

(No Model.)

V. B. STEVENS.

PIPE CUTTER.

No. 401,387.

Patented Apr. 16, 1889.

Fig 1

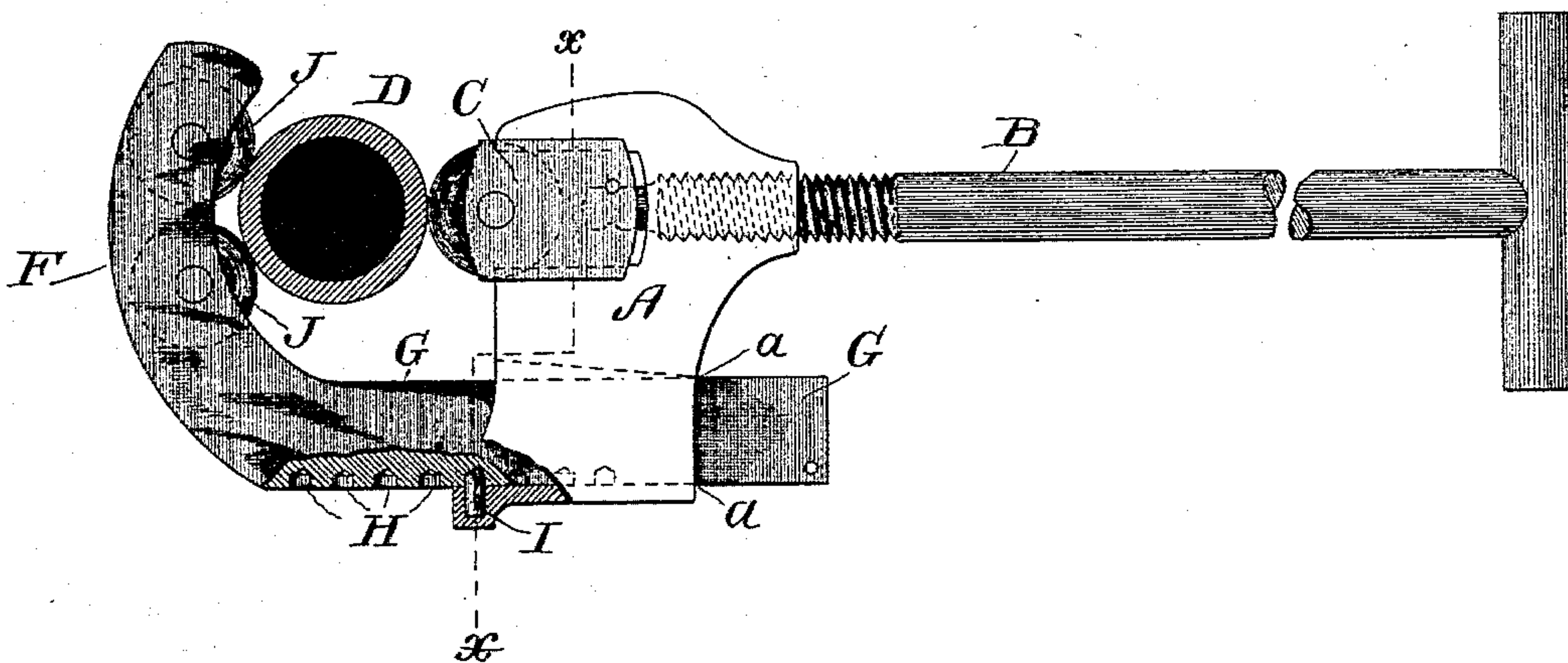
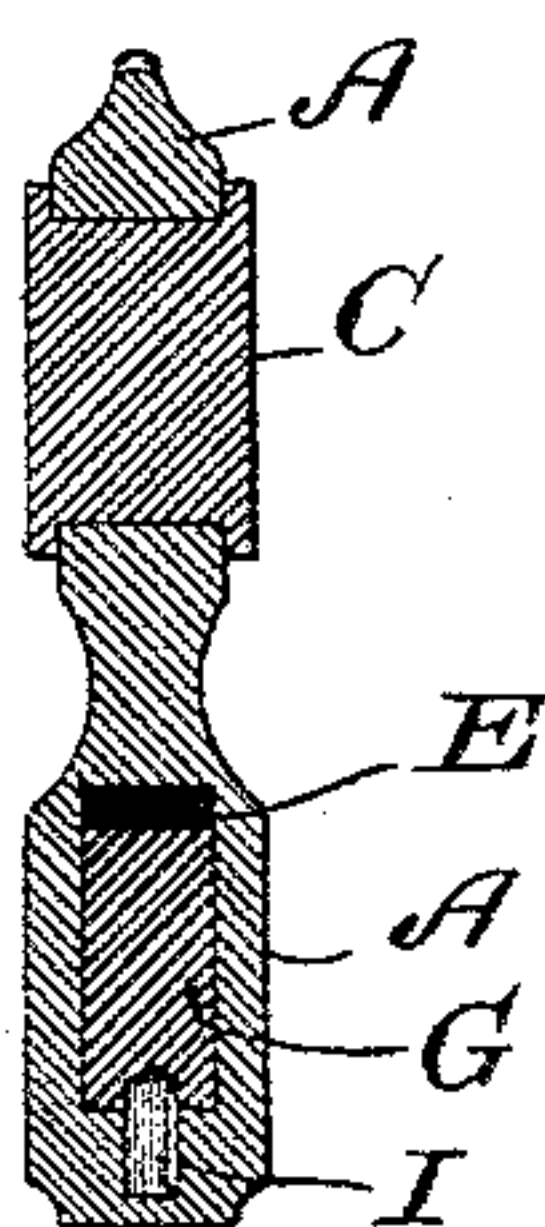


