

(No Model.)

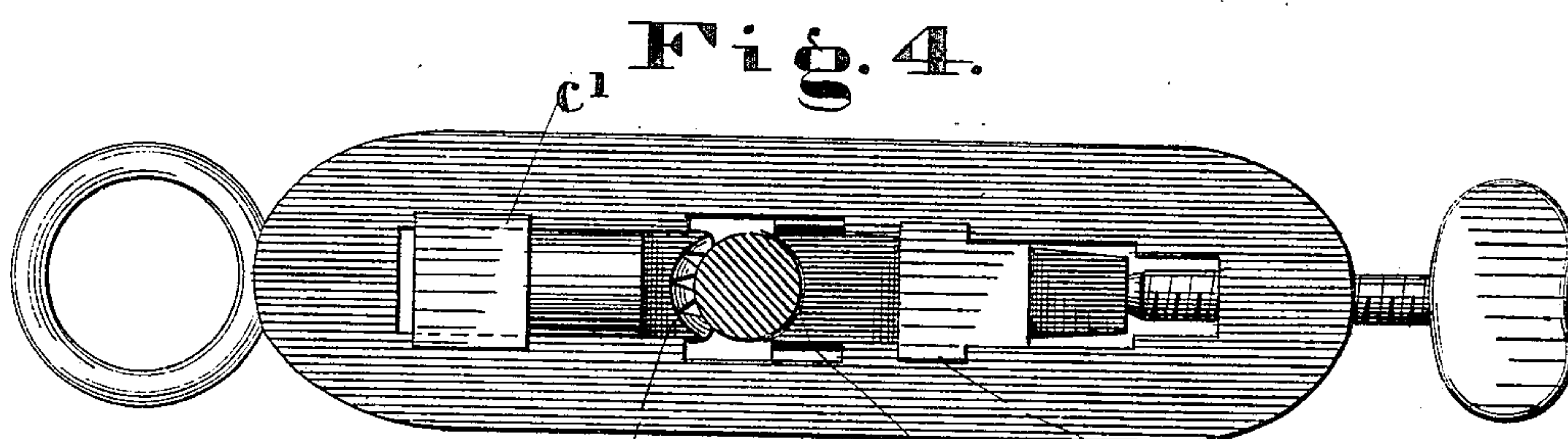
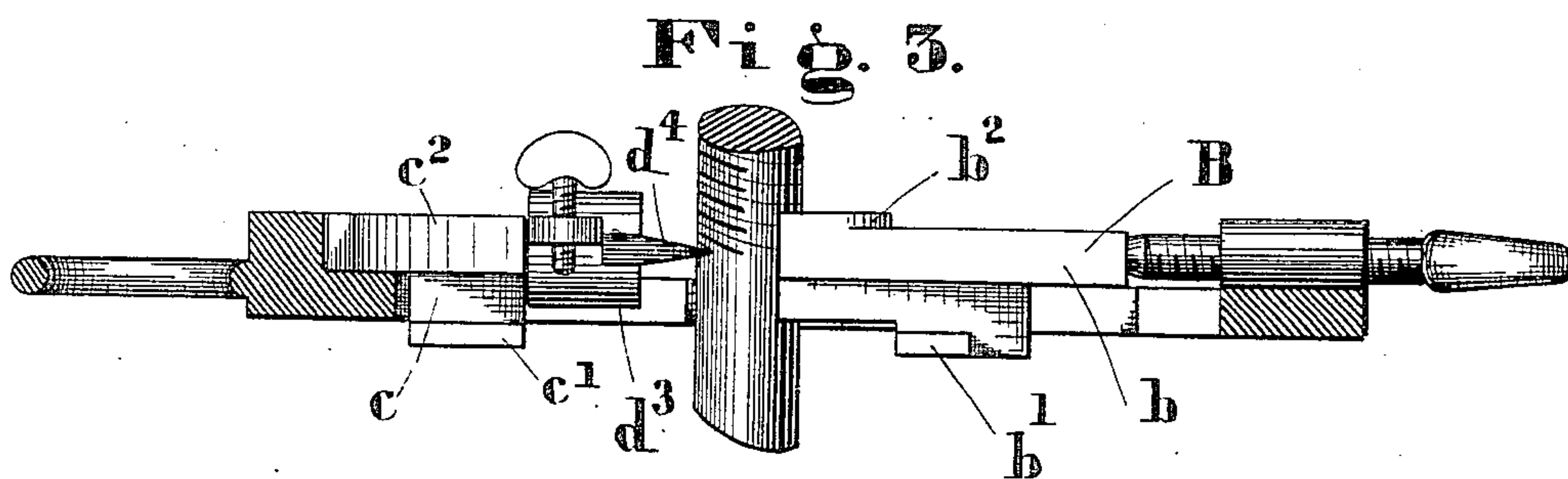
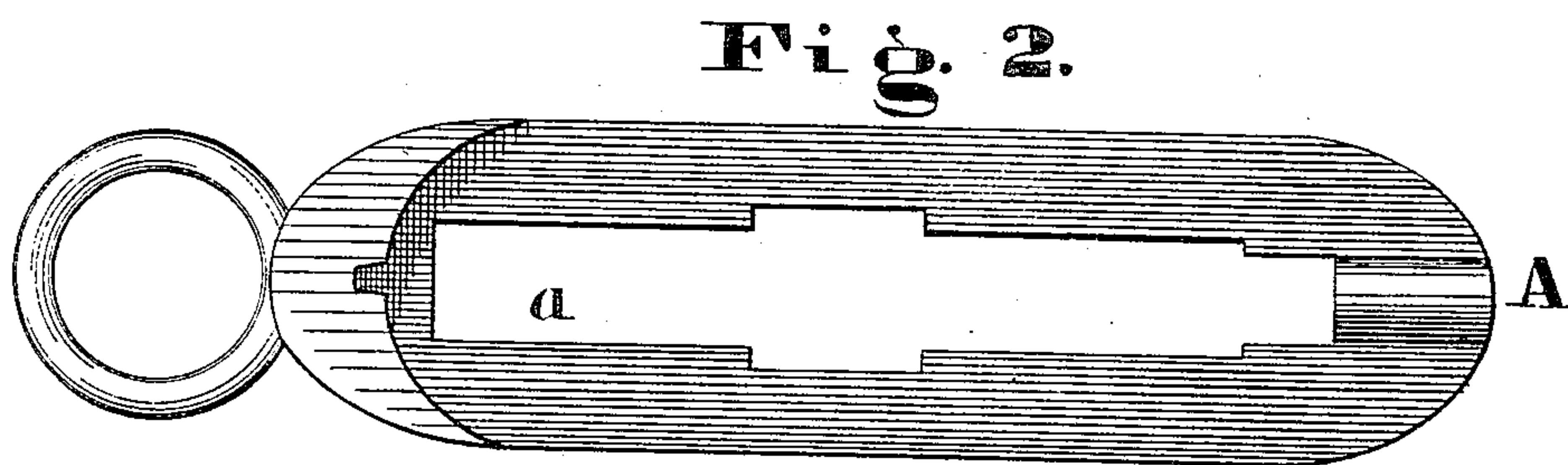
