(Model.)

H. WHEELER.

WRENCH.

No. 279,896. Patented June 19, 1883.

Fig. 1.

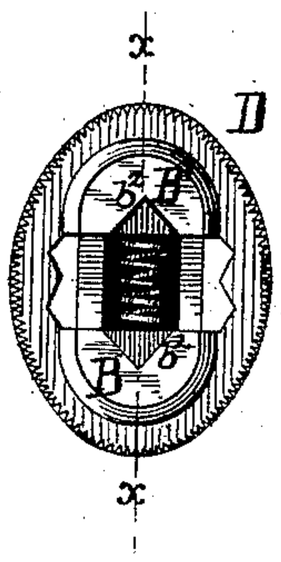


Fig. 2.

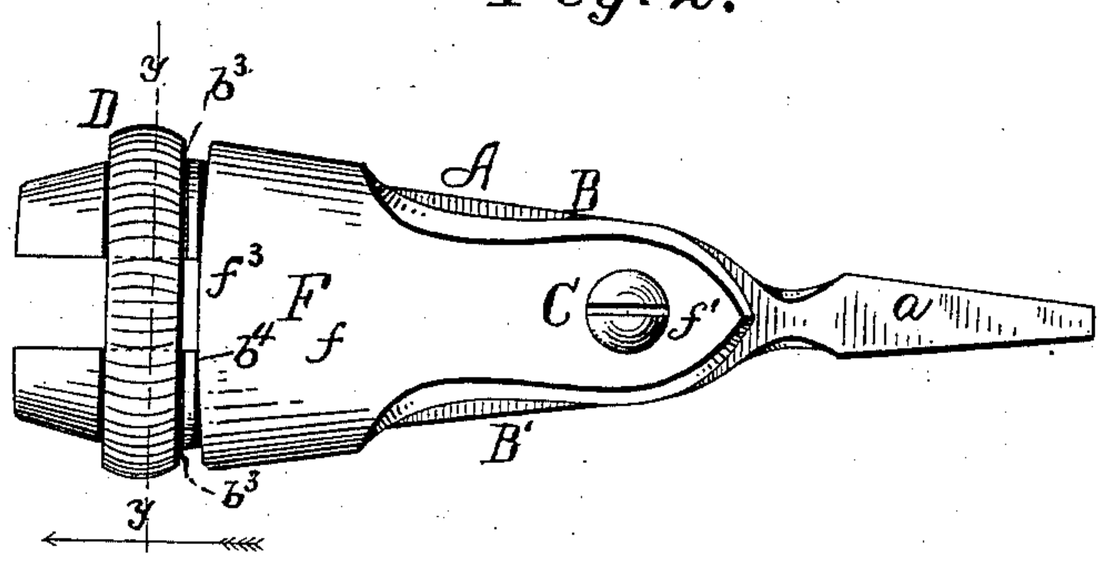


Fig. 3.

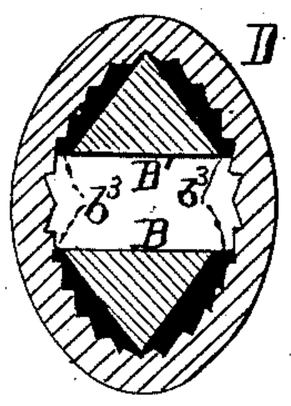


Fig. 4.

