

(No Model.)

H. WHEELER.

SOCKET WRENCH.

No. 269,902.

Patented Jan. 2, 1883.

Fig. 1.

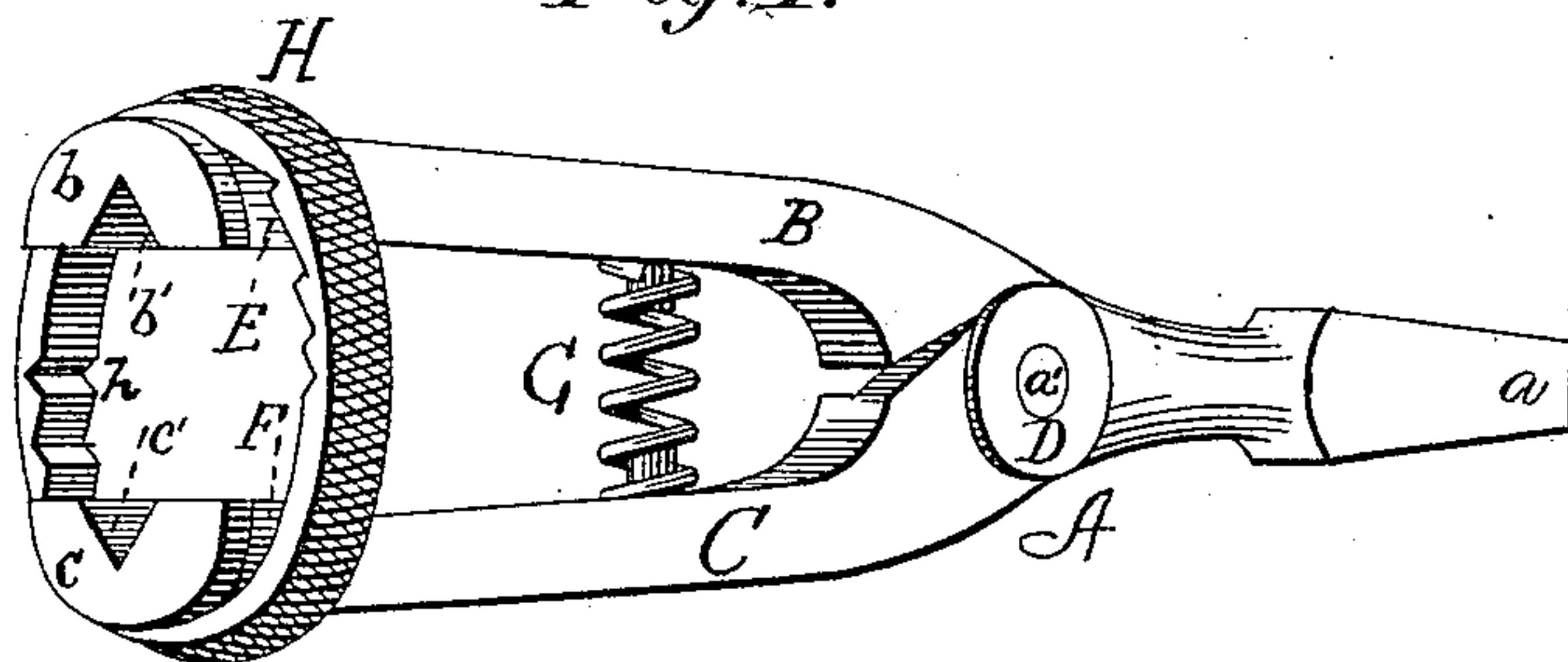


Fig. 2.

