

J. B. WEEDEN.

. Wrenches.

No. 136,797.

Patented March 11, 1873.

Fig 1.

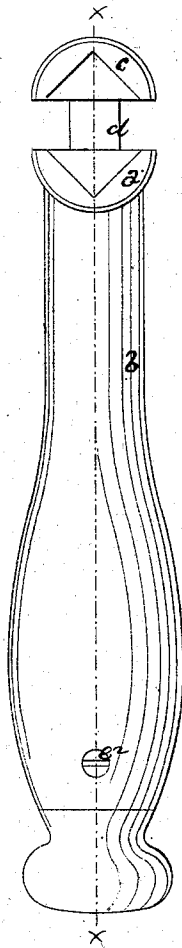
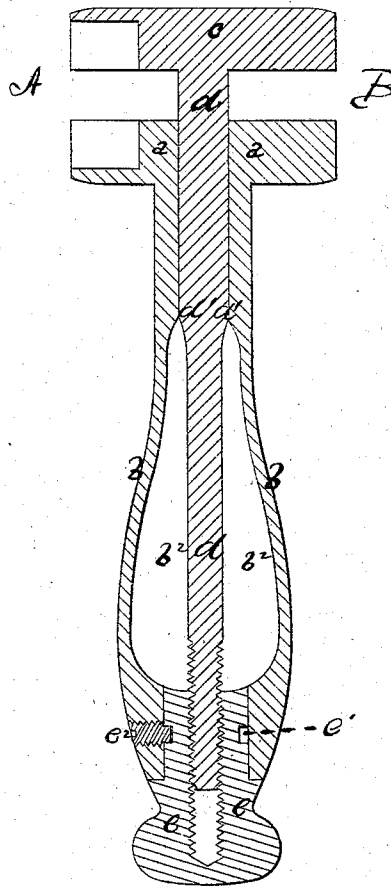


Fig 2.



Witness.
 Jim E. Steele
 John P. Hattig

Inventor
 Jas B. Weedon
 By W. E. Simon &
 Attys

UNITED STATES PATENT OFFICE.

JAMES B. WEEDEN, OF STAFFORD, CONNECTICUT, ASSIGNOR TO HIMSELF
AND MARCUS M. JOHNSON, OF SAME PLACE.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 136,797, dated March 11, 1873.

To all whom it may concern:

Be it known that I, JAMES B. WEEDEN, of Stafford, in the county of Tolland and State of Connecticut, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a side view of the wrench. Fig. 2 is a section of the same through the line *x x*.

The invention consists in so constructing the lower jaw of the wrench and the handle of the wrench that both may be made in one piece of cast metal, and in making the shank of the upper jaw to slide through the handle of the wrench, its play being given by a nut let into the lower end of the handle, which fits upon a screw-thread cut upon the end of said shank. It further consists in making a head for a wrench with two sets of jaws—one set for common purposes, and one for turning nuts exclusively.

The letter *a* indicates the lower jaw of the wrench, made in one piece with the handle *b*, which is hollow throughout the greater part of its length. The letter *c* indicates the upper jaw of the wrench, made in one piece with its

shank *d*—square down to *d'*, and from thence round—which runs down through a corresponding square slot in the vertical thickness of the jaw *a*, which square slot extends down to *d'* through the length of the hollow *d''*, and thence through the center of the nut *e*, which nut has a female screw-thread through its center, fitting upon a corresponding male thread on the end of said shank. The nut *e* has an annular groove, *e'*, into which runs the end of the set-screw *e''*, whereby the nut is held stationary, so that, when it is turned, it will cause the upper jaw to move as desired. In the ends of the jaw upon the side A are corresponding V-shaped grooves to fit upon the corners of a nut. Upon the side B the ends of the jaws are of the common construction.

I claim as my invention—

The combination of the lower jaw and handle, made in one piece with the upper jaw, and the nut fitted into the end of the handle, the whole constructed and designed to operate substantially as described, for the purpose set forth.

JAMES B. WEEDEN.

Witnesses:

FRANK E. DWIGHT,
AARON F. GREENE.