W. K. STEVENS.

Pipe-Wrench.

No. 168,852. Patented Oct. 19, 1875.

Fig. 1.

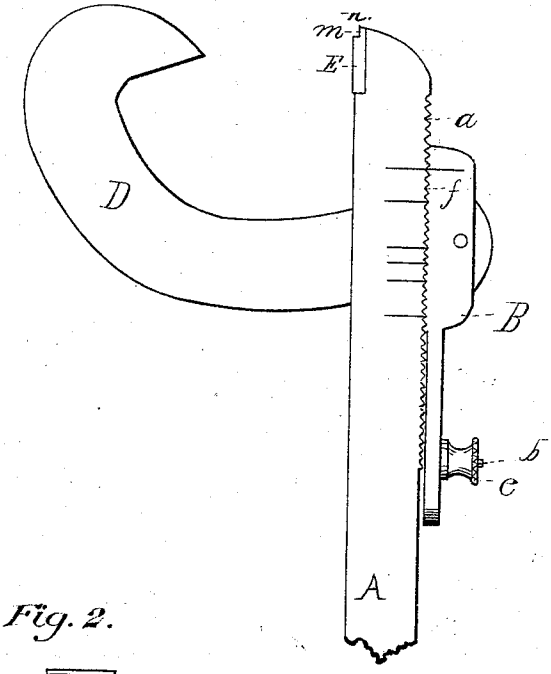


Fig. 2.

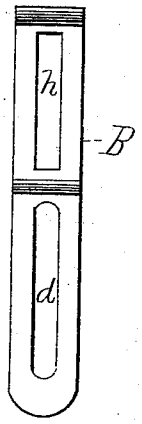
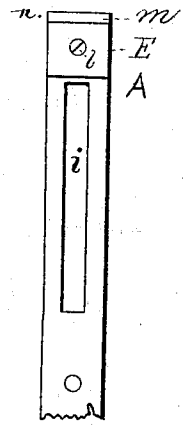


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM K. STEVENS, OF MANSFIELD, OHIO, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO JAMES A. NIMAN AND JOHN B. NIMAN, OF SAME PLACE.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. **168,852**, dated October 19, 1875; application filed August 25, 1875.

To all whom it may concern:

Be it known that I, WM. K. STEVENS, of Mansfield, Ohio, have invented new and useful Improvements in Pipe-Wrenches, of which the following is a specification, reference being had to the accompanying drawings.

The invention relates to an improved pipe-wrench provided with an adjustable toothed slide, which serves to regulate the grasp of the jaw or hook, and a removable double biting-edge, all as more particularly described hereinafter.

The object of the invention is to provide a tool for manipulating pipe, and analogous purposes.

Figure 1 is a side elevation of a device embodying the elements of the invention. Fig. 2 is an edge view of the slide. Fig. 3 is an edge view of the biting-edge.

A in the accompanying drawing represents the shaft or handle of the device, provided at one end on its under side with the toothed surface *a*, adjacent the end of which is fixed the threaded standard *b*, which passes through the slot *d* at the rear of the movable slide B, which is secured on the standard by the set-screw *e*. The opposite end of the slide is provided on its upper side with the toothed surface *f*, of such character as to engage the surface *a*, and having in its midst, and extending through the slide, the slot *h*, wherein is pivoted the lower end of the jaw or hook D, which extends through the slot *i*, situated in the surface *a*, and extending through the handle A. The jaw or hook D extends beyond the end of the handle A, its biting-edge projecting downward toward the end of the handle, on the upper surface of which is placed the plate E, secured to the handle by a set-screw, *l*, or other movable means, and on its extreme edge provided with the groove *m*, forming the double biting-edge *n*. This plate may, if desired, be of hard metal, and can readily be removed for grinding or other purposes. The handle is provided with a scale, and the slide with an index-line, so that the capacity of the device may readily be regulated.

It is obvious that as the slide is moved toward the plate E the gripe of the device is increased, a contrary movement reducing it; also, that to set the device, it is only necessary to move the slide to the desired point on the scale, and secure it by the set-screw, the surfaces *a* and *f* preventing the slide slipping.

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

The handle A, provided with the toothed surface *f*, biting-plate E, and stud *b*, in combination with the pivoted adjustable hook D, slotted toothed plate B, and clamp-screw *e*, substantially as shown and described.

In testimony that I claim the foregoing improvements in pipe-wrenches, as above described, I have hereunto set my hand and seal this 7th day of August, 1875.

WILLIAM K. STEVENS. [L. S.]

Witnesses:

F. W. WAGNER,

JOSEPH LEECH.