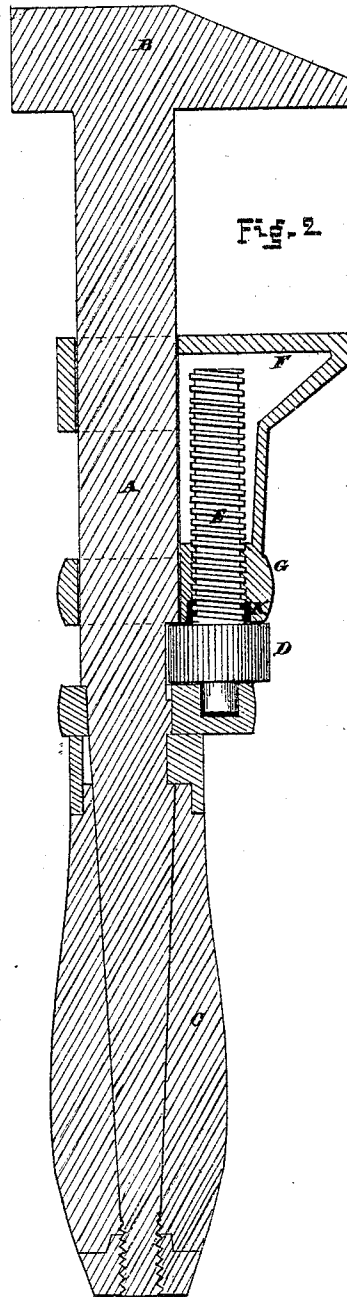
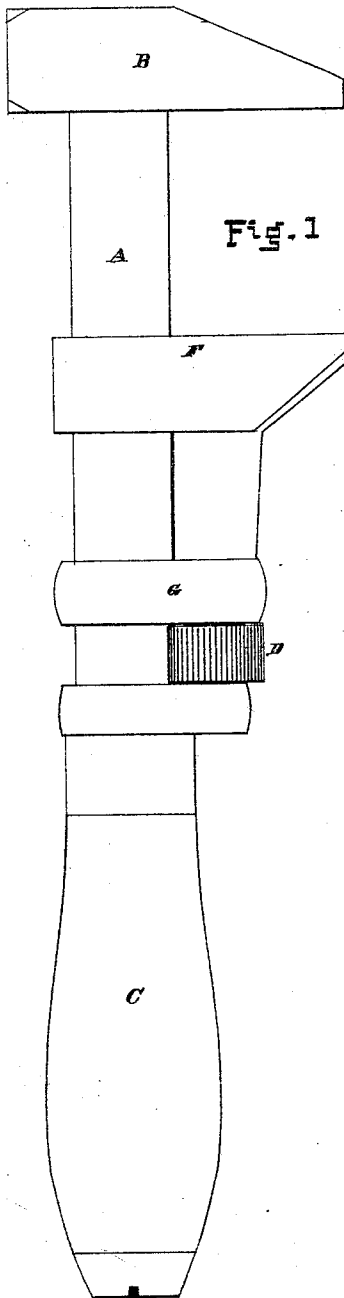


A. G. COES.
Improvement in Wrenches.

No. 114,505.

Patented May 2, 1871.



Witnesses

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IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **114,505**, dated May 2, 1871.

To all whom it may concern:

Be it known that I, AURY G. COES, of the city and county of Worcester, and Commonwealth of Massachusetts, have made certain new and useful Improvements in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification, in which—

Figure 1 represents a side view of my improved wrench, and Fig. 2 represents a central section of the same.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists in forming the rear portion of the movable jaw with a counterbore around the screw-opening, as and for the purposes hereafter described.

In the drawing, the part marked A represents the wrench-bar. B indicates the head. C indicates the handle; D, the rosette, and E the screw, which parts may be made in any of the well-known forms.

F indicates the movable jaw in the rear part, G, which works the screw E. The opening in the rear part, G, into which the screw E passes, is enlarged or counterbored for a short distance from the outside, as shown at K, Fig. 2, so as to permit of the rear part, G, of the jaw F being run back against the rosette D, whereby the wrench is enabled to receive a larger-sized nut than it otherwise would.

The counterbore K prevents the rear part,

G, from binding or becoming set upon the imperfectly-cut portion of the screw-thread next to the rosette D—a thing which is of frequent occurrence in the ordinary wrenches, and a source of annoyance and vexation to the operator.

It will be observed that the rear part, G, is cast solid for a greater distance than in the ordinary wrenches, so that the counterbore K does not weaken the hold of the screw-thread upon the thread of the jaw. Then, again, the base of the screw E is left full size at its junction with the rosette D; or, if preferred, it may be made with a rounded corner, whereby additional strength may be obtained at that portion of the screw-rod which is subjected to the greatest strain.

Another advantage resulting from my improvement is, that there is less liability of stripping the threads in cutting the screws, caused by running the tool against the rosette, since, as before stated, the base of the screw-rod E may be left full size without interfering with the movement of the sliding jaw.

Having described my improvement in wrenches, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

The combination, with the movable jaw F G and rosette-screw D E in a screw-wrench, of the counterbore K around the screw-opening, substantially as and for the purposes set forth.

AURY G. COES.

Witnesses:

CHAS. H. BURLEIGH,
A. E. PIERCE.