

(No Model.)

T. D. McCARTY & F. C. SAWHILL.

PIPE WRENCH.

No. 354,718.

Patented Dec. 21, 1886.

Fig. 1.

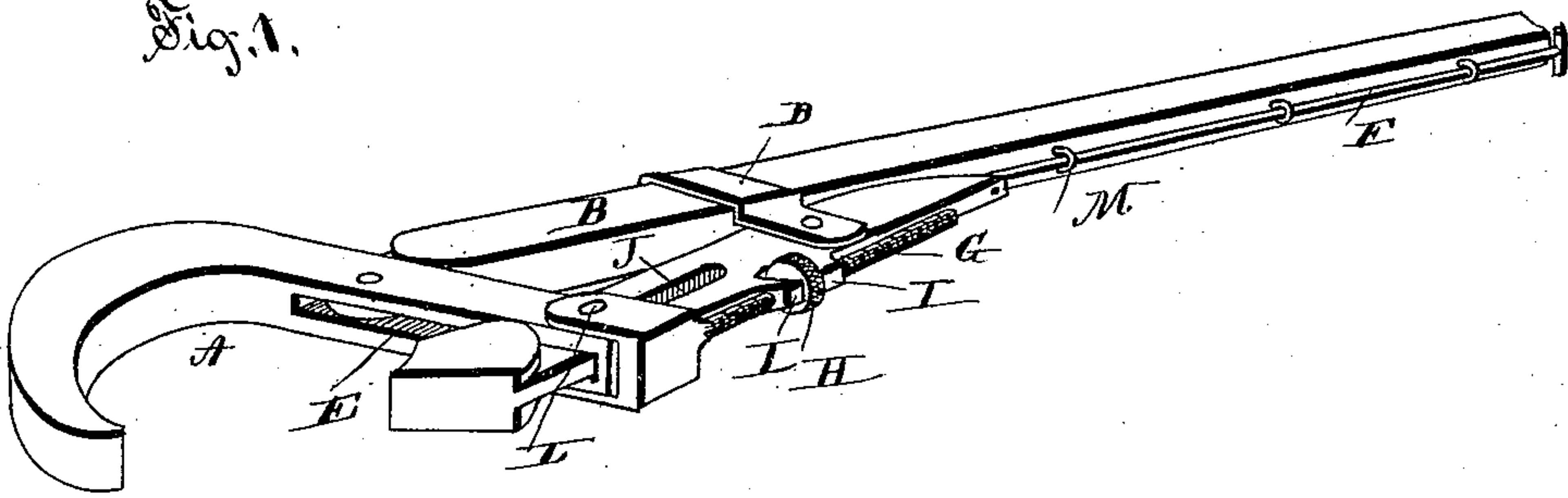
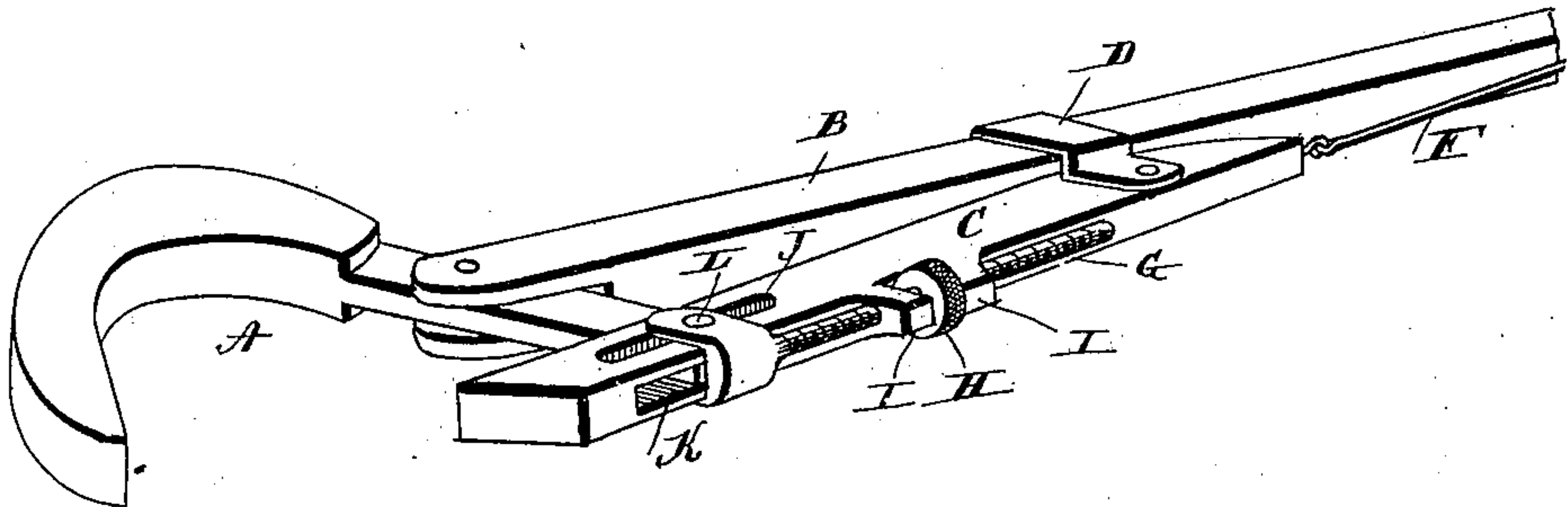


Fig. 2.



