

H. A. HYLE.

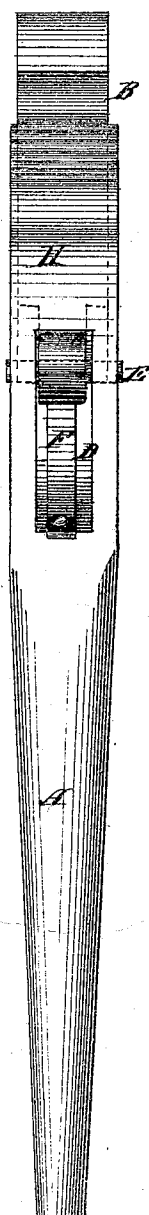
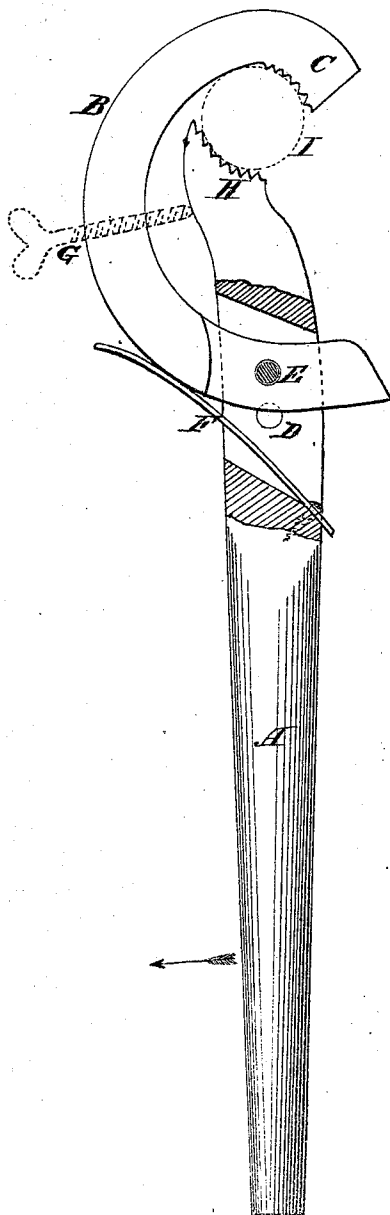
Improvement in Wrenches.

No. 121,372.

Patented Nov. 28, 1871.

Fig. 1.

Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY A. HYLE, OF SHAMBURG, PENNSYLVANIA.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. 121,372, dated November 28, 1871.

To all whom it may concern:

Be it known that I, HENRY A. HYLE, of Shamburg, in the county of Venango and State of Pennsylvania, have invented certain Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

The invention relates to that class of pipe-wrenches which has one pivoted jaw held on the pipe by spring pressure, and which will bite very well upon pipes slightly varying in circumference, but not on different classes of pipes; and it consists in making the pivoted jaw adjustable so as to gripe a large or small class of pipes, and also in adjusting the throw of the spring-impelled jaw so that it cannot bite with so much force as to crush the pipe.

Figure 1 of drawing is a side view of a pipe-wrench partly in section. Fig. 2 is an edge view.

A represents the lever-handle; B, the curved jaw pivoted in a slot thereof; C, the serrated griper end of said jaw; and D E, two pivoted points on which said jaw may be made to turn. F is the impelling spring of the movable jaw; G, a set-screw passing therethrough; and H, a serrated jaw, stationary on the end of lever A.

When it is desired to use the tool upon a class of pipes of considerable diameter the jaw B is

pivoted, as shown in Fig. 1, at the point E; but if it is to be employed upon a class of pipes considerably less in diameter, it is moved back upon the pivot D. The effect of this improvement is to make one wrench do what has hitherto been done by two. Again, when moved back to grasp a smaller class of pipes, which are, of course, slighter in proportion to their diameter, these pipes are liable to be crushed, more or less, by the force of the spring. In order to avoid this I employ a set-screw, G, which passes through the jaw B and bears against the back of jaw H. By passing this screw to a greater or less distance through the movable jaw the throw of the latter may be graduated so as to enable the jaw C to bite exactly to the extent required.

Having thus described all that is necessary to a full understanding of my invention, what I esteem to be new, and desire to protect by Letters Patent, is—

The pipe-wrench herein described, consisting of the handle A, serrated jaws H C, set-screw G, and spring F, when the serrated surfaces of the jaws are arranged so as to grasp the pipe on two diametrically opposite sides, all as shown and described.

HENRY A. HYLE.

Witnesses:

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(100)