

(No Model.)

E. A. ROBBINS.

PIPE CUTTER.

No. 300,898.

Patented June 24, 1884.

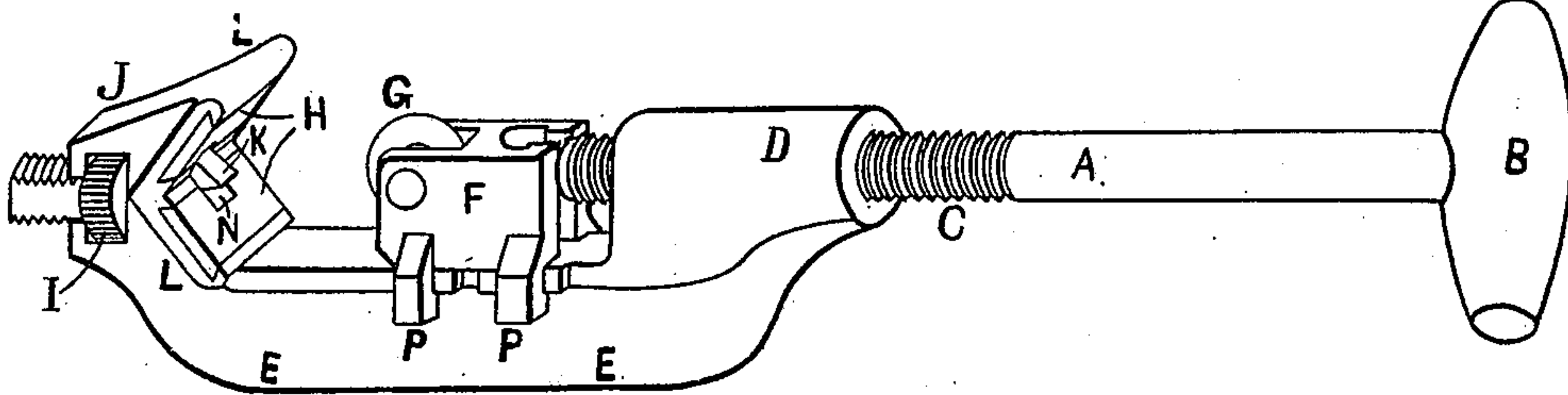


Fig. 1.

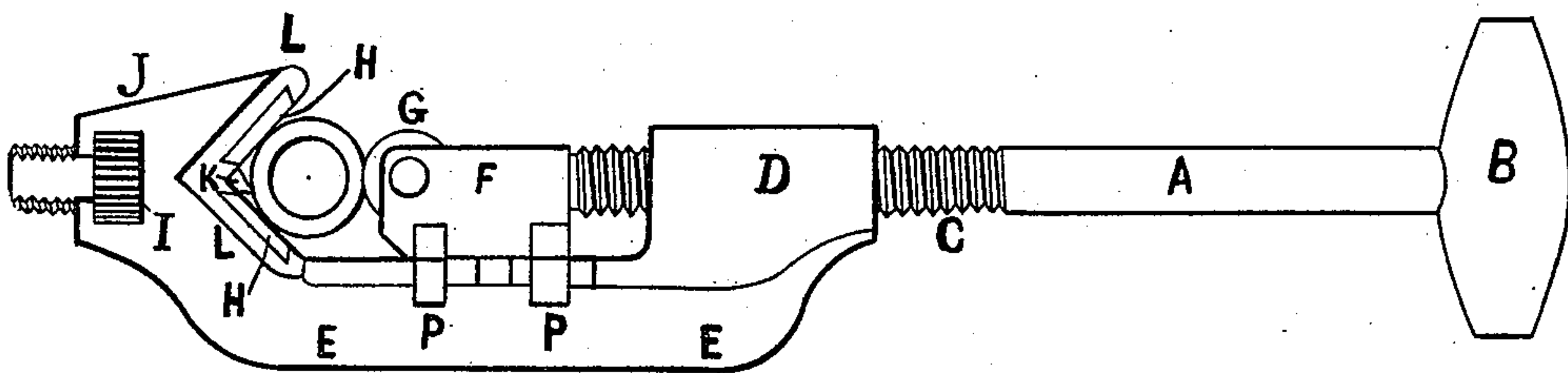


Fig. 2.

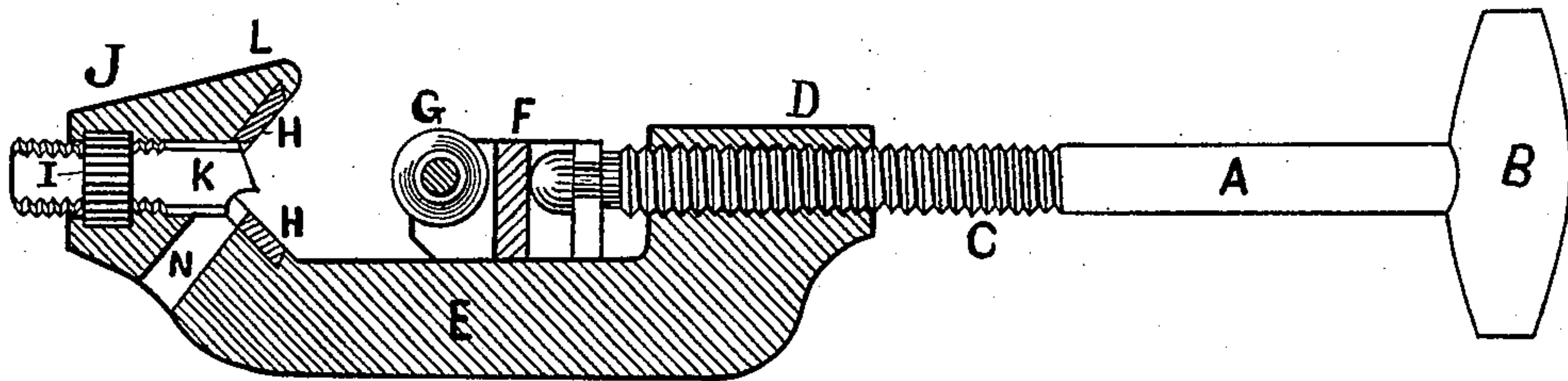


Fig. 3.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

EDWIN A. ROBBINS, OF BOSTON, MASSACHUSETTS.

