 819,428. PATENTED MAY 1, 1906.

F. A. HEADSON.

PIPE WRENCH.

APPLICATION FILED MAR. 2, 1905.

Fig. 1.

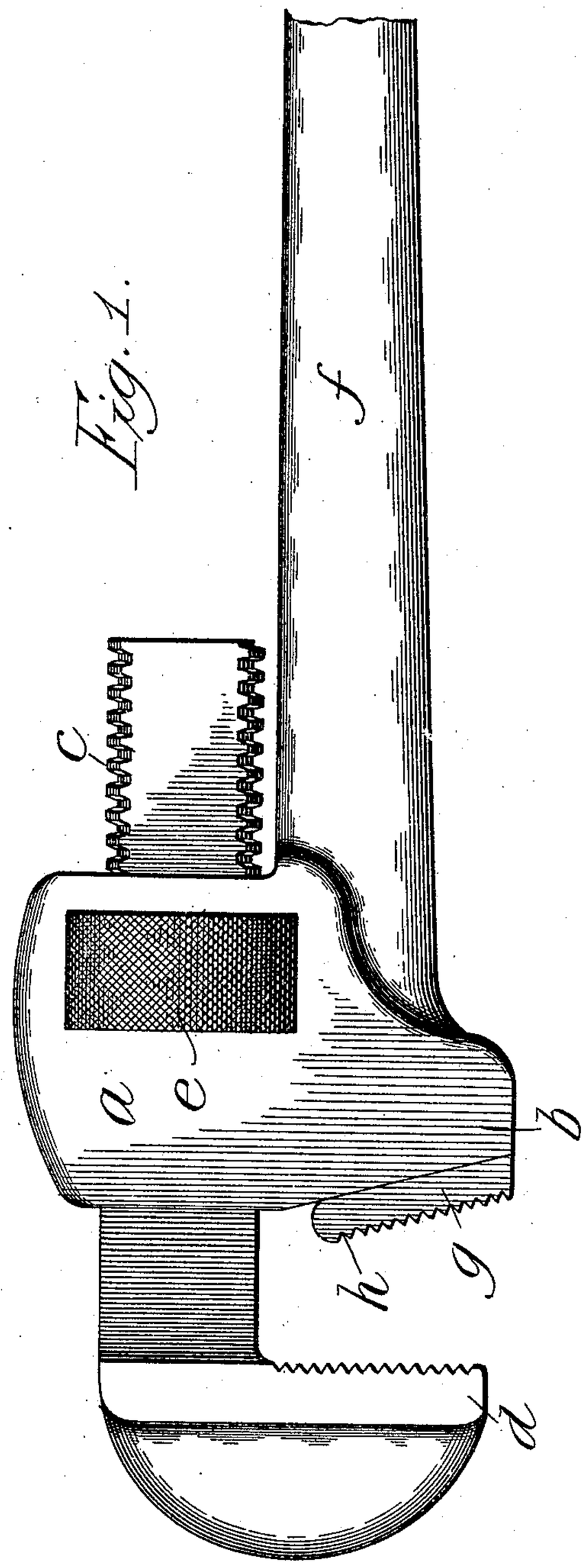


Fig. 3.

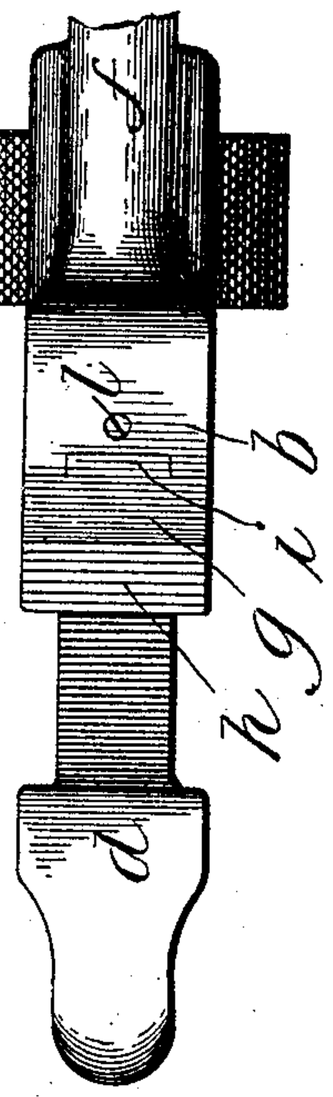
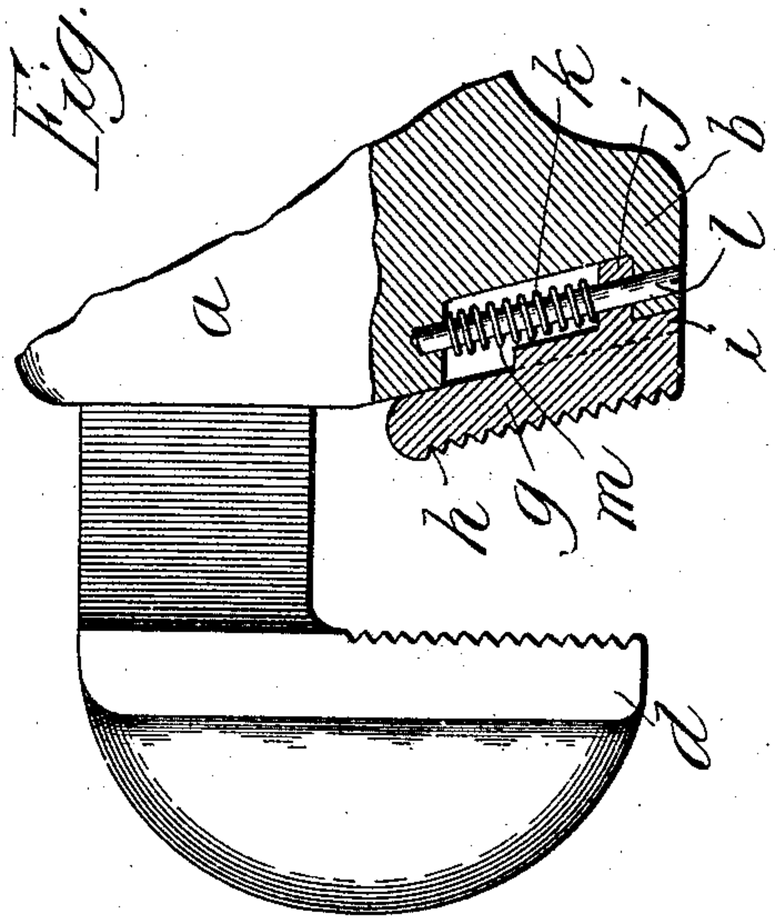