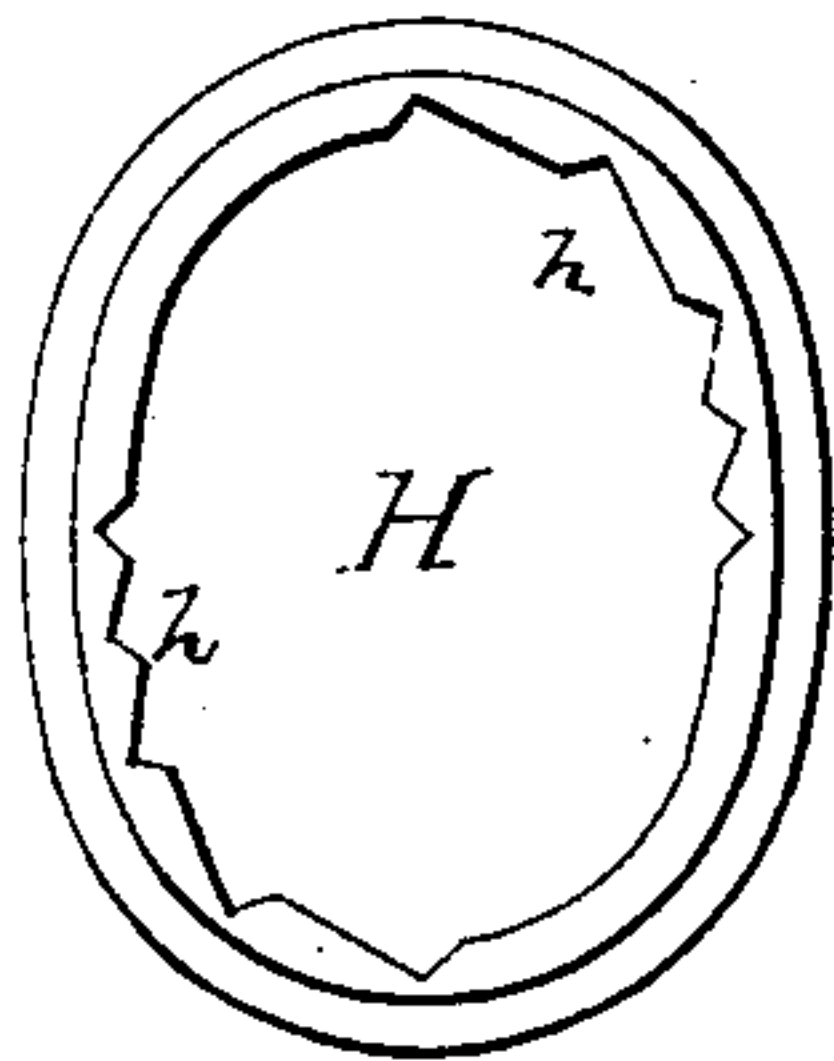


Fig. 3.

