

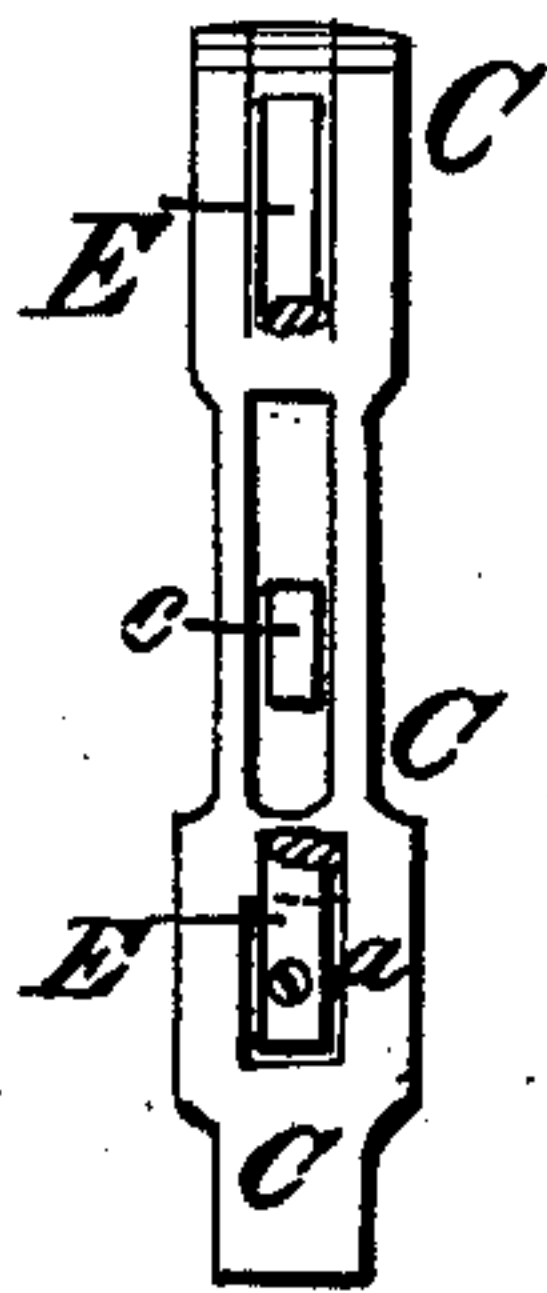
*J. L. Brierly,*

*Wrench.*

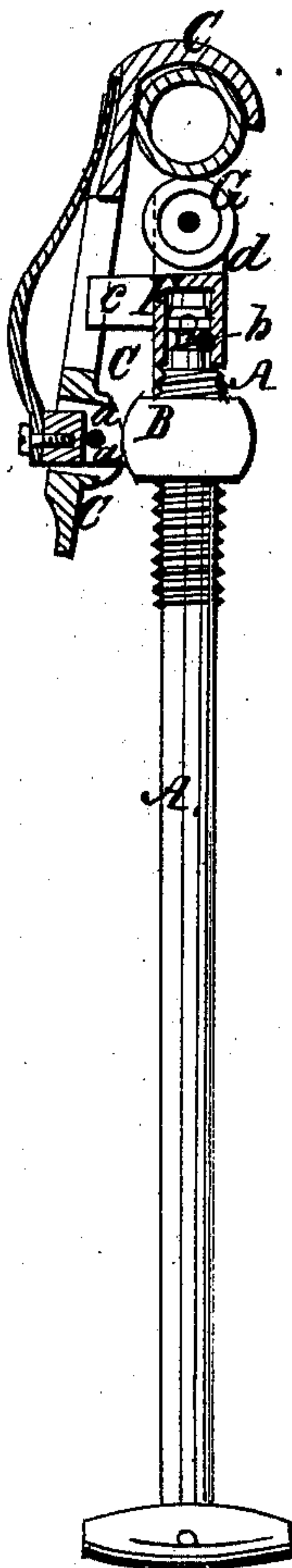
*No 78,047.*

*Patented May 19, 1868.*

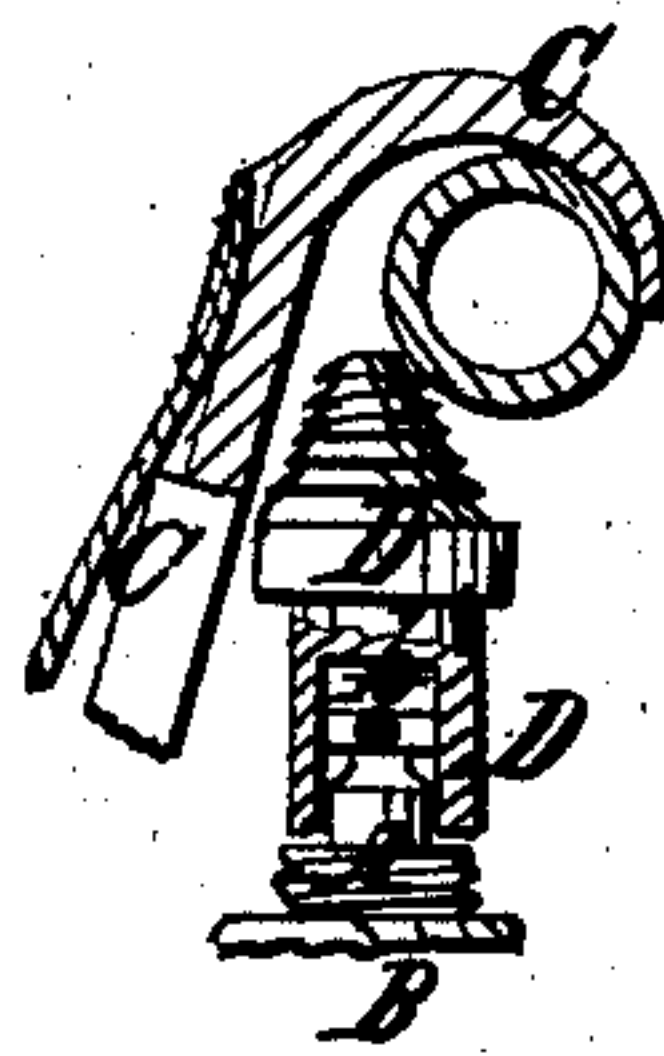
*Fig. 3.*



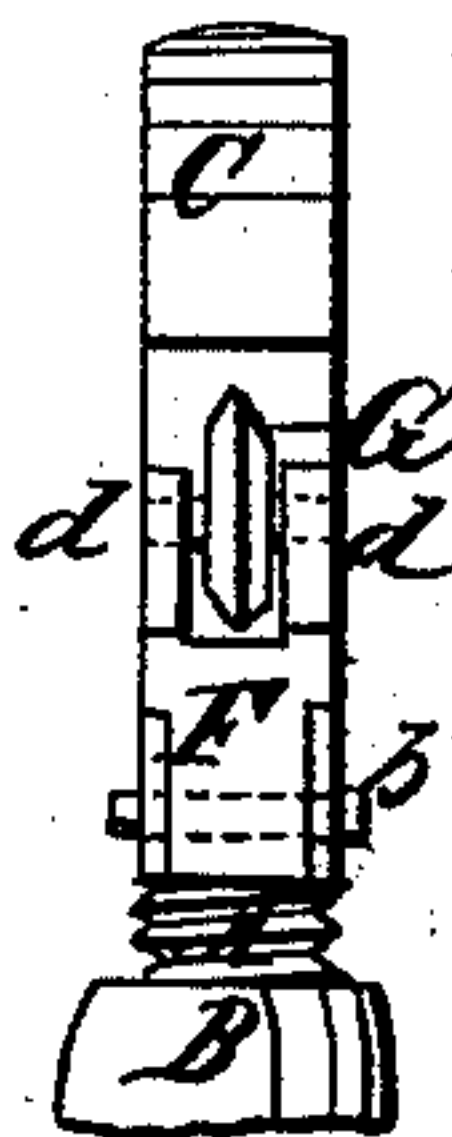
*Fig. 1.*



*Fig. 2.*



*Fig. 4.*



*Witnesses:*

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# United States Patent Office.

JAMES L. BRIERLY, OF AUBURN, MASSACHUSETTS.

*Letters Patent No. 78,047, dated May 19, 1868.*

## IMPROVEMENT IN PIPE-WRENCH AND CUTTER.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES L. BRIERLY, of Auburn, in the county of Worcester, and State of Massachusetts, have invented a new and improved Combined Pipe-Wrench and Cutter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side view, partly in section, of my improved pipe-cutter.

Figure 2 is a detail side view of my improved pipe-wrench.

Figure 3 is a detail back view of the pipe-cutter.

Figure 4 is a detail front view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new device for clamping and cutting pipe, and consists in the arrangement and combination with each other of a screw-rod, nut, head-cutter, and clamp. The rod is screwed into the nut, to which the head is pivoted, the head being bent like a hook. To the end of the screw-rod, which is between the nut and the hook, can be fastened either the clamp or the cutter. The clamp is a block with concave, conical, or other suitably-shaped end, and between it and the hook a pipe of suitable diameter can be clamped. By means of the screw, the distance between the clamp and the hook can be regulated, and the device is consequently an adjustable pipe-wrench.

The cutter consists of a disk with sharpened edge hung within a block which is fastened to the end of the screw-rod, and which is guided by means of a pin within a slot in the clamp, so as not to turn on the screw-rod. The pipe is clamped between the edge of the disk and the hook, and by then turning the instrument around the pipe, the same will be cut by the disk.

