(No Model.)

J. H. STEEN.

DEVICE FOR CUTTING, TURNING, AND THREADING METAL.

No. 267,377. Patented Nov. 14, 1882.

Fig. 1.

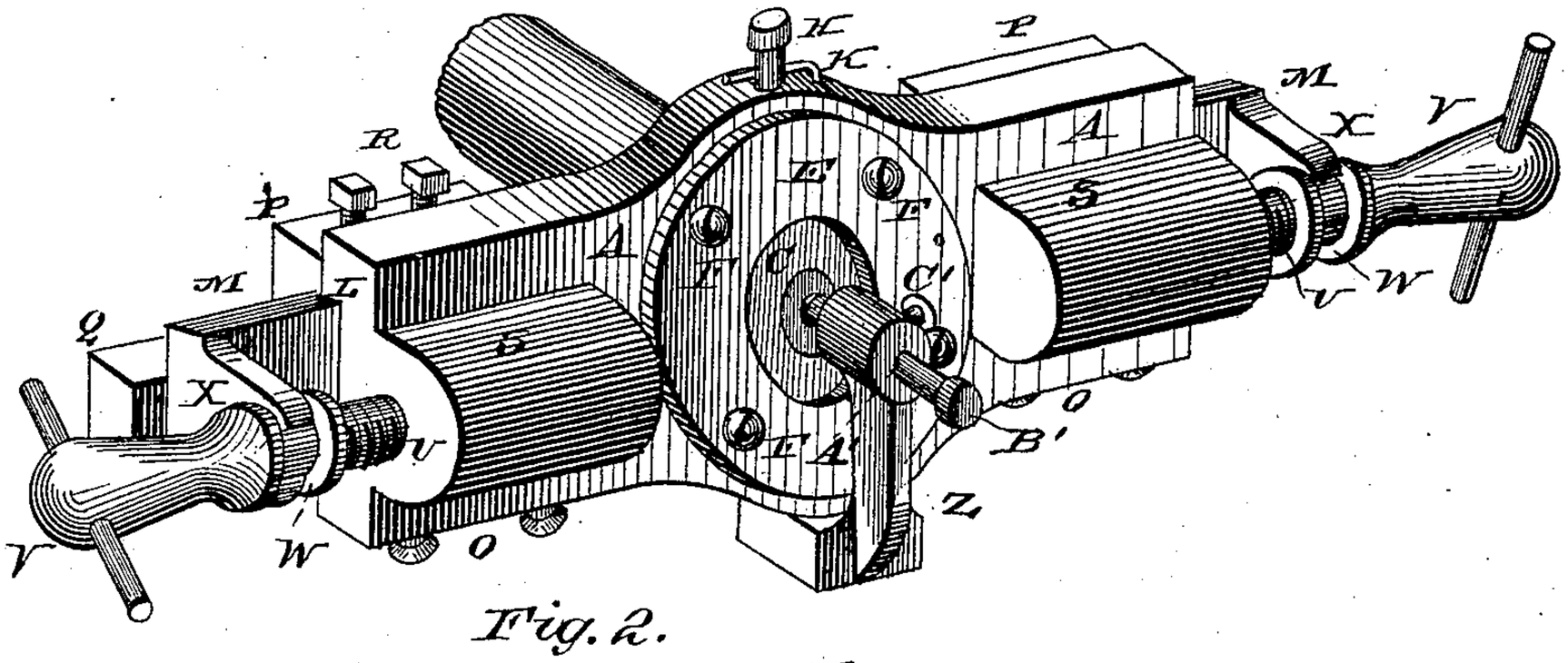


Fig. 2.