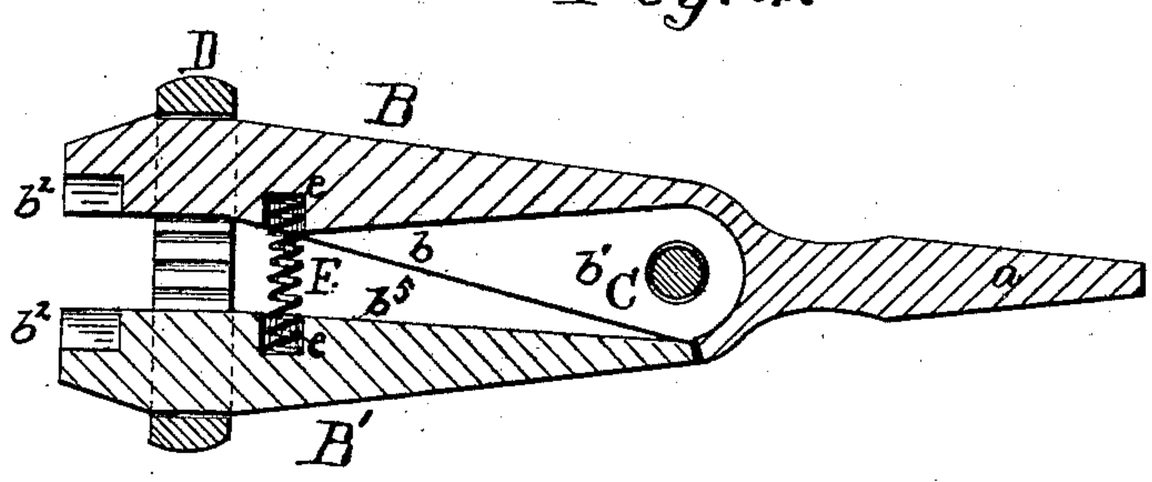
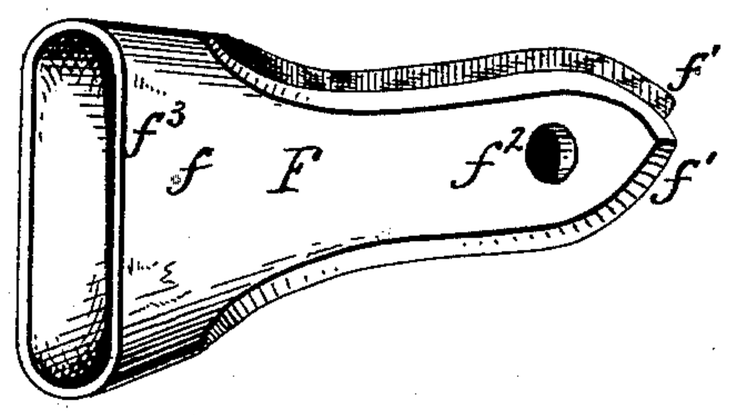


Fig. 5.



Witnesses:

Thos. Houghton.

Wm. F. Coulter

Inventor:

Henry Wheeler,

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Attys.

UNITED STATES PATENT OFFICE.

HENRY WHEELER, OF DUDENVILLE, MISSOURI.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 279,896, dated June 19, 1883.

Application filed April 4, 1883. (Model.)

To all whom it may concern:

Be it known that I, HENRY WHEELER, of Dudenville, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a front elevation. Fig. 2 is a side elevation. Fig. 3 is a vertical cross-section on line *y y*, Fig. 2. Fig. 4 is a longitudinal section on line *x x*, Fig. 1. Fig. 5 is a perspective of the shield or cover.

This invention relates to improvements in wrenches, more particularly to the kind shown in the United States Patent No. 269,902, granted to me January 2, 1883.

The present improvement consists, primarily, in a shield or cover which is secured to such wrench, and also in details of construction, all as hereinafter pointed out.

In the annexed drawings, the letter A indicates the wrench proper, consisting of the jaws B B′, the former of which is extended to form the tang *a*. The jaws B B′ are halved into each other, the side flanges, *b′*, coming together, and the edge *b* meeting the edge b^5 when the jaws are closed together. The two jaws are held by the pivot-pin C. At the head these jaws have the angular holding-recesses b^2, and back of these the exterior grooves, b^3, Figs. 2 and 3, for receiving the adjusting-ring D. Back of the line of the grooves b^3, on the inside, the jaws B B′ are provided with pockets *e e*, in which are seated the ends of the spring E. As thus constructed the wrench is operated as described in the patent already referred to, and to which reference can be had for further and obvious details. Over the wrench the shield or cover F is secured by the screw C, which holds the jaws together. This shield has the form shown in Fig. 5, having a closed head, *f*, from which extend two tongues, *f′ f′*, having the holes f^2. The front edge, f^3, of this shield is slightly curved. This shield is slipped on over the wrench from the tang end, and its curved edge rests easily against the rear edge, b^4, Fig. 2, of the head of the wrench, in which position it is secured by the screw C. This shield F is not only a cover to prevent anything from getting in and clogging the wrench, but also acts to keep the same compact and prevent strain. The jaws, only having a range within the shield, in case the ring is removed or drops off, cannot expand far enough to let the spring slip out, and as they fit the shield snugly they cannot move sidewise and strain their pivot C. By means of the pockets *e e* the jaws can be closed together without injury to the spring.

Having described my invention, what I claim is—

The wrench A, consisting of the jaws B B′, pivoted together by bolt C, in combination with the shield or cover F, secured to said bolt and surrounding the wrench, the said wrench and cover having a fixed relation, as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY WHEELER.

Witnesses:
E. C. CROW,
G. W. CROW.