

W. E. MELHORN.
SCREW CUTTING MECHANISM.

Patented Oct. 6, 1885

Fig. 1.

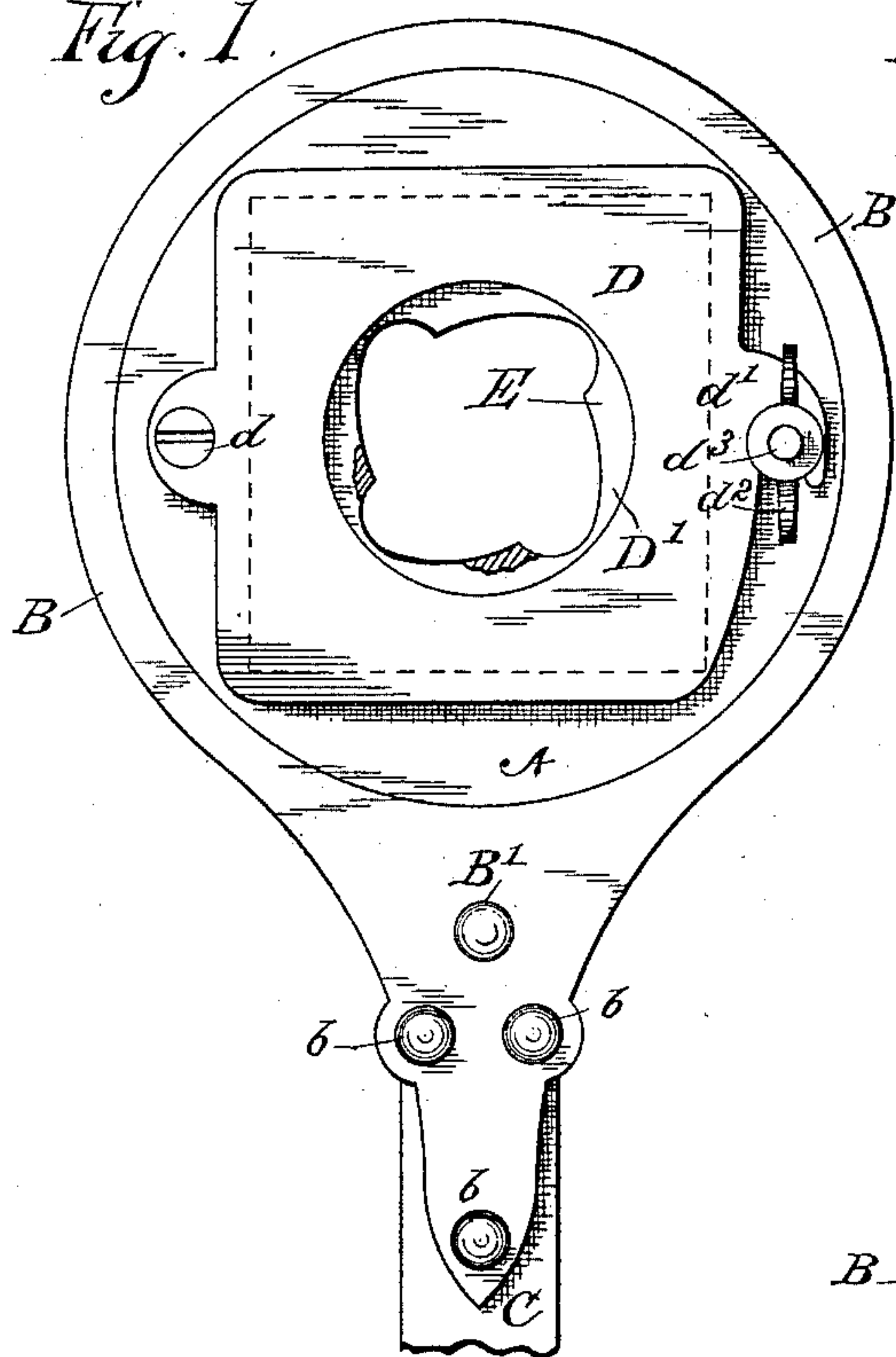


Fig. 2.