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

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PIPE-WRENCH.

No. 819,428. Specification of Letters Patent. Patented May 1, 1906.

Application filed March 2, 1905. Serial No. 248,131.

To all whom it may concern:

Be it known that I, FRANK A. HEADSON, a citizen of the United States, residing at La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a specification.

The invention relates principally to that class of pipe-wrenches provided with relatively fixed and movable jaws, and particularly to the construction and arrangement of the jaw mechanism, as will more fully hereinafter appear.

The principal object of the invention is to provide a simple, economical, and efficient pipe-wrench having fixed and movable jaws, with a transversely-movable gripping-plate attached to one of said jaws.

Other and further objects of the invention will appear from an examination of the drawings and the following description and claim.

The invention consists in the features, combinations, and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a pipe-wrench as it appears when constructed in accordance with these improvements; Fig. 2, a detail elevation of the same, partly in section; and Fig. 3, a plan view of a portion of the pipe-wrench looking at it from below and at the left-hand side of Fig. 1.

In constructing a pipe-wrench in accordance with these improvements I provide a body portion *a*, having what I prefer to term a "fixed jaw" *b* attached thereto and forming an integral part thereof. Slidably mounted in this body portion is a movable jaw, L-shaped when viewed in side elevation and provided with a threaded-shank portion *c* and a right-angular jaw portion *d* arranged opposite the fixed jaw of the body portion. The body portion is provided with a ring-nut *e*, loosely mounted in a perforation therein, so that when it is rotated in one direction or the other the movable jaw is moved toward or away from the fixed jaw, all of which is well known and understood by those skilled in the art. The body portion is further provided with a lever-handle *f*, of the desired size, shape, and strength to perform the necessary working operations. In this art it is well known that on account of the rigidity of the fixed jaw in operating on some kinds of pipe, the pipe is liable to be bent or otherwise injured. In order to prevent such a contingency, as well as to assist in more firmly gripping the pipe to be operated, I provide the fixed jaw with a transversely-movable gripping-plate *g*, the gripping-surface of which is serrated, as at *h*. This gripping-plate, as above suggested, is movable transversely—that is, toward or away from the shank of the movable-jaw portion. It is desirable that this gripping-plate be held yieldingly at its outer limit of motion, as well as held in place during the sliding movements. In order so to do, it is provided with a tongue portion *i*, engaging a transverse groove in the face of the fixed jaw, and with an integral lug *j*, arranged in a recess *k*. This lug is perforated, so as to be engaged by a holding-pin *l*. A helically-coiled spring *m* is provided, wound around the holding-pin *l* and inserted between the inner surface of the lug *j* and the body portion of the fixed jaw, all of which acts to hold the transversely-movable gripping-plate in position and when free from extraneous force permits its return to its outer limit of motion.

I claim—

In a pipe-wrench of the class described, the combination of a body portion provided with a fixed jaw having an inclined face with a groove or recess therein, a movable jaw slidingly mounted in the body portion and having a threaded shank and a right-angular jaw portion arranged opposite the fixed jaw portion, a ring-nut loosely mounted in the body portion engaging the threaded shank of the movable jaw to operate the same, a lever-handle attached to said body portion, a transversely-movable gripping-plate provided with a tongue portion and an integral perforated lug slidingly mounted in the groove and recess of the fixed jaw, a holding-pin passed through the perforated lug of the gripping-plate and the recess of the fixed jaw, and a helically-coiled spring surrounding said holding-pin and interposed between the lug of the gripping-plate and the fixed jaw to yieldingly hold said gripping-plate at its outer limit of motion, substantially as described.

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Witnesses:

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