

No. 848,401.

PATENTED MAR. 26, 1907.

C. F. SCHULTIS.

DIE STOCK.

APPLICATION FILED MAR. 29, 1906.

Fig. 1.

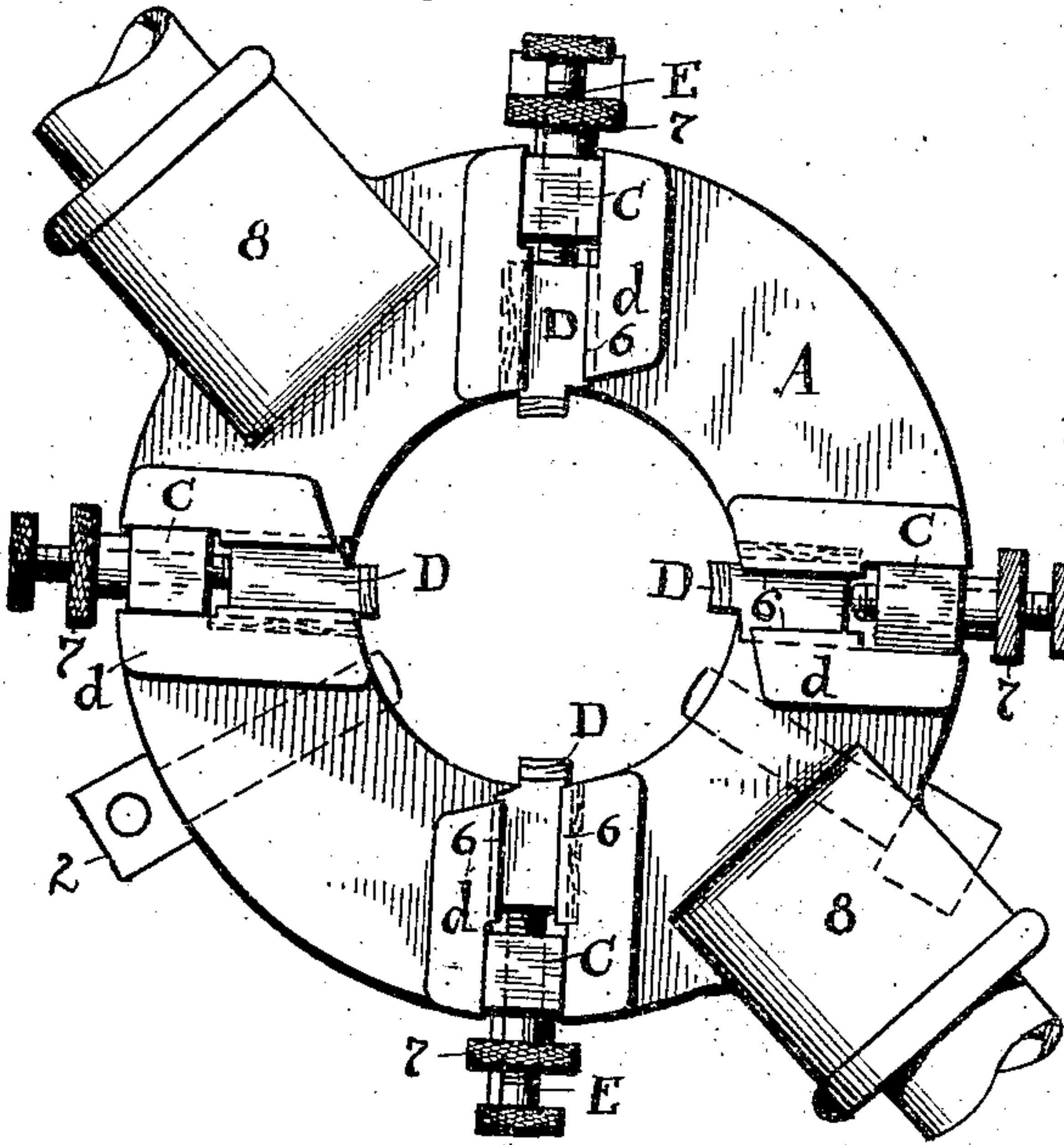


Fig. 2.

