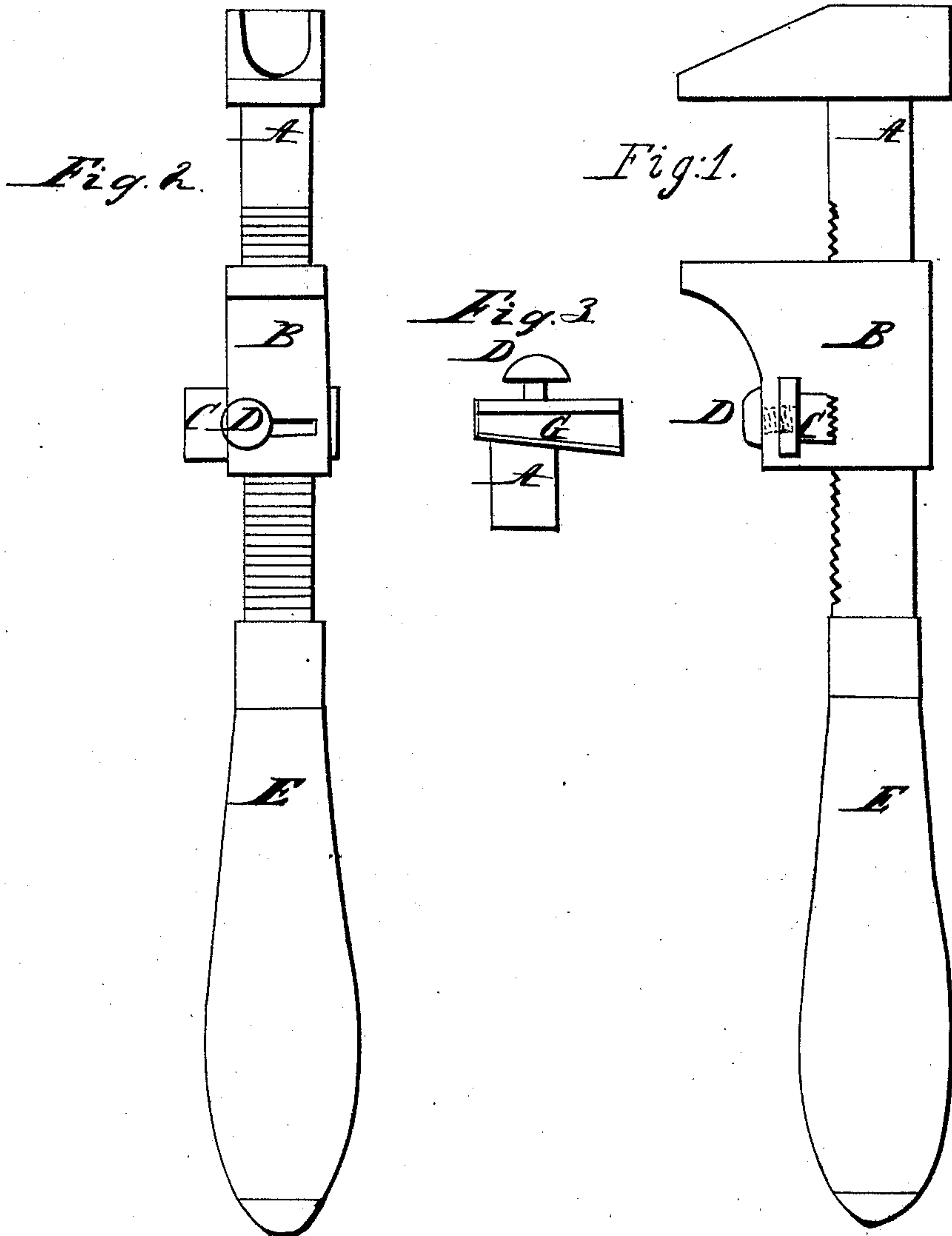


J. McKenzie,

Wrench.

N^o 20,211.

Patented May 11, 1858.



Inventor:
James McKenzie

UNITED STATES PATENT OFFICE.

JAMES McKENZIE, OF GREEN ISLAND, NEW YORK.

WRENCH.

Specification of Letters Patent No. 20,211, dated May 11, 1858.

To all whom it may concern:

Be it known that I, JAMES McKENZIE, of the village of Green Island, in the county of Albany and State of New York, have invented a new and Improved Mode of Fixing the Movable Jaws of Adjustable Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of the wrench. Fig. 2 is a front view and Fig. 3 shows the wedge as it lies across the shank to secure the movable jaw.

The same letters refer to like parts in all the figures.

The product of my invention is a new and improved mode of securing the movable jaw of an adjustable wrench very simple in construction and effective and substantial when applied to use and very easily shifted and made firm on the shank, requiring but little labor to finish, so that the wrench can be sold for less price than most wrenches in the market.

Fig. 1 is a side view of the wrench, in which A is the shank with the fixed jaw. On the inside of the shank are notches or teeth into which the wedge C is fitted, which secures the movable jaw B to the shank A. This jaw has a slot in it in which the wedge C moves freely out and in. When the jaw is to be moved the wedge is pushed out so as to clear the teeth on the shank, then placed at the distance from the fixed jaw that is required, the wedge pressed in with the thumb. If it is wished to be very firm give

the wedge a little tap on any convenient place and the metal will break sooner than move the jaw. There might be a spring inside of the jaw connected with the wedge to keep it in its place, but it is not absolutely necessary and can be either put in or kept out, according to the wish of the operator.

Fig. 2 is a front view of the wrench. The hollow in the fixed jaw is calculated to secure a more perfect casting and likewise give a chance to be better annealed or made malleable. The wedge C and screw D and the slot in which the screw traverses are shown. The screw D is to keep the wedge from falling out. It also keeps the wedge up from the teeth when shifting the jaw and is convenient to push the wedge by out or in.

Fig. 3 is a section of the shank and wedge in the position when the wedge is in.

Now my improved wrench can be distinguished from any other wrench by a toothed wedge working through a slot in the movable jaw across the shank and fitting into the teeth on the shank, thus giving perfect security to the moving jaw.

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

Fixing the movable jaw of an adjustable wrench by a toothed wedge passing through the said jaw fitting into the teeth or notches on the shank in the manner specified, so as to keep the movable jaw firm to resist all pressure that may be applied to it.

JAMES McKENZIE.

Witnesses:

JAMES REMINGTON,
AUSTIN CHILDS.