

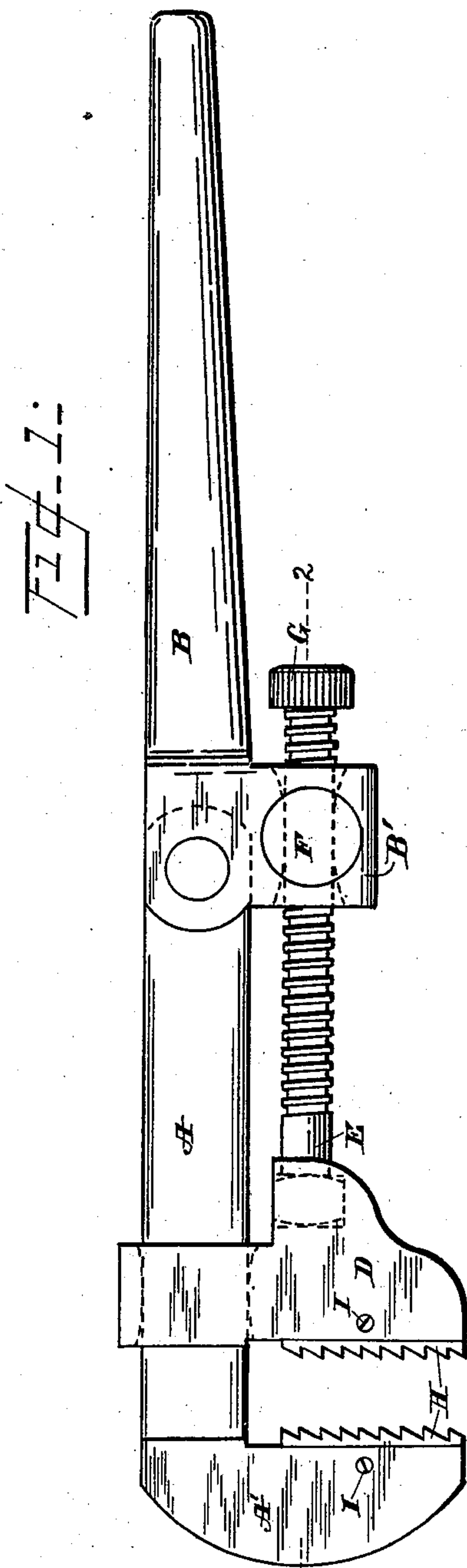
No. 692,709.

Patented Feb. 4, 1902.

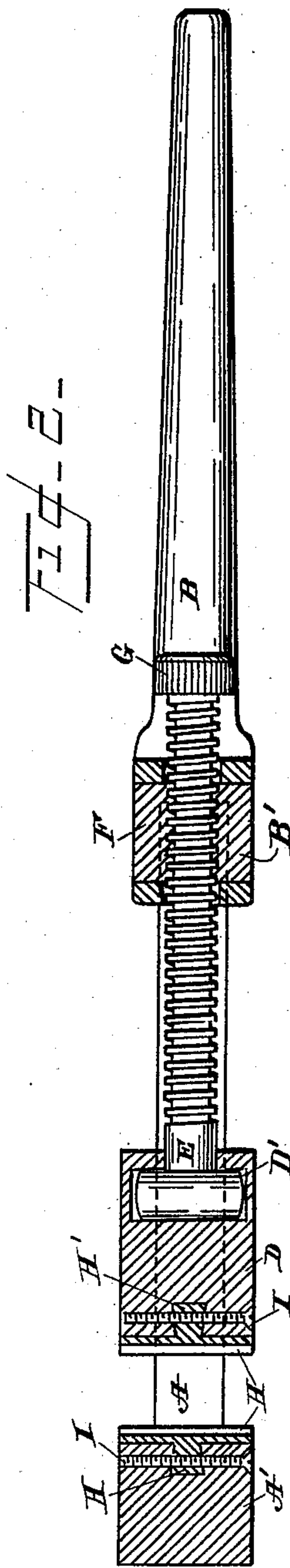
G. W. PRICE.
WRENCH.

(Application filed June 17, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. PRICE, OF LOS ANGELES, CALIFORNIA, ASSIGNOR OF ONE-HALF TO G. E. HARPHAM, OF LOS ANGELES, CALIFORNIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 692,709, dated February 4, 1902.

Application filed June 17, 1901. Serial No. 64,936. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PRICE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to a wrench which may be used either on a pipe or on a nut; and the object is to provide a wrench which is easily adjusted to fit different-sized pipes or nuts and which has a great holding power. I accomplish this object by the wrench described herein and illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my wrench. Fig. 2 is a section on the line 2 2 of Fig. 1, the adjusting-screw being shown in elevation.

In the drawings, A is the main bar, having the integral head or fixed jaw A' and being pivoted to the handle B. Slidingly mounted on the main bar intermediate the fixed jaw and the main handle is the sliding jaw D, having therein a recess D' for the reception of the head of adjusting-screw E, which head is slightly oval, so that the head may have a slight working motion in the recess. The top and bottom of the opening in the sliding jaw, through which the main bar passes, is slightly curved in opposite directions, as shown in dotted lines in Fig. 1, so that the sliding jaw may have a slight rocking motion thereon. The adjusting-screw passes in threaded contact through the cylinder F, revolubly mounted in arm B' of the handle. The opening through the arm of the handle for the passage of the adjusting-screw is so formed that the screw may have a slight oscillating movement therein. (Shown in dotted lines in Fig. 1.) A thumb-piece G on the end of the adjusting-screw provides means to conveniently rotate the same to adjust the sliding jaw. The fixed and sliding jaws may be provided with removable serrated jaw-facing plates H, which are provided on the back sides thereof with dovetail projections H', which fit into corresponding dovetail grooves in the jaws and are secured therein by screws I or otherwise affixed thereto. When the wrench is to be used as a nut-wrench, the face-plate may be removed.

It will be observed that a medium-sized

wrench may be used as a pipe-wrench on many sizes of pipe or nuts, and owing to the power imparted to the sliding jaw by reason of the leverage in having the handle pivoted to the main bar the more force that is put on the handle the tighter the jaws will be caused to grip the pipe, and that the opposite movement of the handle will cause the jaws to promptly loose their hold on the pipe or the nut.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A wrench comprising a main bar having a fixed jaw and pivoted to a handle; a sliding jaw on said main bar, having a recess therein for the reception of the head of an adjusting-screw; the handle having a projecting arm; a cylinder having a transverse screw-threaded hole extending therethrough revolubly mounted in said arm; an adjusting-screw passing in threaded contact through said cylinder and having a head adapted to fit in the recess in the sliding jaw.

2. A wrench having a handle pivoted to the main bar carrying a fixed jaw, and the handle provided with a projecting arm; a cylinder in said arm, having a transverse internally-threaded hole extending therethrough; an adjusting-screw in said cylinder; a sliding jaw on the main bar, and being connected with and adapted to be moved by the adjusting-screw.

3. The herein-described wrench, comprising the main bar A, having fixed jaw A' integral therewith; the handle B having projecting arm B', the said handle being pivoted to the main bar; cylinder F in said arm, having an internally-threaded hole extending transversely therethrough; an adjusting-screw E in said cylinder; and the sliding jaw D on the main bar; the said jaw being operatively connected with the adjusting-screw, substantially as herein shown and described.

In witness that I claim the foregoing I have hereunto subscribed my name this 10th day of June, 1901.

GEO. W. PRICE.

Witnesses:

G. E. HARPHAM,
MATTIE MCGINNIS.