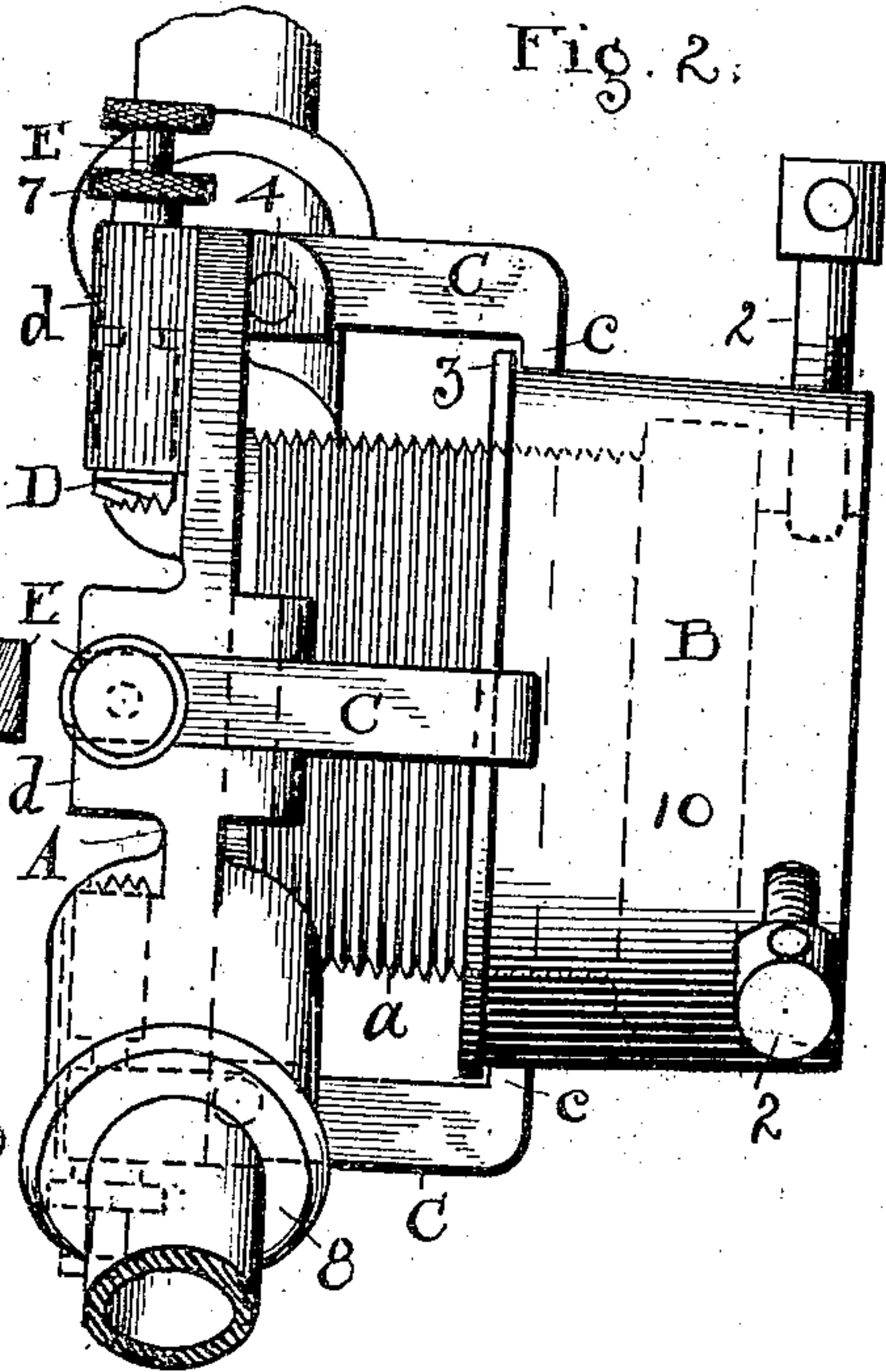
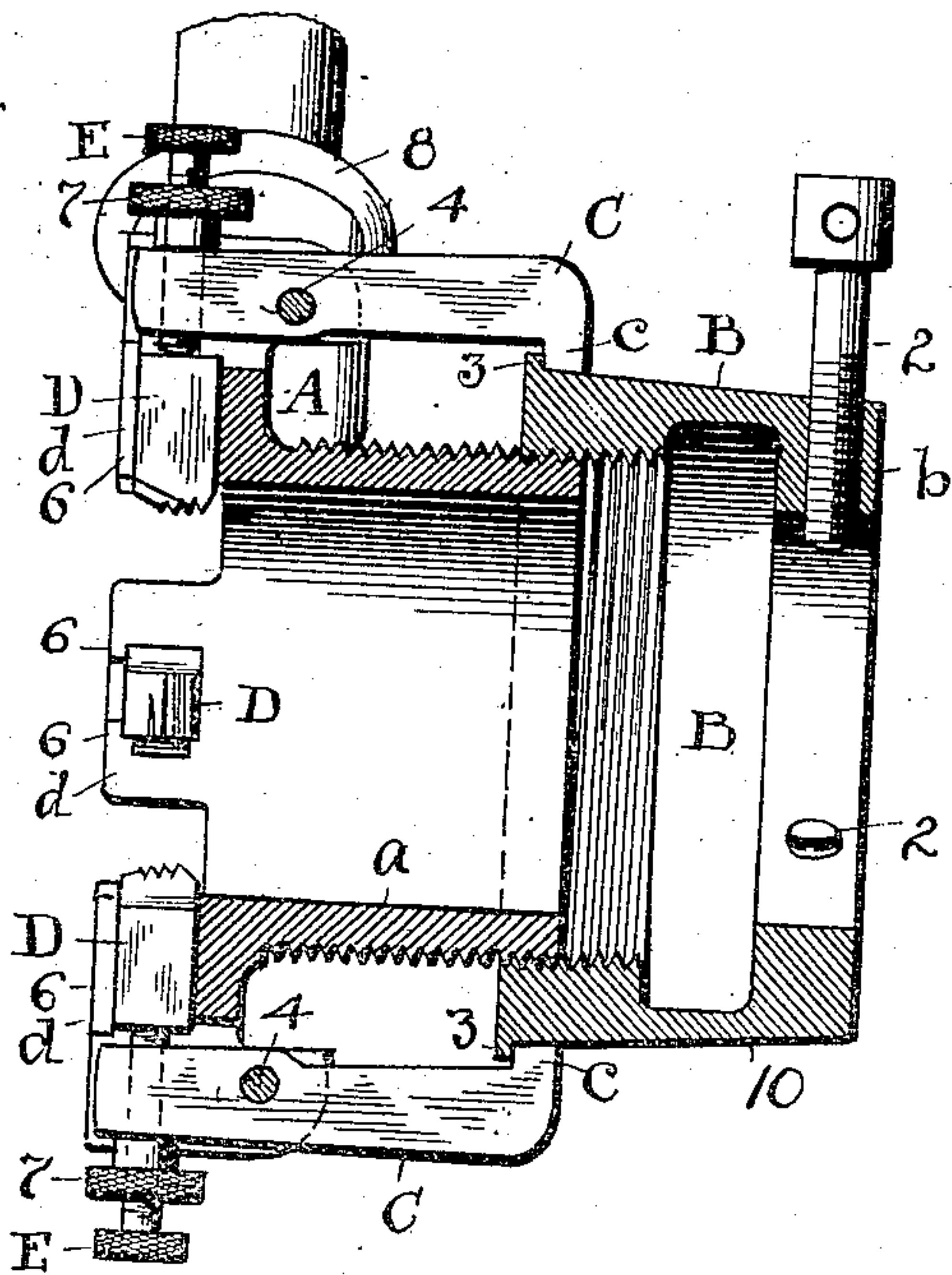