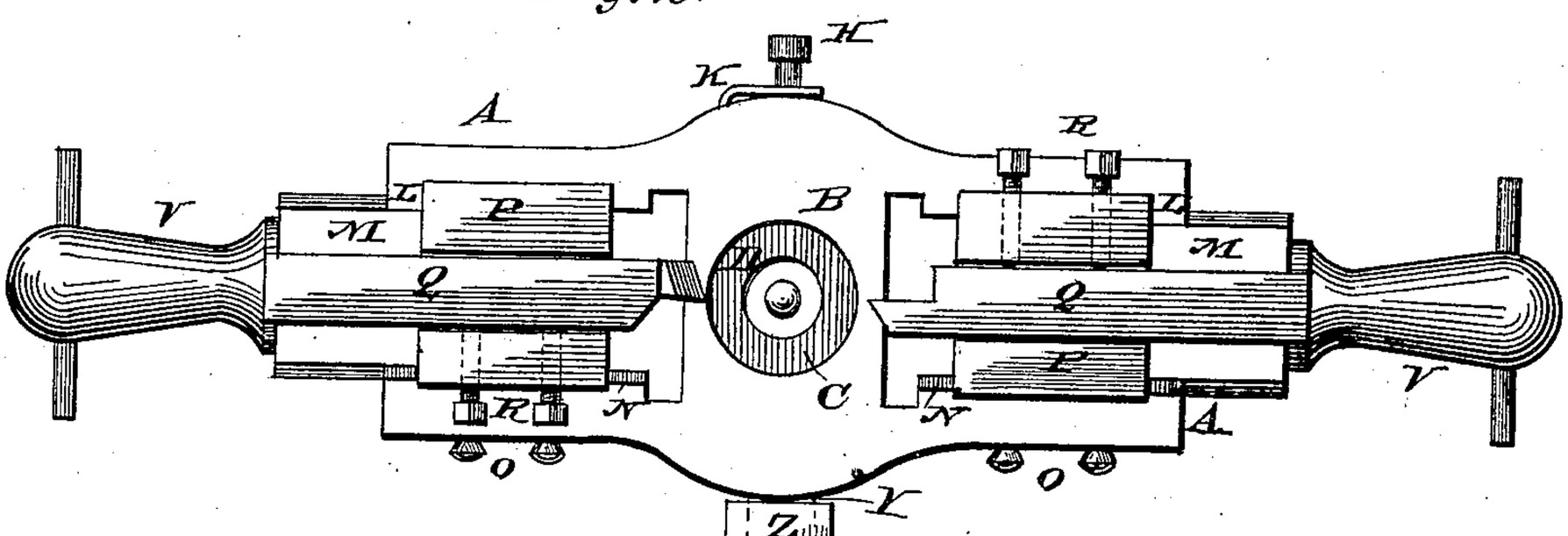


Fig. 3.

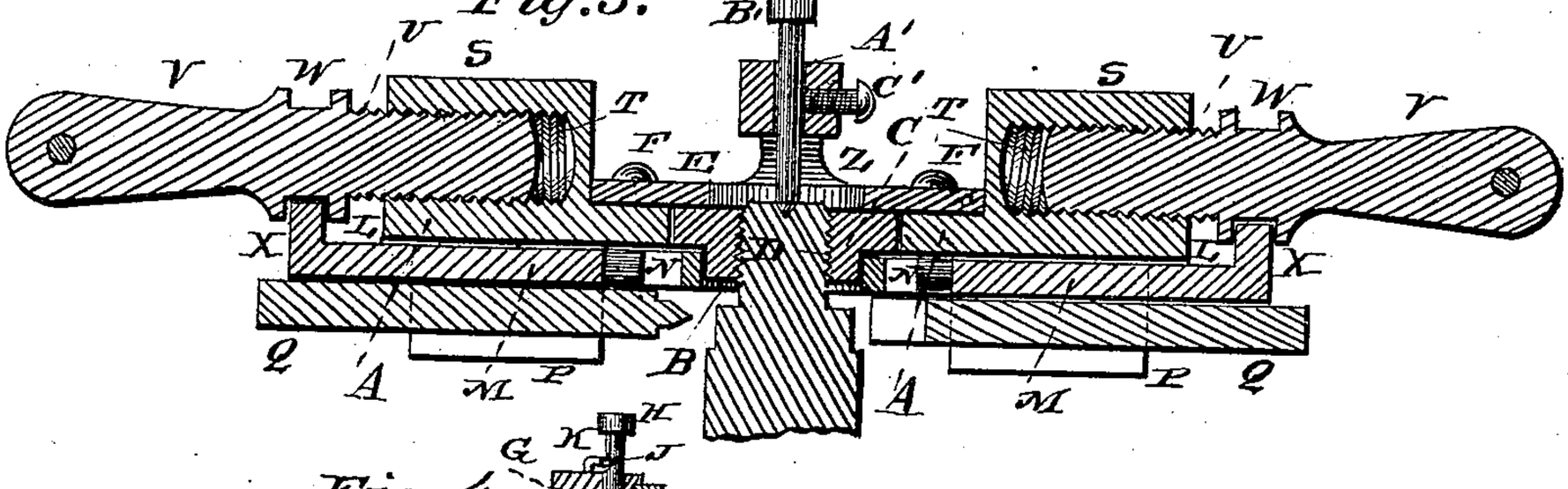
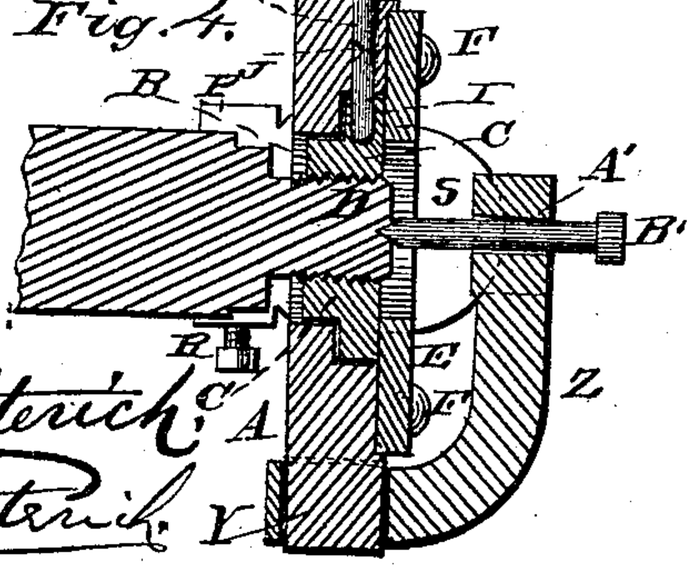