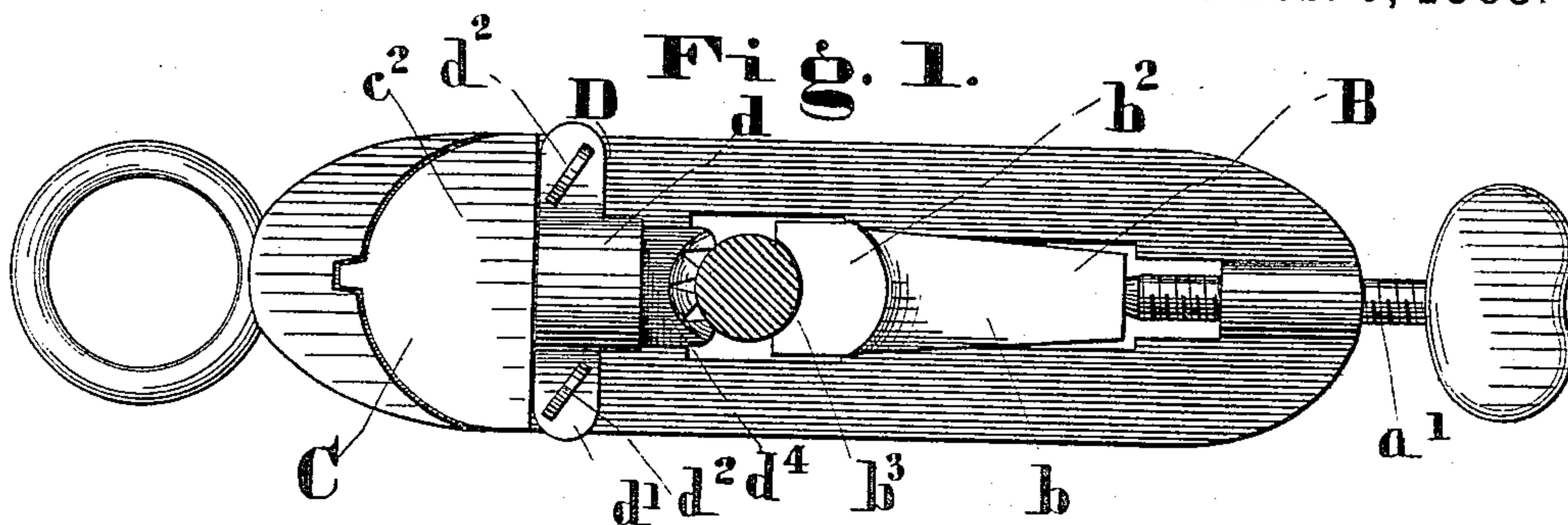
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J. MÜLLER.

