

G. C. Taft,

Wrench.

No. 40,500.

Patented Nov. 10, 1863.

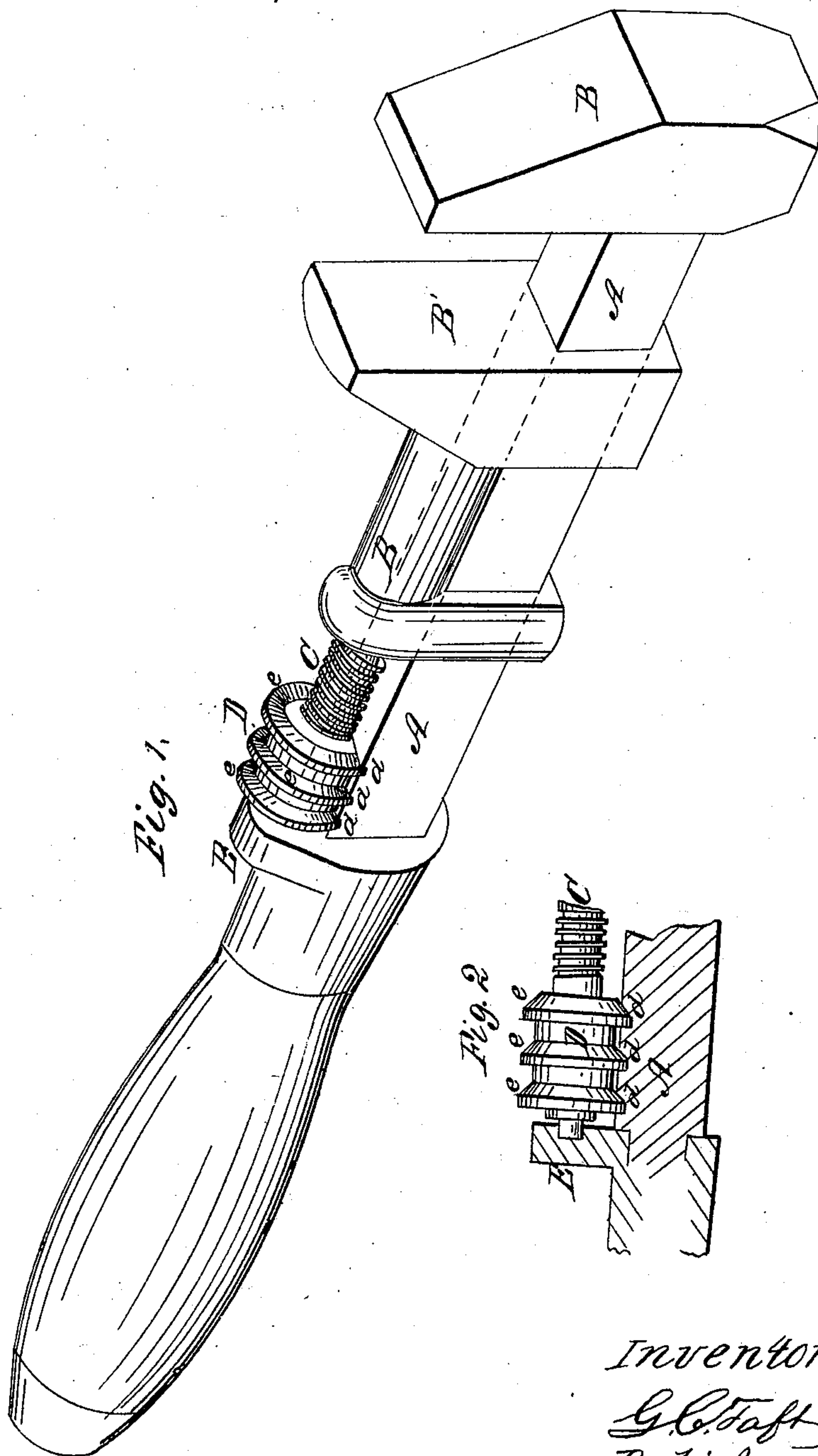


Fig. 1.

Fig. 2.

Witnesses;  
W. York & A. Lee  
A. W. D. D. D.

Inventor;  
G. C. Taft  
By his Attorney  
Thomas H. Dodge

# UNITED STATES PATENT OFFICE.

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GEORGE C. TAFT, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO THOMAS H. DODGE, OF NASHUA, NEW HAMPSHIRE.

## IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 40,590, dated November 10, 1863.

*To all whom it may concern:*

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

Figure 1 represents a perspective view of my improvement, and Fig. 2 represents a detached view of the "rosette" and parts therewith connected.

Similar letters of reference indicate like parts in the drawings.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the shank of my wrench; B, the stationary jaw, and B' the sliding jaw, through the part B'' of which the operating-screw C works. D is the rosette, formed in one piece, as shown, with the screw C, and journaled at a to ferrule E. Parallel grooves *d d d* are cut in the shank A, in which projections *e e e* of the rosette turn. The projections *e e e* are made parallel to each other, and are beveled on one side, as shown, to lessen the friction of the rosette upon turning.

The operation is as follows: To adapt the opening between the jaws to the size of the object to be clasped thereby, the operator turns the rosette to the right or left, as the size of the object will indicate, which will

turn the screw in the part B'' of the sliding jaw B', and, as to the way turned, crease or diminish the distance between the jaws, as required.

The advantage of having a rosette of this form is, that it sustains the pressure which would otherwise come on the ferrule E, which pressure is often so great as to break it off or displace it, thus rendering the whole wrench useless.

I am aware that the rosette of screw-wrenches has heretofore been constructed with a screw-thread, and I do not claim such device; but,

Having thus described my improved wrench, what I claim, and desire to secure by Letters Patent, is—

The combination of the parallel grooves *d d* in the shank A with the corresponding projections, *e e e*, on the rosette D, the same not being spiral, but running at right angles to the line of motion of the jaw, thus relieving the ferrule from all strain, while retaining the rosette in the same relative position as respects the handle of wrench, substantially as and for the purpose set forth.

In witness whereof I have hereunto subscribed my name.

GEO. C. TAFT.

In presence of—

JAMES H. BANCROFT,  
JOHN GOULDING,  
ADDISON P. BROWN,  
TIMOTHY F. TAFT.