## PIPE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 300,898, dated June 24, 1884.

Application filed January 10, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN A. ROBBINS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Pipe-Cutters, of which the following is a specification.

The object of my invention is to provide a cheap, simple, convenient, and efficient pipe-cutter, which shall trim or remove the burr from the pipe formed by the rotary cutting-disk in the act of cutting off the pipe, as usual with this class of pipe-cutters; and it consists in the construction, combination, and arrangement of the several parts of the device, as herein- after more fully described, and set forth in the claim.

Figure 1 represents a perspective view of a pipe-cutter embodying my invention. Fig. 2 represents a side elevation of the same in position upon a piece of pipe. Fig. 3 represents a sectional elevation of the same.

A represents the adjusting-bar, having at its rear end a suitable handle, B, to operate the same, and its forward end portion provided with a screw-thread, C, fitting within a screw-threaded hole formed through the rear end portion, D, of the shank-bar E, upon the face of which the cutter-block F is adapted to be slid back and forth thereon by means of the said screw-threaded adjusting handle-bar, the forward end of which is connected loosely within a hole or opening formed within the rear end of the said cutter-block F by a pin and groove, as shown. The forward end of the said cutter-block has journaled therein the steel rotary cutter-disk G, which is beveled upon opposite sides from its hub toward its periphery, so as to form a cutting-edge, as heretofore. The forward end of the said shank-bar E is bent on an angle upward and forward from the plane of its face or body portion a short distance, so as to form a bearing-face for the pipe to be cut, in conjunction with the opposite bearing-face, which is formed upon an angle of about forty-five degrees to the former one, as usual, or as desirable. These bearing-faces are liable to become worn away by frictional contact with the pipe, which is forced against the same in the act of being cut off, as heretofore; and in order to counteract such abrasion I have provided steel face-plates H, which consist of flat pieces of hardened steel,

beveled upon their opposite edges, and driven into dovetailed grooves or cavities formed across such angle-face bearing portions, or right-angle jaws L, as clearly shown in the drawings. These steel face-plates H are alike in form and construction, and may be cheaply made and applied to the said faces readily, and easily removed and renewed when worn, and being counterparts they are interchangeable, and several pieces may be supplied with each pipe-cutter, if desired. The said beveled rotary cutting wheels or disks G, when forced into the surface of the pipe being cut, form a "burr" or annular projection each side of the cut, or upon the peripheries or outer surfaces of the adjacent portions of such pipe each side of the said rotary cutting-disk, so as to greatly retard the progress of the same into and through the pipe as it is severed in pieces for use, and subsequently furnished with a screw-threaded portion at each end, so it may be connected with screw-threaded couplings, as heretofore. Now, in order to remove such burrs or projections as fast as they are formed by the rotary cutter G, I provide an adjustable steel cutter, K, furnished with a screw-thread, and provided with an adjusting or corresponding screw-threaded nut, I, which has a bearing upon opposite sides of a suitable opening formed in the extreme forward end portion or extension, J, from the right-angle jaws L, as shown; and at or near the intersection of the said jaws L and beneath the said cutter K is formed an opening, N, into and through which the cuttings or chips from the pipe removed by the said cutter K may be permitted to pass during the operation.

It will be seen and understood that the said cutters G and K are made adjustable, so as to operate with the same facility upon different sizes of pipe, and that the said cutter K may be adjusted so as to reduce the external diameter of the pipe cut, more or less, as may be predetermined, or as desired. The said cutter-block F is held in contact with the face of the shank-bar E by hooked lugs P, which engage beneath a flange or projecting rib upon opposite edges of the said shank-bar E, such hooked lugs being passed downward through corresponding notches formed through such flanges at the rear portion of the shank-bar E, as shown, the said cutter-block being thereby securely



guided in true position with the pipe to be operated upon by the rotary cutter G, journaled within said sliding cutter-block F, as before described.

5 It will be seen and understood that the screw-threaded adjusting-bar A has at its forward end a circumferential groove, leaving at its extreme end an enlarged portion or head, by which it is connected loosely with the said cutter-block F by means of a vertical T-shaped opening formed through the rear end thereof, and adapted to retain the said adjusting-bar therein, and permit it to be freely turned, so as to slide the said cutter-block F in either direction through the action of the screw-thread C, formed thereon, as above described.

15 I am well aware that pipe-cutters have here-

tofore been provided with a burr-scrapers or chamfering-tool swiveled to the inward end of the set or adjusting screw thereof; therefore I do not broadly claim such, as it is expensive and difficult to manufacture.

Having thus described my invention, what I claim is—

The straight-bar chamfering-tool having a screw-thread, and provided with an adjusting-nut held within the hook end of the cutter against longitudinal movement thereof, substantially as described, as and for the purposes set forth.

EDWIN A. ROBBINS.

Witnesses:

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