Fig. 3.



ATTEST.

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# UNITED STATES PATENT OFFICE.

CHARLES F. SCHULTIS, OF WARREN, OHIO, ASSIGNOR TO JAMES B. KING,  
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## DIE-STOCK.

No. 848,401.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed March 29, 1906. Serial No. 308,714.

*To all whom it may concern:*

Be it known that I, CHARLES F. SCHULTIS, a citizen of the United States, residing at Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Die-Stocks; and I do 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.

My invention relates to improvements in dies for threading pipes and other metal tubes; and the invention consists in the construction and combination of parts substantially as shown and described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a central plan view of the die, and Fig. 2 is a side view thereof. Fig. 3 is a sectional elevation of the die front to rear.

As thus shown, A represents the head of the device, adapted to carry the dies D and engaged with the work-supporting holder B by its threaded hub *a*, threaded its entire depth externally and on which the work supporter or holder is engaged and adapted to be used, as will hereinafter appear. Said part B has an internally-narrowed outer ring portion *b*, through which are inserted a series, say, of three set-screws 2, adapted to engage and secure the work, and at its inner end there is an outer flange 3, over which the lips *c* on rocking arms C are adapted to engage, especially when said arms are forced and held inward at their longer ends as pressure comes from the direction of the dies D against their shorter ends, the pivots of said arms being at 4, about the edge of the said carrying-head, back of and inward from the boxes or guide-chambers *d* for the dies. Said boxes or chambers are radially disposed and have confining ribs or flanges 6 on both sides along their outer edges to engage over the side edges of the dies and confine them in working position, and the short ends of arms C project to the top of said boxes at their rear and the rear of the boxes are open, so that the dies may bear against said arms directly or by set-screws E. These screws pass through the said short ends of arms C, so as to be in position to bear against the rear ends of dies

D, and lock-nuts 7 on said screws serve to fix and hold their adjustments. The die-carrying head A also is provided with threaded handle-sockets 8, to which operating-handles may be applied, and when the die is being used the head A is rotated by means of these handles and the dies are operatively engaged upon the work, which projects through from the rear and is held fast by holder B and its work-locking screws 2.

Externally the work-holder has a perfectly-smooth surface 10, tapered from its inner to its outer edge or end, and the said arms C bear on this smooth tapered surface by their lips or projections *c* and travel thereon during the operation. Furthermore, the pivot 4 is about two-thirds the length of arms C from the longer end, and hence if a piece of work, as a pipe or tube, has a certain taper on which it is to be threaded or is to be threaded to a certain taper the surface 10 of the work-holder must taper twice as much to accommodate the action of said arms to the work through the dies. Hence the set-screws E can be set at the beginning of a job and the arms C and tapered surface 10 will then automatically take care of the balance and the pipe will have a correspondingly-tapered thread cut thereon. Different work-holders with varying tapers are used, according to the taper wanted.

What I claim is—

A die-stock having a head with an externally-threaded hub and die-boxes open at both ends, a work-holder threaded on said hub and having an outwardly-projecting flange about its inner end and a beveled surface, and arms pivoted nearest one end on said head and having their short ends exposed at the rear of said die-boxes and their longer ends adapted to engage said flange and limit the movement of said head and work-holder and to traverse said beveled surface.

In testimony whereof I sign this specification in the presence of two witnesses.

CHARLES F. SCHULTIS.

Witnesses:

R. B. MOSER,  
JAMES B. KING.