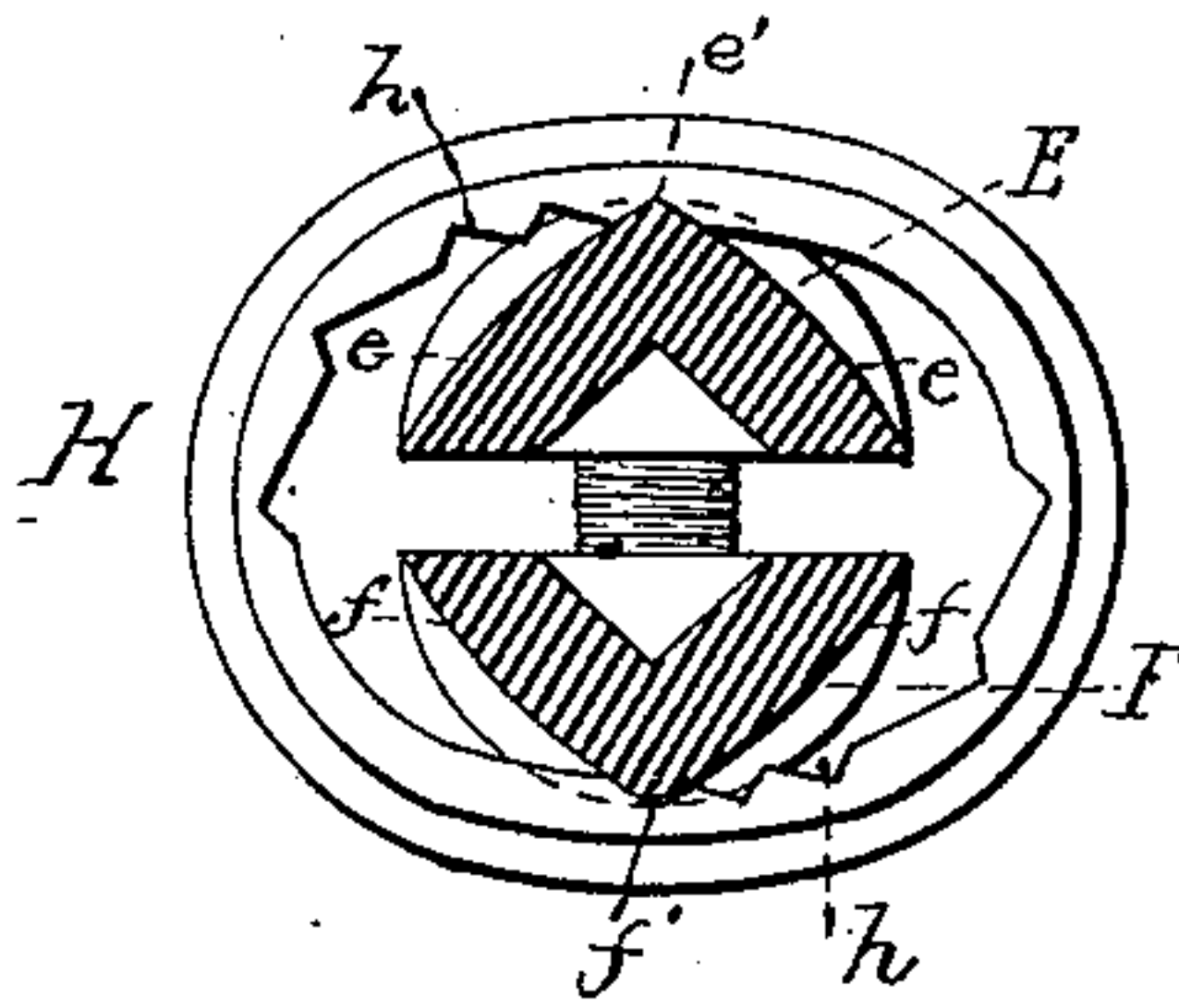
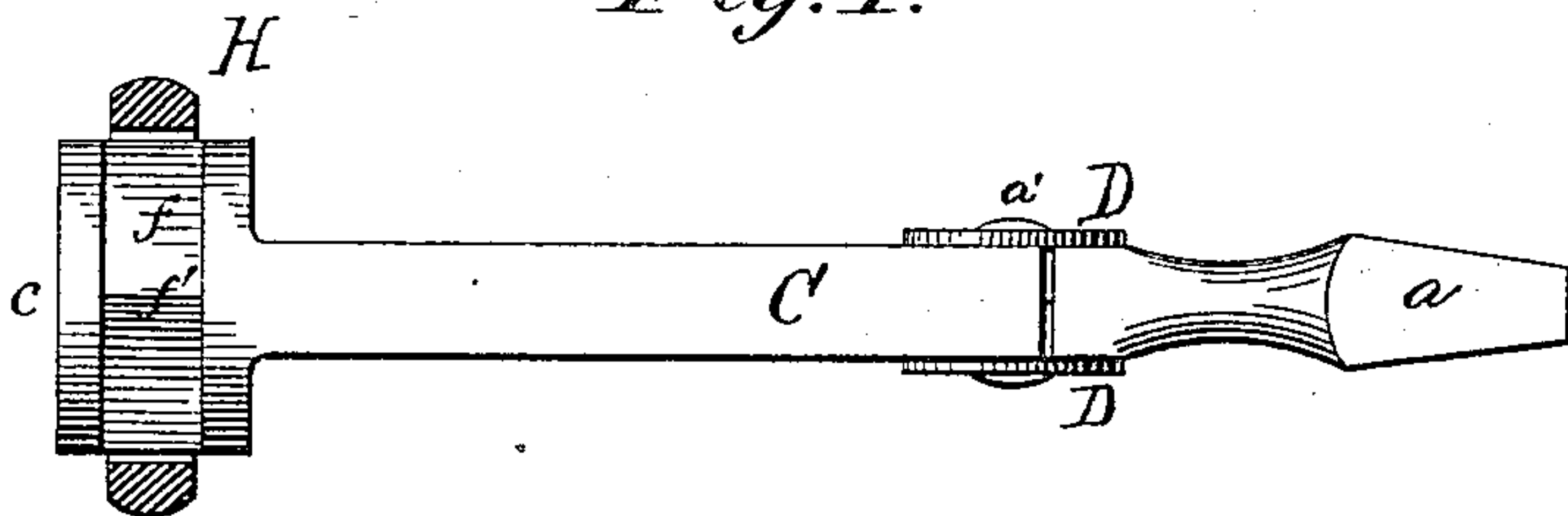