SCREW CUTTING DIE.

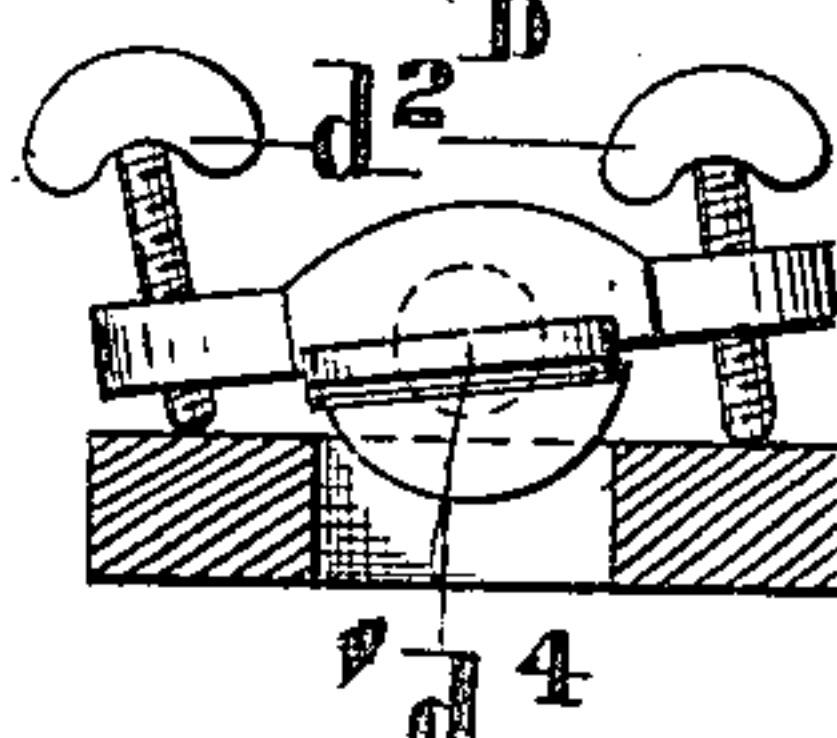
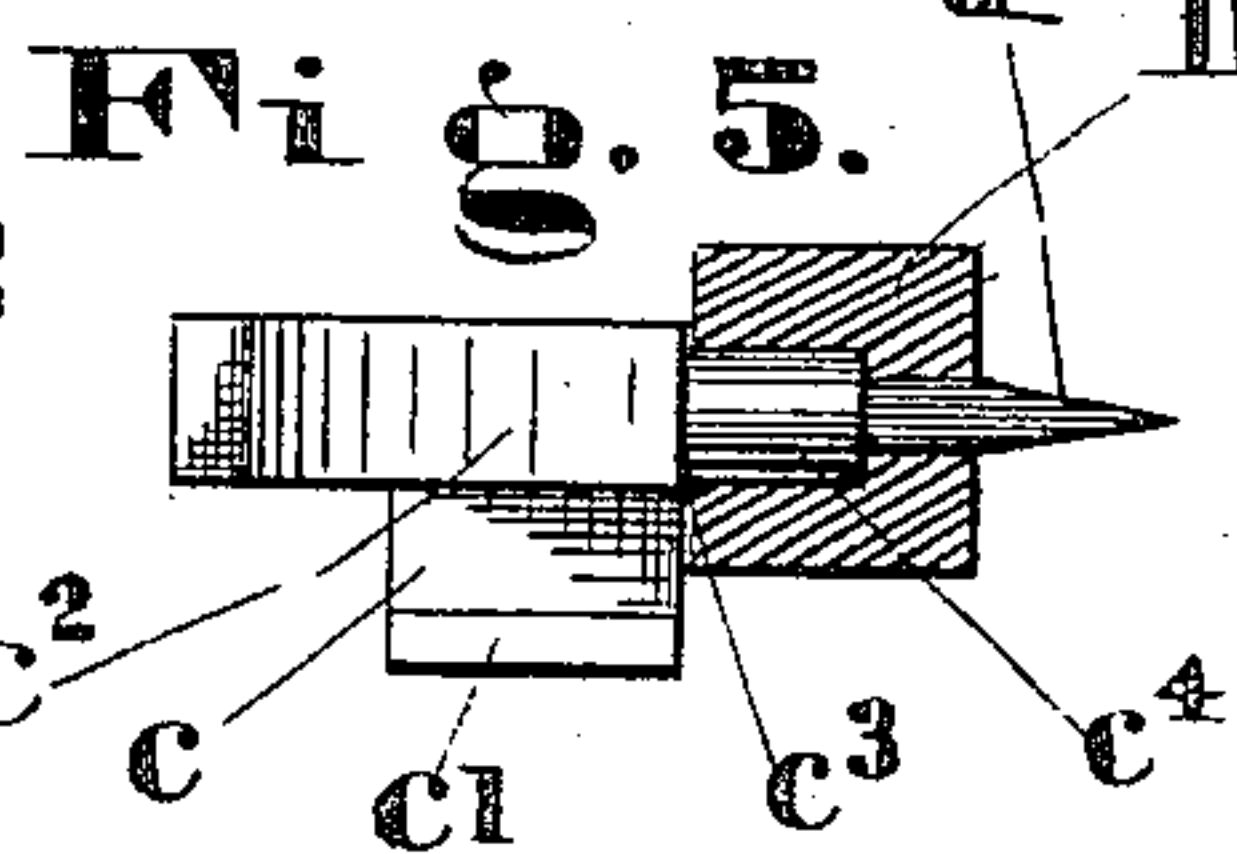
No. 271,652.