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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DEVICE FOR CUTTING, TURNING, AND THREADING METAL.

SPECIFICATION forming part of Letters Patent No. 267,377, dated November 14, 1882.

Application filed May 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. STEEN, of Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Devices for Cutting, Turning, and Threading Metal; and I 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.

Figure 1 is a perspective view. Fig. 2 is a rear view. Fig. 3 is a longitudinal sectional view. Fig. 4 is a transverse sectional view.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved hand tool or device for turning metal, cutting threads, and doing other work for which a power-lathe is now usually employed; and it consists in certain details of construction which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, A represents a suitable frame, having a central flanged opening, B, in which a bushing, C, having a female thread, D, is fitted and held by a plate, E, secured by screws F. The frame has a transverse opening, G, in which is fitted a pin, H, which may engage a recess, I, in the side of the bushing, so as to keep the latter from turning. Pin H is provided with notches J to receive a spring-catch, K, secured to the side of the frame for the purpose of holding pin I in any position to which it may be adjusted.

The rear side of the frame is provided at both ends with dovetailed grooves L to receive the slides M, between which and one side of the grooves wear-plates N, adjustable by set-screws O, are interposed. The slides M are provided with flanges P, between which the tools Q may be adjusted and held by set-screws R.

Upon the front side of the frame, at both ends of the latter, are formed boxes S, having screw-threaded recesses T to receive the screws U, having handles V, by which they may be manipulated. The shanks of the screws U have annular grooves W to receive the forked ends X of the slides M, which may thus, by turning the screws U, be adjusted or fed forward.

The side of the frame A has a projection, Y, upon which a bracket, Z, may be adjusted, as shown. Said bracket has a perforation, A′, in which a gage-pin, B′, is adjustable, and capable of being held by a set-screw, C′.

The operation of my invention will be readily understood. When used, for instance, for reducing the ends of axle-spindles, the tool is first adjusted upon the threaded end of said axle, (a bushing having an opening of the requisite size being provided.) The pin H is then withdrawn so as to allow the frame to turn upon its bushing, which is done, while at the same time one of the slides carrying a suitable tool is fed forward so as to reduce the collar of the spindle to the requisite size. The pin H is then inserted, so as to cause the bushing to turn with the frame, which is thus fed forward while the thread is being cut. The device is then reversed and employed for cutting the end off the spindle.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with the frame A, having tool-holding slides M and mechanism for feeding the same, of the bushing C, having recess I, the notched pin H, adjustable transversely in the frame A, and the spring-catch K, substantially as herein set forth.

2. The combination of the frame A, having tool-holding slides M and mechanism for feeding the same, the bushing C, the pin H, and the bracket Z, adjustable upon a bracket, Y, on frame A, and having the adjustable gage-pin B′, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAMES HORISON STEEN.

Witnesses:

HORACE SMITH,

HENRY C. JONES.