B. F. JOSLYN.

WRENCH.

No. 180,348. Patented July 25, 1876.

Fig. 1.

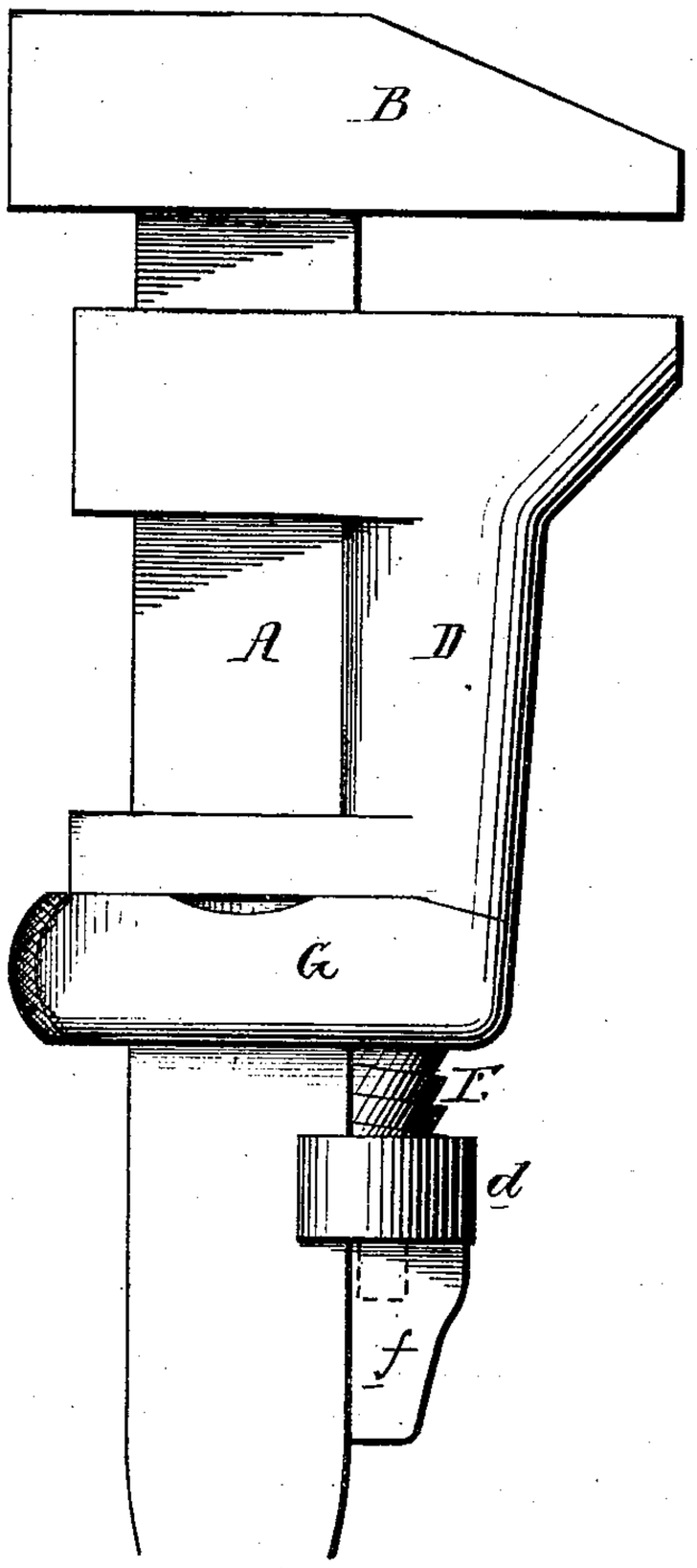


Fig. 2.