Patented Feb. 6, 1883.



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(No Model.)

2 Sheets—Sheet 2.

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SCREW CUTTING DIE.

No. 271,652.

Fig. 7.

Patented Feb. 6, 1883.

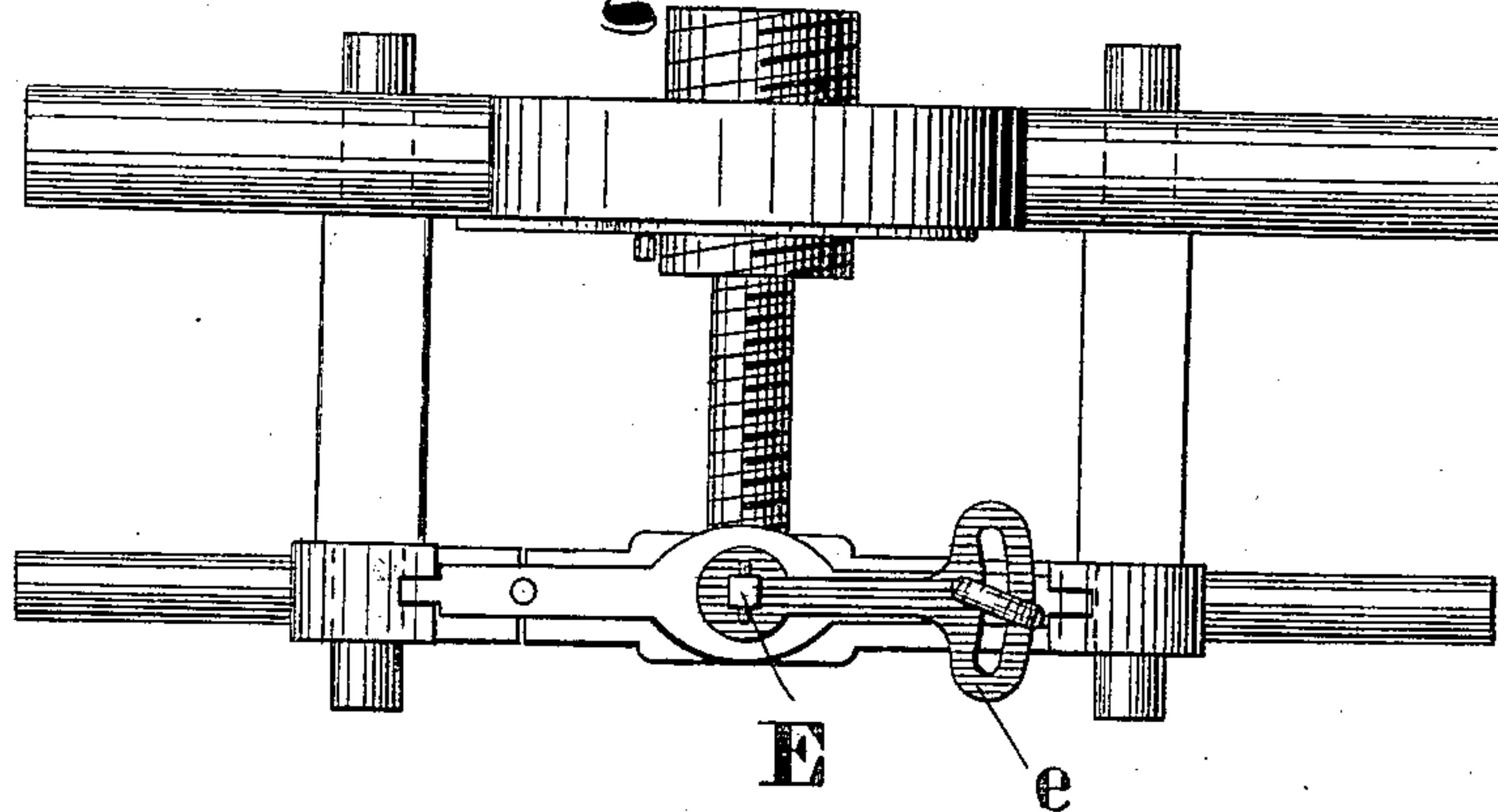


Fig. 8.