A, in the drawing, represents a rod having a screw-thread at one end, and a handle of suitable shape at the other. The screw is fitted through a nut, B, from which a lug, *a*, projects, to which a hook-shaped bar or plate, C, is pivoted, as is clearly shown in fig. 1.

To the end of the rod A can be swivelled a block, D, and fastened by means of a pin, *b*. The end of this block can be conical, as in fig. 2, or of any other suitable shape.

By means of a spring, E, which is fastened to the lug *a*, the hook can be thrown towards the rod A, as shown.

The pipe to be clamped is held between the block D and the hook C, in the manner indicated in fig. 2, and, by turning the rod A, the device can be adapted to a pipe of suitable size.

To convert the device into a pipe-cutter, the block D is removed, and another block, F, is fastened, by means of the pin *b*, to the end of the rod A. The block F has a pin, *c*, which fits through a slot in the plate C, as shown in figs. 1 and 3, or is otherwise prevented from turning on the rod A. From the end of the block F project two ears *d d*, in which the bearings for a rotary cutting-disk, G, are arranged. The pipe to be cut is clamped between the cutter G and the hook C, and is cut by turning the device around it, and by screwing the cutter against the pipe.

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

1. The slotted hook C, when pivoted to the lug *a*, formed upon the side of the nut B, and held against the pipe by means of the spring E pressing against its back, and secured at one end to the end of the lug *a*, all constructed, arranged, and operating as described, for the purpose specified.

2. The cutter-block F, when provided with the lateral pin *c*, fitting through the slot in the spring-hook C, whereby the cutter is guided and prevented from turning upon the rod A, as herein described, for the purpose specified.

JAMES L. BRIERLY.

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