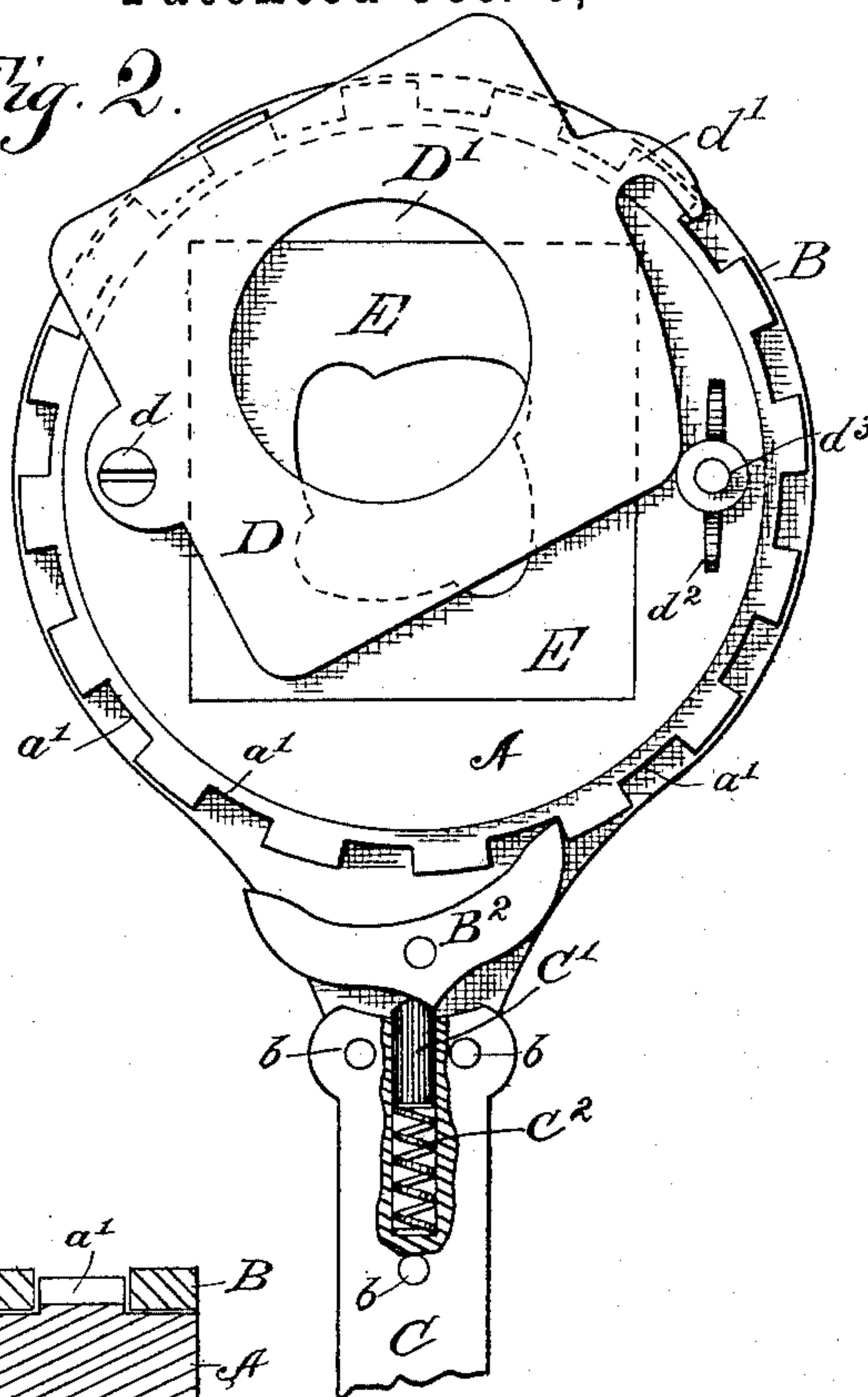


Fig. 3.

