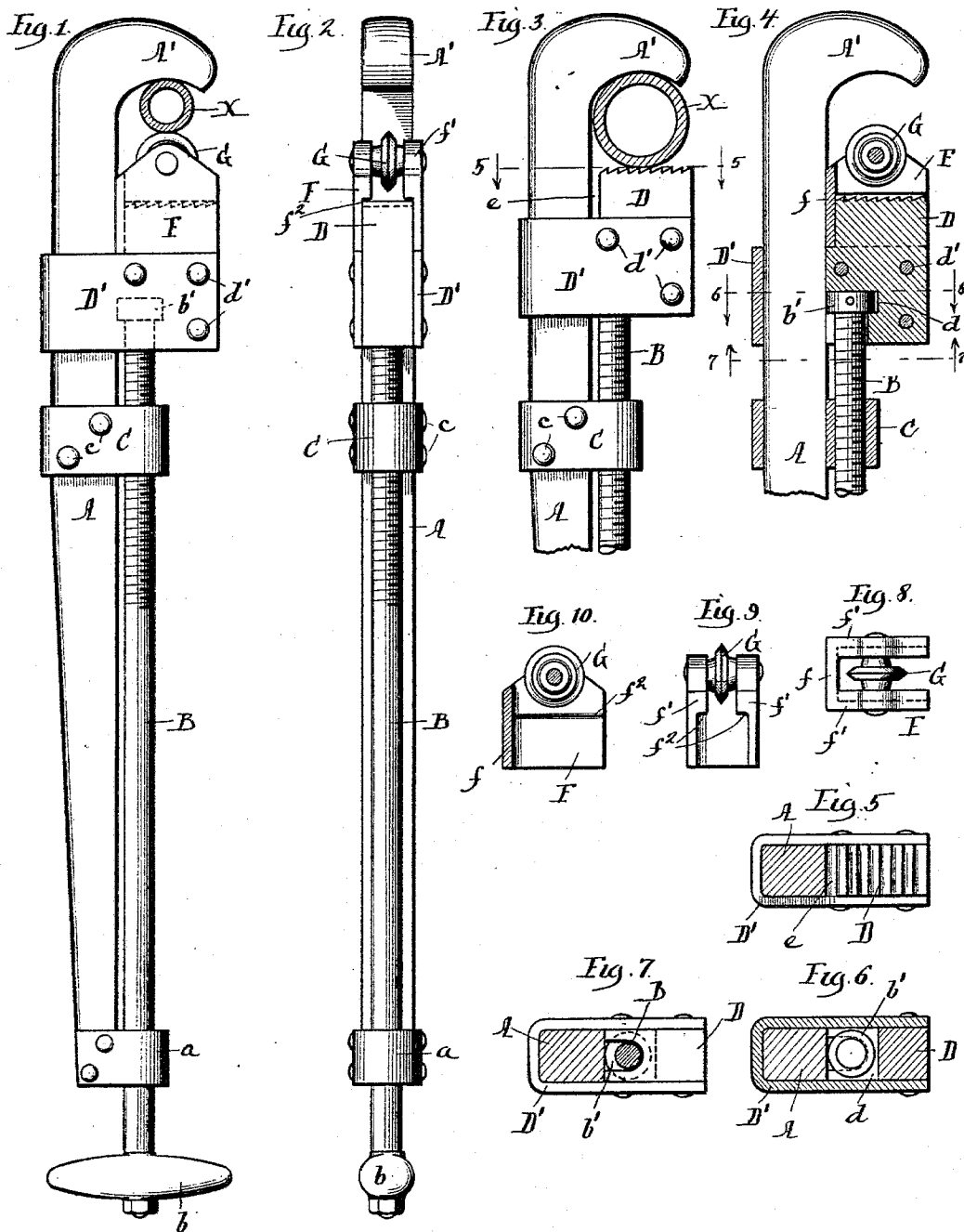


(No Model)

M. LEVENDUSKY.
COMBINED PIPE WRENCH AND CUTTER.

No. 584,180.

Patented June 8, 1897.



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UNITED STATES PATENT OFFICE.

MICHAEL LEVENDUSKY, OF MARQUETTE, MICHIGAN.

COMBINED PIPE WRENCH AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 584,180, dated June 8, 1897.

Application filed December 26, 1896. Serial No. 616,970. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL LEVENDUSKY, a citizen of the United States, and a resident of Marquette, in the county of Marquette, State of Michigan, have invented certain new and useful Improvements in a Combined Pipe Wrench and Cutter, of which I do declare the following to be a full, clear, and exact description, reference being had to the accompany drawings, forming a part of this specification.