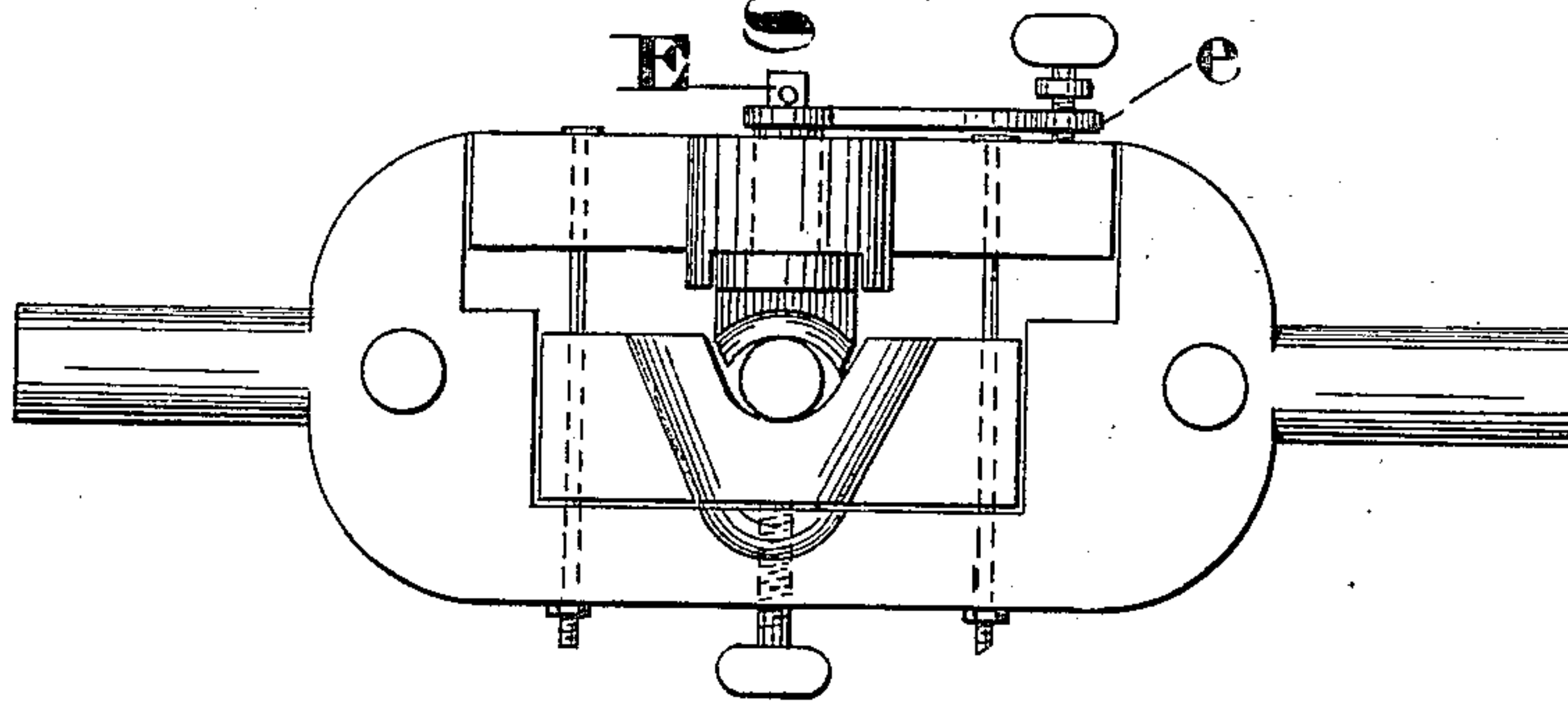