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY WHEELER, OF CHAMBERSVILLE, MISSOURI.

SOCKET-WRENCH.

SPECIFICATION forming part of Letters Patent No. 269,902, dated January 2, 1883.

Application filed October 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY WHEELER, a citizen of the United States, of Chambersville, in the county of Dade and State of Missouri, have invented certain new and useful Improvements in Socket-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 perspective view of the device. Fig. 2 is a face view of the ring. Fig. 3 is a transverse section taken through the grooves at the end of the wrench, the ring being in elevation. Fig. 4 is a side view, the ring being in section.

This invention relates to improvements in socket-wrenches; and its object is to furnish an adjustable wrench of this class which can be readily adapted to different sizes, and will be firmly held at any point of adjustment.

The invention consists in a wrench having the peculiarities of construction hereinafter set forth.

In the annexed drawings, the letter A indicates the wrench. Extending from and integral with the tang or stock *a* is one jaw, B, halved into which and held by a rivet, *a'*, is the other jaw, C. At each end of the rivet is placed a washer, D, which bears against both jaws. At their ends *b* and *c* these jaws are made on the inside with angular recesses *b'* *c'*, the two forming the socket of the wrench, for grasping the articles to be manipulated. Each end *b c* is provided on the outside with a semi-circular groove, E F, the bottoms of the grooves being made by two approximately straight surfaces, *e* and *f*, forming chords of arcs, and

uniting in the points *e'* and *f'*. Between the jaws B and C is placed a spring, G, to keep the said jaws apart, as shown.

H represents an ellipsoidal or oblong retaining-ring for holding the jaws at a determined point. On the inside this ring is furnished with notches *h*, placed irregularly around, as shown. In use the ring is placed in the grooves E and F and the socket over the article, nut, tap, &c., to be manipulated. The ring is turned until the proper notches catch the joints *e'* and *f'*, when the spring G by its action locks the parts together. Power applied to the stock *a* by a brace or otherwise will then operate the wrench, moving the article which it grasps.

The washers D perform an important function by bracing the jaws on each side, preventing any twisting action and weakening of the joint.

Having described my invention, what I claim is—

1. The jaws B and C, having angular recesses *b'* and *c'* on the inside and points *e'* and *f'* on the outside, in combination with the ring H, having notches *h*, as set forth.

2. Jaws B and C, in combination with the ring H and spring G, as set forth.

3. A socket-wrench having the following parts, to wit: the stock *a*, jaws B and C, provided with angular recesses *b'* and *c'*, grooves E and F, and points *e'* and *f'*, spring G, and ring H, having notches *h*, as set forth.

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

HENRY WHEELER.

Witnesses:

E. C. CROW,
D. A. SMITH,
G. W. CROW.