The present invention has for its object mainly to provide a simple and effective means whereby a combined pipe-wrench and pipe-cutter can be formed; and this object of invention is accomplished by the improvement hereinafter described, illustrated in the accompanying drawings, and particularly defined in the claims at the end of this specification.

Figure 1 is a view in side elevation of a combined pipe wrench and cutter embodying my invention. Fig. 2 is a view in front elevation. Fig. 3 is a view in side elevation of the upper portion of the tool, the cutter arrangement being removed. Fig. 4 is a view similar to Fig. 3, but showing the movable jaw of the cutter in vertical section. Fig. 5 is a view in cross-section on line 5 5 of Fig. 3. Fig. 6 is a view in cross-section on line 6 6 of Fig. 4. Fig. 7 is a view in cross-section on line 7 7 of Fig. 4. Fig. 8 is a detail plan view of the cutter and its holder. Fig. 9 is a detail front view of the cutter and its holder. Fig. 10 is a view in vertical cross-section through the axis of the cutter and through its hole.

A designates the body of the tool, one end of this body being formed or provided with a rigid jaw A', while the opposite end is provided or formed with a guide-loop a, through which passes the adjusting screw-rod B, the turning of which is effected by a suitable handle b at its outer end. The screw-rod B passes through a correspondingly-threaded sleeve C, that is securely attached, as by rivet c, to the body A of the tool, while the upper end of the screw-rod B is provided with an expanded head b', that sets within the enlarged upper portion of a cut-away space d of the movable jaw D, the head b' of the screw B being conveniently formed, as shown

in Figs. 4 and 6, by a ring that is attached to the upper end of the screw B. The jaw D is movably mounted upon the body A of the tool, being held in place by means of the loop or strap D', that passes around the body A and is secured to the jaw D by rivets d' or in other convenient manner. The upper face of the jaw D is preferably provided with teeth or serrations, as shown, in order to enable it to better engage the surface of a pipe-rod or like article to be turned. Preferably the upper portion of the jaw D terminates at a slight distance of the body A of the tool, thereby leaving the open space e to receive the rear wall f of the holder F, that carries the cutter G. This cutter G consists, preferably, of a hardened-steel disk, the axis of which passes through suitable openings formed in the side walls f' of the holder F. The inner face of the side walls f' are shown as furnished with shoulders f², adapted to rest upon the upper face of the movable jaw D, and preferably the rear walls f of the side wall f' of the holder are of such length as that the rear wall shall set against the bottom of the cut-away space e, while the side walls f' rest upon the upper edges of the strap or loop D'.

By reference more particularly to Figs. 4, 6, and 7 it will be seen that the inner face of the movable jaw D, being formed with the cut-away space d, will permit the jaw to be readily set over the upper headed end of the screw-rod B, and when the strap or loop D' is in position the screw-rod will be securely held in place, so that it shall receive the strain from the movable jaw D.

When the tool is to be used as a pipe-wrench, the holder F and cutter G will be removed, as seen in Fig. 3, thereby permitting the adjustment of the screw-rod B to be effected in order to cause the pipe or rod to be firmly clamped between the fixed and rigid jaws A' and D. When, however, the tool is to be used as a pipe or rod cutter, the holder F and cutter G will be set in the position seen in Figs. 1, 2, and 4 of the drawings. The operator can then turn the rod B, so as to cause the cutter to bear upon the pipe X and can manipulate the tool so as to insure the effective action of the cutter.

My invention affords not only a simple and effective construction of pipe-wrench, but

also provides a most effective cutter for pipes, rods, or the like which can be readily attached to or removed from the wrench.

While I have described what I regard as the preferred form of my invention, it is manifest that the precise details of construction may be varied within wide limits by the skilled mechanic and that features of the invention may be employed without its adoption as an entirety. Thus, for example, without radical departure from the invention the holder F can be modified, so as to adapt it for other types of wrenches, and I therefore do not wish the invention to be understood as restricted to the details above set forth.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pipe wrench or cutter comprising the combination of a body A having at one end a rigid jaw and having at its opposite end a

guide-loop a, an adjusting screw-rod B encircled near its free end by said guide-loop and provided with a suitable handle, a threaded sleeve C connected to said body A and through which said screw-rod also passes and a movable jaw D connected with said screw-rod and adapted to be shifted thereby.

2. The combination with one of the jaws of a wrench, of a rotary cutter, a holder wherein said cutter is mounted, said holder having depending side and rear walls, said jaw being cut away at its rear to permit the rear wall of the holder to be inserted between the jaw and the body of the wrench.

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