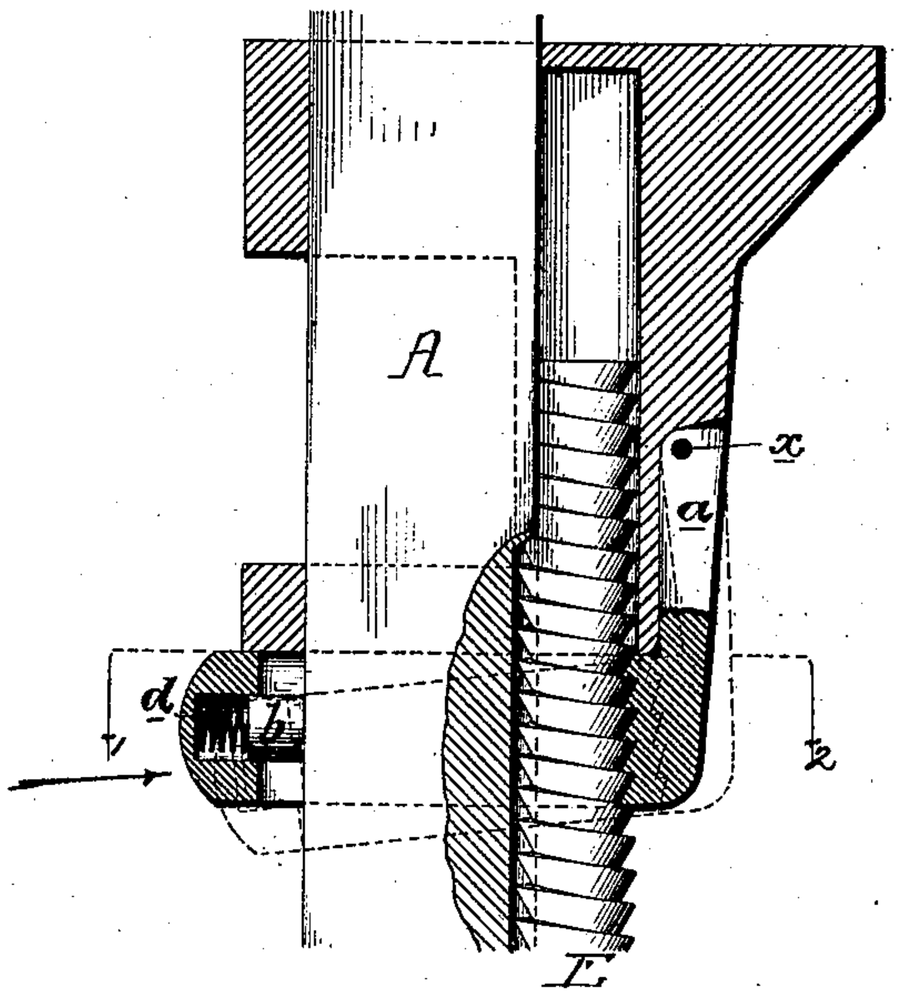
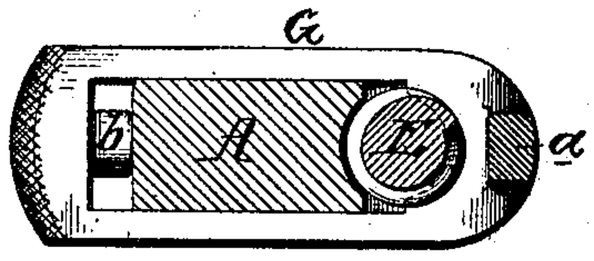


Fig. 3.



Witnesses,
Harry Howson Jr
Harry Smith

Benjamin F. Joslyn
by his Attorneys
Howson and Son

UNITED STATES PATENT OFFICE.

BENJAMIN F. JOSLYN, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO RICHARD P. BRUFF, OF NEW YORK CITY.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **180,348**, dated July 25, 1876; application filed February 28, 1876.

To all whom it may concern:

Be it known that I, BENJAMIN F. JOSLYN, of Worcester, Massachusetts, have invented an Improved Wrench, of which the following is a specification:

The object of my invention is to construct a wrench in which the adjustable jaw can be readily moved beyond the control of, or into gear with, the adjusting-screw; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a side view of my improved wrench; Fig. 2, a sectional view, and Fig. 3 a transverse section on the line 1 2.

A is the stem of the wrench; B, the fixed jaw, and D, the movable jaw. A screw, E, fits snugly in a groove in the stem A, and has the usual serrated enlargement, *d*, adapted to a recess in the said stem, and a journal adapted to a projection, *f*, secured to or forming a part of the stem. The thread of the screw E is inclined on one side, and abrupt on the other, and receives threads, or rather teeth, of a similar character in a yoke, G, which embraces the stem, as shown in Fig. 3, and a projection, *a*, fits snugly, but so as to move freely, in a recess in the movable jaw, and is pivoted to the same at *x*, a pin, *b*, and spring *d*, the latter being contained in a recess in the yoke, tending to maintain the same in the position shown in Fig. 1, where the teeth of the yoke are in gear with the thread of the screw.

By forcing the yoke in the direction of the arrow, Fig. 2, it will turn on its pivot, and its teeth will be moved out of gear with and beyond the control of the screw, and the jaw will consequently be at liberty, and can be quickly moved on the stem to any desired position; but when pressure is removed from the yoke the spring *d* will restore it to its original position, Fig. 1, and its teeth will be in gear with the thread of the screw, by manipulating which the jaw can be slowly and accurately adjusted.

I wish it to be understood that I do not desire to claim, broadly, the combination of the adjusting-screw and movable jaw of a wrench, with a movable nut adapted to said screw; but that

I claim as my invention—

The combination of the stem A of the wrench, the movable jaw D, and the spring-yoke G, pivoted to said movable jaw, and having teeth adapted to the screw E, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BENJAMIN F. JOSLYN.

Witnesses:

HARRY HOWSON, Jr.,

HARRY SMITH.