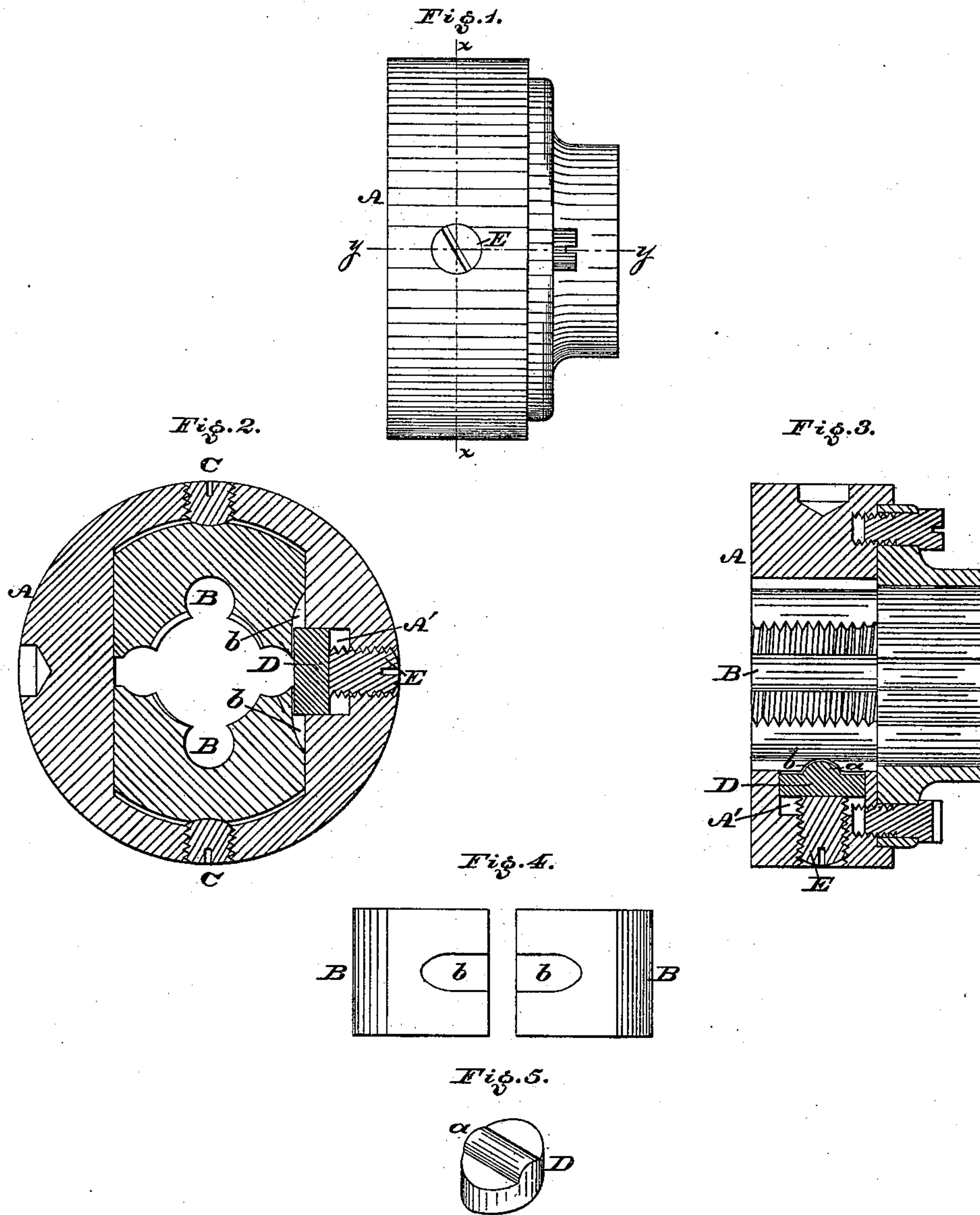


(No Model.)

E. L. HARTMANN.
SCREW CUTTING DIE.

No. 251,435.

Patented Dec. 27, 1881.



Witnesses:
J. P. Grant,
W. F. Kircher

Inventor:
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UNITED STATES PATENT OFFICE.

ERNEST L. HARTMANN, OF TOUGHKENAMON, PENNSYLVANIA.

SCREW-CUTTING DIE.

SPECIFICATION forming part of Letters Patent No. 251,435, dated December 27, 1881.

Application filed May 16, 1881. (No model.)

To all whom it may concern:

Be it known that I, ERNEST L. HARTMANN, a citizen of the United States, residing at Toughkenamon, in the county of Chester, State of Pennsylvania, have invented a new and useful Improvement in Screw-Cutting Dies, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of the die-holder embodying my invention. Fig. 2 is a section thereof in line *x x*, Fig. 1. Fig. 3 is a section thereof in line *y y*, Fig. 1. Fig. 4 is a side view of the dies removed, and Fig. 5 is a perspective view of the disk detached.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of means for retaining and guiding thread-cutting dies in the head or holder, as will be hereinafter fully set forth.

Referring to the drawings, A represents the head or holder, and B the dies fitted thereinto and held adjustable relatively to each other by means of screws C passed through opposite places of the head and bearing against the dies. In the widened portion of the wall of the holder, at a right angle to the screws C C, is an opening, A', in which is fitted a disk, D, the inner face of which is pointed or ribbed, as at *a*, and adapted to freely enter the groove *b*, formed on the side of each die B, the two grooves being continuous. Bearing against the back of said disk D is a screw, E, which is fitted to the wall of the holder and appears on the outer side thereof for purposes of operation. The opening A' for the disk D is pref-

erably larger than that for the screw E, or it may be said to be a countersink on the inner face of the widened portion of the holder, so that the disk requires to be inserted from within the space or way designed for the dies. The disk D is placed in the opening A' to full extent, and the dies B are properly located. The screw E is then rotated, so that the rib *a* enters the grooves *b* of the two dies, and it will be seen that while said rib acts as a guide on which the dies uniformly slide when moved to and from each other for purposes of adjustment, the displacement of the dies from the holder is prevented, since the rib projects beyond the inner face of the portion of the holder containing the disk D and enters the grooves *b*, and so serves to retain the dies in the holder.

I am aware that it is not new to employ a screw-pressed piece of metal for retaining the dies, said piece being countersunk in the head and engaging with grooves in the sides of the dies. This, therefore, I do not broadly claim; but,

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

A die-holder provided with a disk, D, formed with a retaining and guiding face or rib, *a*, screw E, which holds the disk in position, and the adjusting-screws C C for the dies, said screws being at a right angle to the screw E, substantially as and for the purpose set forth.

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