Fig 2



Witnesses.
S. Williamson
E. S. Sumner

Inventor
Vernon B. Stevens
By *J. M. Smith*
att.

UNITED STATES PATENT OFFICE.

VERNON B. STEVENS, OF BRIDGEPORT, CONNECTICUT.

PIPE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 401,387, dated April 16, 1889.

Application filed May 11, 1888. Serial No. 273,578. (No model.)

To all whom it may concern:

Be it known that I, VERNON B. STEVENS, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Pipe-Cutters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to cheapen the construction and improve the efficiency of that class of pipe-cutters which employ circular cutting-blades pivoted in a jaw and stock adjustably connected together, the stock carrying also the handle of the tool arranged to adjust the lower cutter-block. Hitherto the lower cutter-block has been connected to the outer movable and curved jaw, on which it was moved by the handle for adjustment. This construction is expensive, and by this arrangement both the outer jaw and the lower cutter-block are liable to bind, rendering their adjustment to different-sized pipes difficult and inconvenient. By my invention these difficulties are obviated by recessing the stock and placing the lower cutter-block in said recess and connecting it directly to the handle, thus avoiding all connection of the cutter-block with the outer curved jaw.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a broken side elevation of my improved pipe-cutter shown applied to a pipe, and Fig. 2 is a transverse sectional view taken on line $x x$ of Fig. 1.

A represents the stock, and F G the outer curved jaw, provided with the circular cutters J J. The stock A is laterally extended, and through this extension is formed a passage, E, in which the outer jaw is held and in which it is adapted to be adjusted. In a screw-threaded recess in the stock is fitted the handle B, and the inner edge of the stock, in line with the handle B, is recessed or notched, as shown at M, to receive the lower block, C, in which the lower circular cutter, D, is pivoted. The edges of the block C are grooved to form way or cheek pieces m to embrace the edges

of the stock A, and the lower edge of the block is connected by a pin and socket or other suitable connection to the inner end of the handle B, so that by turning the said handle the said block C may be adjusted to cause the penetration of the knives in the use of the cutter.

The outer edge of the jaw F G is formed with a series of sockets, H, and the stock A is provided with a pin, I, adapted to enter one or the other of these sockets when the jaw is adjusted to proper position for locking the jaw firmly in place.

The outer wall of the recess E, in which the jaw is held, is parallel with the handle B, while the inner wall is inclined, as shown in Fig. 1, from the end a upward and inward, to form a space to permit the outer jaw to be moved forward to clear the pin I, thus permitting the jaw to be readily disengaged from the pin and adjusted, and as readily locked again in proper parallel position for use. The recess E at the lower edge, $a a$, of the stock A fits closely the jaw F G, as indicated in Fig. 1.

By recessing the stock A to receive the lower cutter-block, C, it will be seen that I avoid all connection of the said block with the jaw F G, which avoids expense of construction and obviates binding in adjusting the outer jaw, and also in adjusting the said block C.

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

The stock A, formed with a socket, M, and provided with the block C and adjustable handle B, and formed with the passage E, the outer wall thereof being parallel with the handle B, and provided with a pin, I, the opposite wall being inclined, in combination with the curved jaw F G, provided with rotating cutters J and formed with a series of sockets, H, the block C being provided with a rotating cutter, D, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

VERNON B. STEVENS.

Witnesses:

S. S. WILLIAMSON,
T. W. SMITH, Jr.