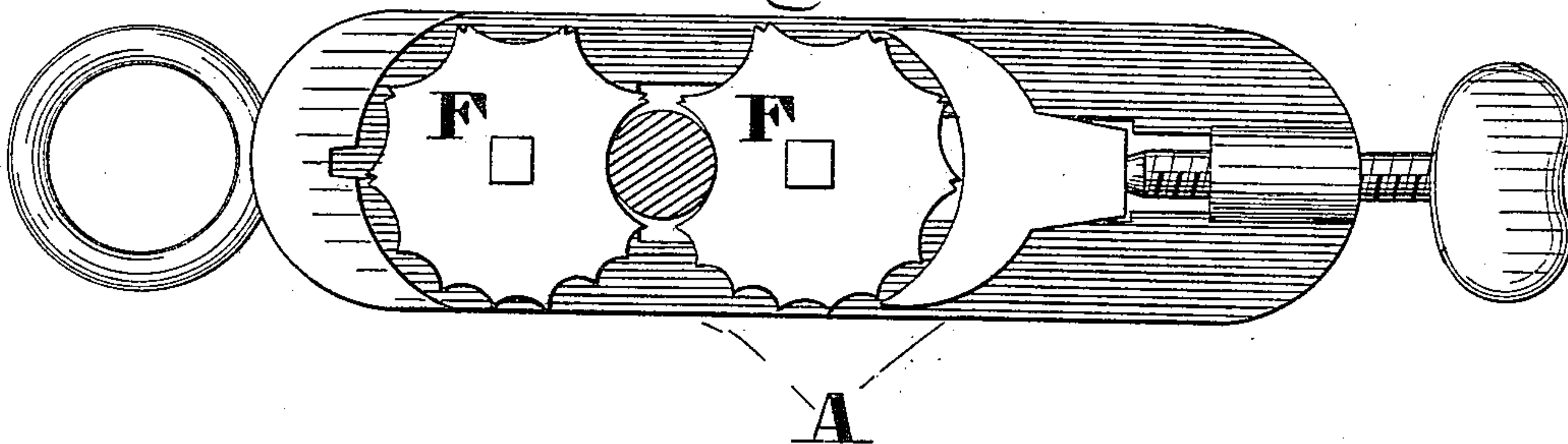


Fig. 9.



