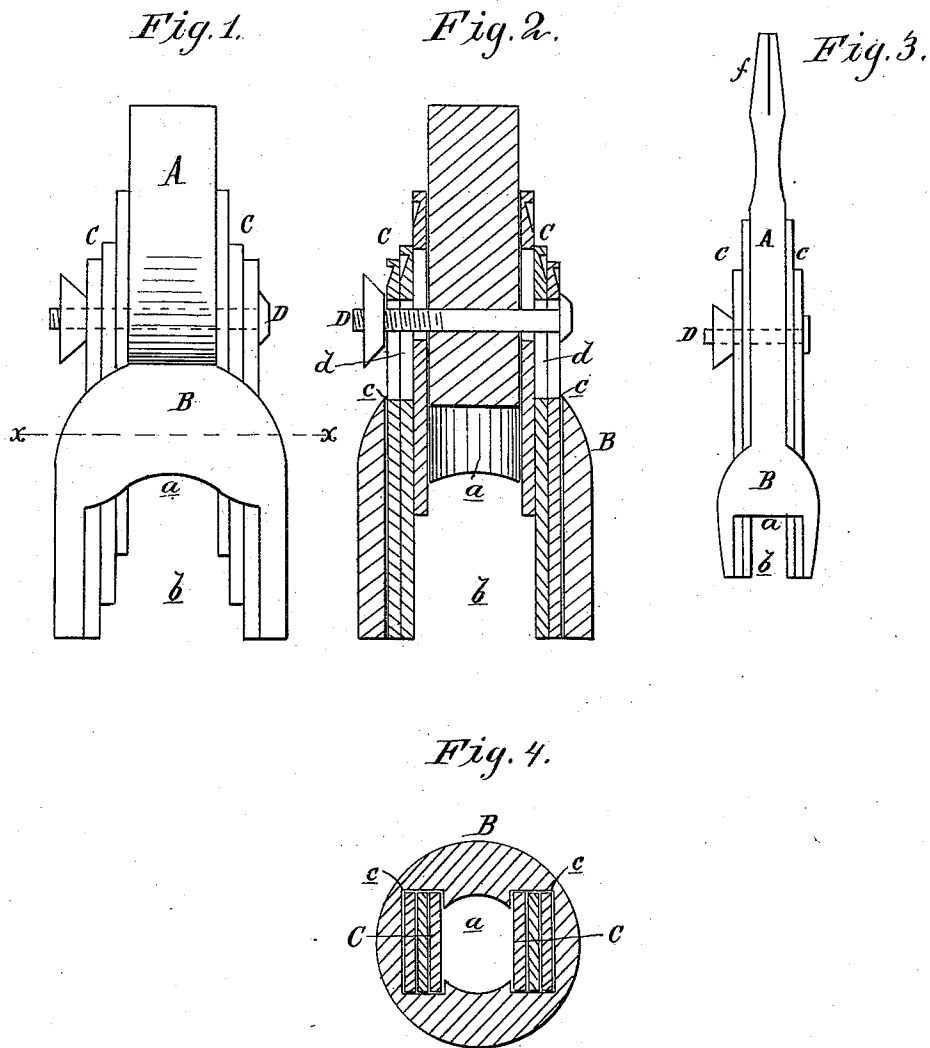


(Model.)

J. M. TOTTEN.
Wrench.

No. 236,114.

Patented Dec. 28, 1880.



WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

JAMES M. TOTTEN, OF SHARON, WISCONSIN.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 236,114, dated December 28, 1880.

Application filed May 22, 1880. (Model.)

To all whom it may concern:

Be it known that I, JAMES M. TOTTEN, of Sharon, in the county of Walworth and State of Wisconsin, have invented a new and Improved Wrench, of which the following is a specification.

The object of this invention is to provide an adjustable wrench of novel design.

Figure 1 represents a vertical front elevation of the device. Fig. 2 is a vertical sectional elevation of the same. Fig. 3 is a front elevation of a modification of the device. Fig. 4 is a cross-section on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the shank of the wrench, on the lower end of which is the socketed block B, which is made part of, or may be made separate from, the said shank. This block B is provided with a socket, *a*, that extends from the shank A downward for about half its depth, and the front and rear faces of the said block B are removed from the termination of the said socket *a* to the end of the block, leaving openings, as shown at *b*. At *c c* are mortises that extend down through the shoulders of the said block B, on either side of the shank A, into the socket *a* of said block.

C C are slotted metal plates secured to each side of the shank A by a screw-bolt and nut, D, that passes laterally through the slots *d d* of said plates C, and through said shank A, and said plates C C extend downward through the mortises *c c* into the socket *a* of the block

B, and are vertically adjustable therein at any desired point. By loosening the bolt and nut D any or all of said plates C C can be pushed down into the block B, to adapt it for fitting upon a small bolt or nut to which it may be desired to apply the wrench, while by withdrawing the plates C C from the block B, or by elevating them sufficiently, the wrench is adapted for larger bolts, nuts, &c.

In Figs. 1, 2, and 4 a wrench is shown with three adjustable plates, C C, on either side of the shank A; but fewer or more plates can be applied without departing from my invention.

In Fig. 3 is shown a modification of the above-described wrench, in which the shank A is extended, as shown at *f*, in order that it may be fitted into a brace—the other parts of the said modified wrench being similar to that already described—which may be provided with any convenient handle. All the parts of this wrench are preferably made of cast-iron or steel.

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

The combination of the shank A, having the socketed mortised block B *b* at the lower end, the cross-bolt D, having an end nut, and the slotted sliding plates C, arranged on each side of the shank, as shown and described.

JAMES M. TOTTEN.

Witnesses:

J. H. PHELPS,
GEO. ZIEGAUS.