J. M. MARTY.

Wrench.

No. 207,814. Patented Sept. 10, 1878.

Fig. 1.

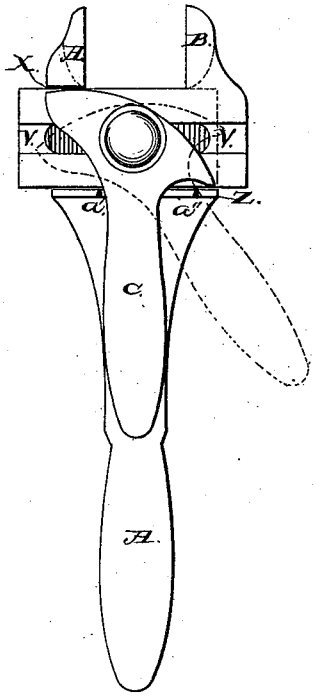


Fig. 2.

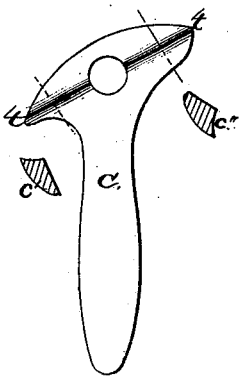


Fig. 3.

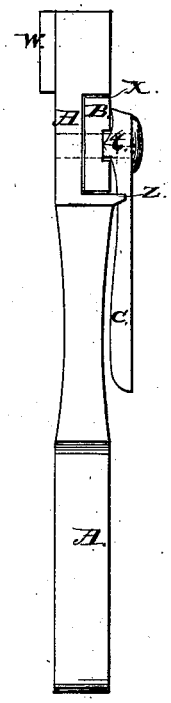


Fig. 4.

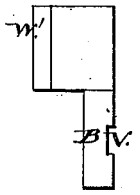
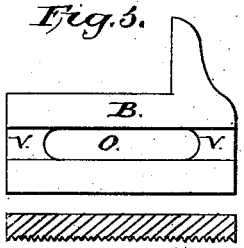


Fig. 5.



Attest:

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UNITED STATES PATENT OFFICE.

JOHN M. MARTY, OF FARIBAULT, MINNESOTA.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **207,814**, dated September 10, 1878; application filed January 9, 1878.

To all whom it may concern:

Be it known that I, J. M. MARTY, of Faribault, State of Minnesota, have invented an Improved Wrench, of which the following is a specification:

The object of my invention is to make a cheap, durable wrench, which can be set by three movements to any size from one-sixteenth of one inch up to two inches, or more in larger sizes, and can be held at any desired place, firm enough for all practical purposes, by the combination of handle A, Figures 1 and 3, with movable jaw B, Figs. 1, 3, 4, and 5, and lever C, Figs. 1, 2, and 3 of accompanying drawing, lever C having cam-like projections *t t*, Fig. 2, as also shown in cuts *c' c''* of same, Fig. 2, and also Fig. 3.

When lever C is drawn in parallel to the wrench and right over it, the projections *t t*, Fig. 2, are drawn over the jaw B on either side of the slot O, and so press the jaw B firmly and lock it on handle A at whatever distance said jaw may be put from the stationary jaw-piece of the handle A. Movable jaw B slides between shoulders *x* and *z*, Figs. 1 and 3, of handle A, the sliding surface of each, A and B, being corrugated.

If lever C is opened, (as per dotted lines in Fig. 1,) the projections or cams *t t* of said lever C are in line with the slot O through the center of jaw B and the shallow grooves V V, Figs 4 and 5, thus relieving said jaw of the pressure. Fig. 3 shows lever C in such position, the projection being in the shallow groove, and therefore jaw B loose and ready to be moved and set. The grooves V V have the same width as the slot O.

The three pieces are held together by one bolt, as shown in Figs. 1 and 3. Said bolt can be screwed tighter by means of a slot in its head and secured by a slight riveting on the other side.

For taking hold of countersunk nuts or bolt-heads, the rigidly-attached pieces W W', Figs. 3 and 4, are put on the lower side of the jaws, when desired, said projection being rounded, as shown by dotted lines in Fig. 1, to facilitate their use in small holes.

Two stops, *a' a''*, in Fig. 1, on shoulder *z* on handle A prohibit the lever from sliding too far either way.

I claim as my invention—

1. The combination of handle A, having jaw in one piece therewith, with movable jaw B, having the slotted and grooved arm, and lever C, having projections *c' c''* and a pivotal fastening-bolt passing through arm B, for the purposes and uses as set forth.

2. The combination of the handle and jaw A, having flange *z* and stops *a' a''*, and a rigid projecting jaw, W, with sliding jaw B, having a slotted arm and a projecting rigid jaw, W', and a pivoted locking-lever, all connected and operating as and for the purposes set forth.

JOHN M. MARTY.

Witnesses:

C. L. LOWELL,

S. W. CLARK.