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UNITED STATES PATENT OFFICE.

JOSEPH MÜLLER, OF NACOGDOCHES COUNTY, TEXAS.

SCREW-CUTTING DIE.

SPECIFICATION forming part of Letters Patent No. 271,652, dated February 6, 1883.

Application filed September 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MÜLLER, of the county of Nacogdoches and State of Texas, have invented new and useful Improvements in Die-Machines; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention consists mainly in the combination, with a proper stock or foundation, plate, of a die-plate of special construction, adapted to cut either right or left hand threads.

It consists, further, in certain specific details of construction, which, in connection with the foregoing, will be fully described hereinafter.

In the drawings, Figure 1 represents a plan view of my improved die-machine with all the parts in place; Fig. 2, a plan view of the stock or foundation-plate detached; Fig. 3, a side view of the machine complete, with some portions of the same in section; Fig. 4, a plan view of the machine reversed; Fig. 5, a side view of the cutting-die and its attachments, some of the parts being shown in section; Fig. 6, an end view, illustrating the manner of adjusting the cutting-die; Figs. 7 and 8, a modified form of construction, adapted for holding long pipes or bolts; and Fig. 9, a plan view of the stock, with certain circular dies employed in connection therewith.

To enable others skilled in the art to make my improved die-machine and properly use the same, I will proceed to describe fully its construction and the manner of its operation.

A, Fig. 2, represents any suitable stock or foundation-plate, which is provided with the long slot *a*, and with a proper threaded bearing depending from the lower side of the plate at one end, which bearing is adapted to hold the adjusting-screw *a'*, Fig. 1, as shown.

B, Figs. 1 and 3, represents a chuck or brace, having the body or shank portion *b*, with flanges *b' b'*, Figs. 3 and 4, and the head portion *b²*, Figs. 1 and 3, with curved bearing-face *b³*, Figs. 1 and 4, as shown.

C, Fig. 1, also represents a brace or chuck,

having the body portion *c*, Figs. 3 and 5, with flanges *c' c'*, and the head *c²*, Figs. 1 and 3, with bearing-face *c³*, Fig. 5, and pivot-shaft *c⁴*, as shown.

D, Figs. 1 and 5, represents the die-block, consisting of an annular body portion, *d*, Fig. 1, side arms, *d' d'*, with adjusting-screws *d² d²*, and the recessed extension *d³*, for holding the die-plate *d⁴*, as shown. This die-plate, it will be observed in Figs. 3 and 5, is triangular in cross-section, and its curved cutting-edge is provided with serrations, as shown in Figs. 1 and 4.

The chuck B may be readily secured in the long slot of the stock by sliding the same into place, it being held from movement through the plate in a downward direction by the inclined sides of the slot and from movement in an upward direction by the flanges *b' b'*.

The chuck C may be readily secured in place in the long slot of the stock by sliding the same into place, it being held from movement through the plate in a downward direction by the overhanging head *c²* and from movement in an upward direction by the flanges *c' c'*.

The chuck C, when the tool is in use, remains stationary in the stock; but the chuck B is moved longitudinally thereon, by means of the adjusting-screw *a*, into any desired position.

The operation is substantially as follows: The die-plate having been set at the proper angle by means of the adjusting-screws *d² d²*, as indicated in Fig. 6, and the bolt-rod having been inserted in place between the die-plate and the chuck B, as shown in Figs. 1 and 4, the chuck B is properly advanced by the adjusting-screw *a'* until the die-plate bears upon the rod. The tool is then used in the manner well understood. By varying the angle of the die-plate threads, either fine or coarse or right or left, may be cut, as may be desired.

A modification adapted for use in connection with large pipes or bolts is shown in Figs. 7 and 8. In this case the die-plate is secured to a pivot-shaft, E, which is capable of adjustment by means of a crank-lever, *e*, as shown.

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

1. In combination with the stock A, the
5 chucks B and C and die-block D, carrying the
reversible die, as described.

2. In combination with a supporting-stock,
the chuck C, with pivot-shaft, and a die-block

and die adapted to revolve on said shaft, as
described.

This specification signed and witnessed this
6th day of September, 1882.

JOSEPH MÜLLER.

Witnesses:

G. B. CRAIN,

F. MULLER.