WITNESSES
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UNITED STATES PATENT OFFICE.

THOMAS D. McCARTY AND FRANK C. SAWHILL, OF MIDWAY, PA.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 354,718, dated December 21, 1886.

Application filed August 25, 1886. Serial No. 211,837. (No model.)

To all whom it may concern:

Be it known that we, THOMAS D. McCARTY and FRANK C. SAWHILL, both residents of Midway, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Pipe-Wrenches; and we 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, which form a part of this specification, and in which—

Figure 1 is a perspective view of one form of pipe-wrench, showing our improvements applied thereto; and Fig. 2 is a similar view representing the same as applied to a modified form of said wrench.

Like letters of reference indicate corresponding parts in the figures.

Our invention relates to certain improvements upon pipe-wrenches which are especially applicable to that form of pipe-wrench for which Letters Patent of the United States, No. 246,299, were granted to us July 27, 1886, and which consists in the improved construction and combination of parts, as will be hereinafter fully set forth.

Referring to the accompanying drawings, the control-rod F, with hook at one end and handle at the other, and the adjusting-screw G, with its thumb-nut H, are the main elements in the improvements. These are shown in Fig. 1 as applied to the wrench covered by the above-mentioned patent. Said wrench consists of the hook A, with its slot E, the handle B, the lever or jaw C, and the guard D. Lugs I with smooth perforations are formed upon the outer edge of the jaw for the attachment of the adjusting screw and nut, and a slot, J, is formed in said jaw to permit the adjustment thereof.

In Fig. 2 the hook has its shank reduced from both sides, the end of the handle is bifurcated to embrace the same, and the jaw has a slot, K, formed at right angles to the slot J, for the reception of the end of said shank.

The adjusting-screw has a clip formed upon one end. In Fig. 1 this clip embraces the end of the hook's shank, the pivot-pin L passing through its ends, through said shank, and through the slot J. In Fig. 2 said clip em-

braces the jaw, and the pin passes through its ends, the slot J, and the end of the shank, which is adjustable in the slot K.

The control-rod is connected by its hooked end to the outer end of the jaw by passing it through the same or through an eye attached thereto, and is adapted to slide through staples M, secured to the edge of the handle, as it is moved backward or forward in the manipulation of the hook and jaw.

By means of the adjustment-screw the wrench can be adapted for use upon pipes of various sizes, and by means of the control-rod the hook and jaw may be made to grip pipes which are so located as to allow a very limited movement of the handle.

In this form of wrench the head of the jaw may be made in any of the common ways—flat, chisel-pointed, rounded from one side or rounded from both—and these several faces may or may not be fluted, all of which forms will work perfectly when used in connection with a continuously-curved hook, or with one part curved and part straight.

Having thus fully described our invention, we claim—

1. The combination, with a pipe-wrench consisting of a hook, a handle pivoted to the inner end of the shank of said hook, and a jaw pivoted to the outer end of said shank, of a control-rod connected to the outer end of said jaw and extended along the edge of said handle, as and for the purpose set forth.

2. The combination, with a pipe-wrench consisting of a hook, a handle pivoted to the inner end of the shank of said hook, a jaw pivoted to the outer end of said shank, and a guard pivoted to the outer end of said jaw, of a control-rod connected to the outer end of said jaw and passed through staples secured to the edge of said handle, as shown and described.

3. The combination, with a pipe-wrench consisting of a hook, a handle pivoted to the inner end of the shank of said hook, and a jaw pivoted to the outer end of said shank, of an adjustment-screw connected to said jaw and to said shank, as and for the purpose set forth.

4. The combination of a hook, a handle pivoted to the inner end of the shank of said hook, a slotted jaw pivoted to the outer end of said shank and having a pair of lugs upon its edge provided with smooth perforations,

an adjustment-screw having a clip at one end, a pivot-pin passed through the ends of said clip, the shank, and the slot of said jaw, and a thumb-nut, as shown and described.

- 5 5. The combination of a hook whose shank is reduced from both sides, a handle with a bifurcated end pivoted to the inner end of the shank, a jaw pivoted to the outer end of said shank and provided with slots formed at right
10 angles to each other near its inner end, and a regulating-screw secured to said jaw and piv-

oted to said shank, as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

THOMAS D. McCARTY.
FRANK C. SAWHILL.

Witnesses:

WILLIAM J. BIGG,
JOSEPH MORGAN.