

G. C. Taft,

Wrench.

No 30,431.

Patented Oct. 16, 1860.

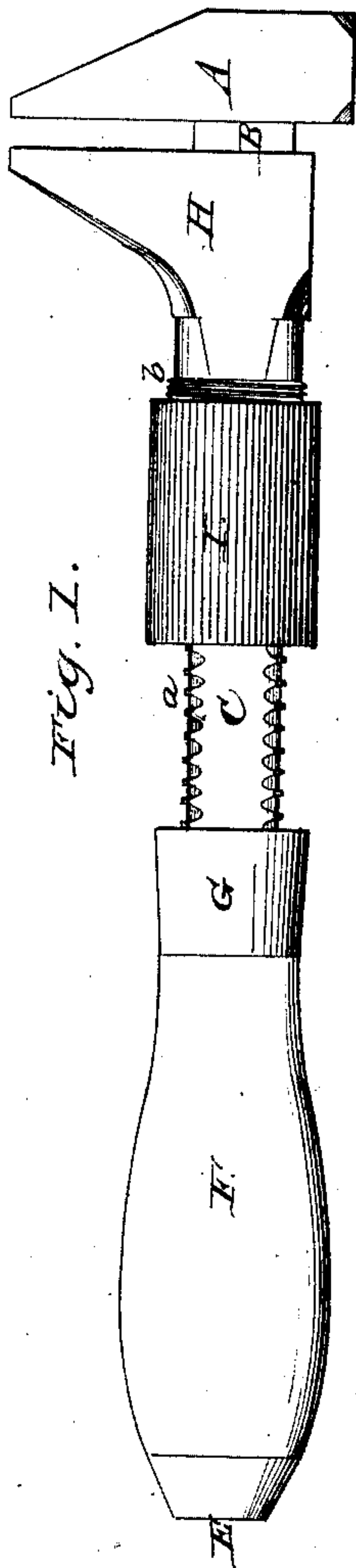


Fig. 1.

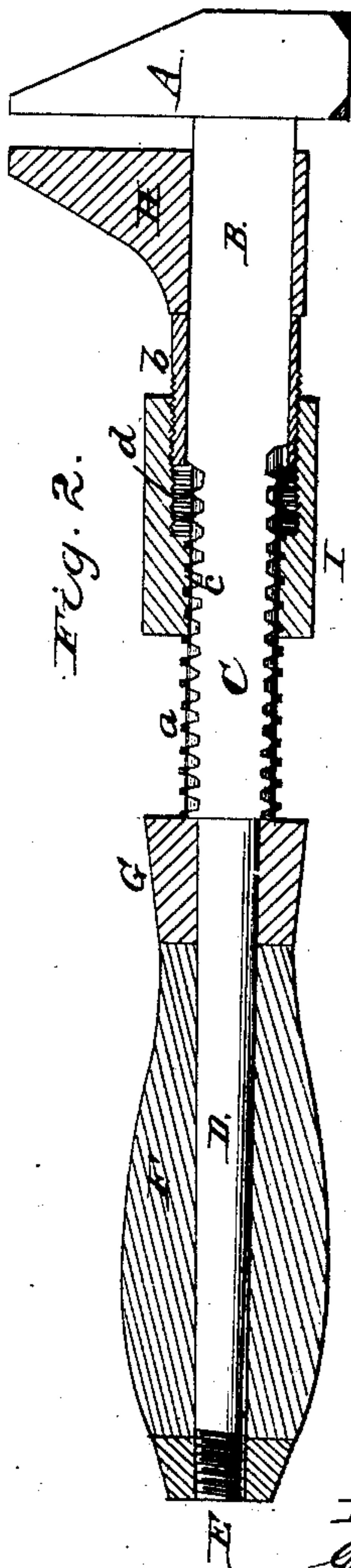


Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE C. TAFT, OF WORCESTER, MASSACHUSETTS.

SCREW-WRENCH.

Specification of Letters Patent No. 30,431, dated October 16, 1860.

To all whom it may concern:

Be it known that I, GEORGE C. TAFT, of Worcester, in the Commonwealth of Massachusetts, have invented a certain new and useful Improvement in Screw-Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a side view of a wrench with my improvements applied thereto, and Fig. 2 represents a similar view, with one-half of the handle, sliding jaw and female nut broken away to show the construction of the parts more fully.

In the drawings, A, is the stationary jaw; B, that portion of its shank upon which the movable jaw H, slides; C, that portion of the shank which is provided with the screw thread *a*, into which the female screw *c*, of the nut I, works; and D, is that portion of the shank upon which the handle F, is placed, and where it is securely held between the iron piece G, and nut E.

The front of the nut I, is turned out and provided with a female screw *d*, which works in a screw cut on the rear end of sliding jaw H. The female screws *b*, and *c*, operate in reverse directions, as well as the male screws *a*, and *b*, consequently when the nut I, is turned to the right it advances forward on

the part C, while at the same time the action of the female screw *d*, on the male screw *b*, causes the sliding jaw to advance with an accelerated velocity. When the nut I, is turned to the left, a reverse action takes place, and the sliding jaw is withdrawn.

The simplicity of construction, and great utility of a wrench constructed as above described and as shown in the drawings, will be apparent to all those skilled in the art.

The action of jaw H, is quick, while the operator can grasp the nut I, firmly in his hand for the purpose of holding the article firm between the jaws. The size of the hole in jaw H, is such as to permit it to work freely over the part C, which in this instance is smooth on its sides as indicated in the drawings.

What I claim and desire to secure by Letters Patent, is—

The combination of nut I, with its reverse screws *c*, and *d*, with screw *a*, on the shank part C, and screw *b*, on the rear part of the sliding jaw H, substantially as and for the purposes set forth.

In witness whereof I have hereunto subscribed my name.

GEO. C. TAFT.

In presence of—

JAMES H. BANCROFT,
HORACE CHENEY.