(No Model.)

J. M. HAMRICK.

WRENCH.

No. 278,135. Patented May 22, 1883.

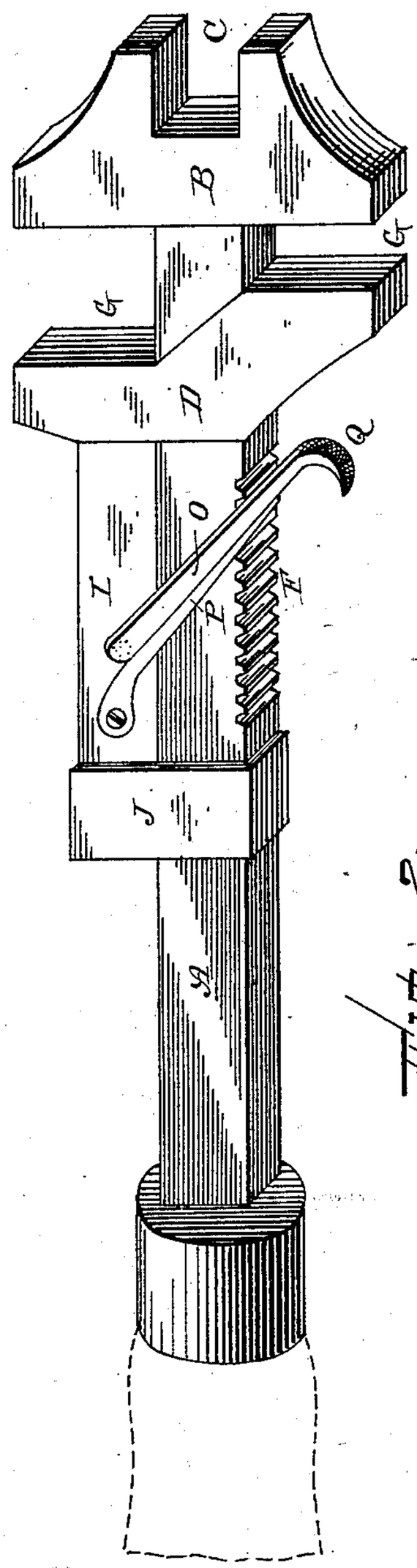

Fig. 1.

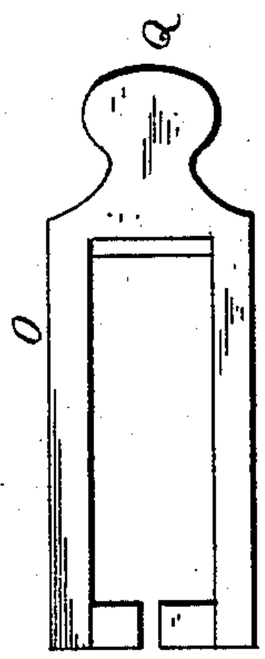

Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

JEROME M. HAMRICK, OF BUFFALO GAP, TEXAS.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 278,135, dated May 22, 1883.

Application filed February 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, J. M. HAMRICK, of Buffalo Gap, in the county of Taylor and State of Texas, have invented certain new and useful Improvements in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in wrenches; and it consists in the combination of the main bar, which is provided with a head having a suitable recess to catch over nuts, with a sliding head, which has two surfaces to act in connection with the opposite ends of the head A, but out of line with each other, and a spring-actuated catch, which catches in suitable ratchets made in the main bar, so as to hold the sliding head in position, all of which will be more fully described hereinafter.

The object of my invention is to provide a ratchet with a sliding jaw which is adapted to be used in connection with different-sized nuts, and to provide the stationary jaw with a suitable recess in its top, so that the wrench can be used in connection with nuts in different positions.

Figure 1 is a perspective of a wrench embodying my invention. Fig. 2 is a detailed view of the catch.

A represents the main bar, which has a number of ratchets, F, formed in one of its edges or sides, and which has the head B secured rigidly to one end, as shown. This head B projects beyond both sides or edges of the bar A, and has a suitable recess, C, for catching over nuts formed in its outer side, so that the wrench can be applied to nuts where the nut is raised a considerable distance or is surrounded by other objects where a wrench of ordinary construction could not be applied thereto. Sliding back and forth over the main bar A is the sliding jaw D, which has two surfaces, G, to act in connection with the inner side of the head or jaw B; but these two surfaces G, as is shown in Fig. 1, are out of line with each other. The jaw D is constructed, as shown, so as to be adapted to be used in connection with different-sized nuts from a single adjustment, and thus save the time and trouble of so frequently adjusting the jaw. Secured to the outer side of this jaw D is a bar, I, which bears against the side of the bar A, and which has its opposite end from the jaw B connected to a loop or guide, J, which passes over or around the bar A. Pivoted or otherwise connected to this bar I is the catch O, as shown in Fig. 2, which engages with the ratchets formed in the edge or side of the bar A. Also secured to the bar I is a suitable spring or springs, P, for bearing against the edge of the catch O, and thus holding it forcibly in contact with the ratchets. The outer end of this catch O is formed into the thumb-piece Q, and when it is desired to move this catch out of contact with the ratchets the thumb is applied to this part Q, so as to force it in the direction of the spring P away from the ratchets F. Freeing the catch allows the jaw D to be quickly adjusted back and forth upon the bar A, so as to accommodate the jaw to nuts of different sizes.

Having thus described my invention, I claim—

The combination, in a wrench, of the bar A, provided with ratchets F, the head or jaw B, rigidly secured to the bar A, and having the recesses C, and sliding jaw D, having two bearing-surfaces, G, out of line with each other, the bar I, and guide J, with the catch O and spring P, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JEROME MILLER HAMRICK.

Witnesses:

W. C. CHEATHAM,

W. H. WEEKS.