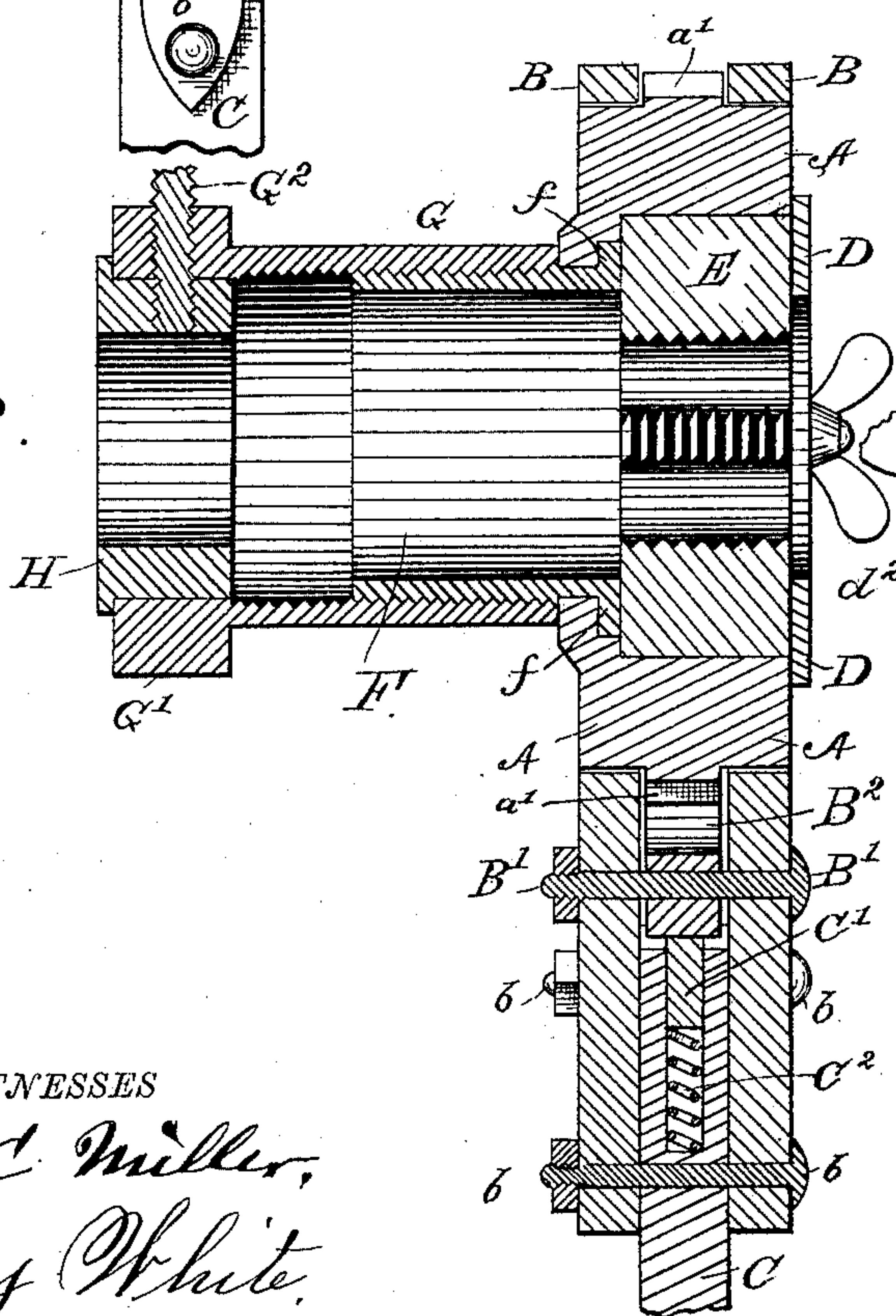
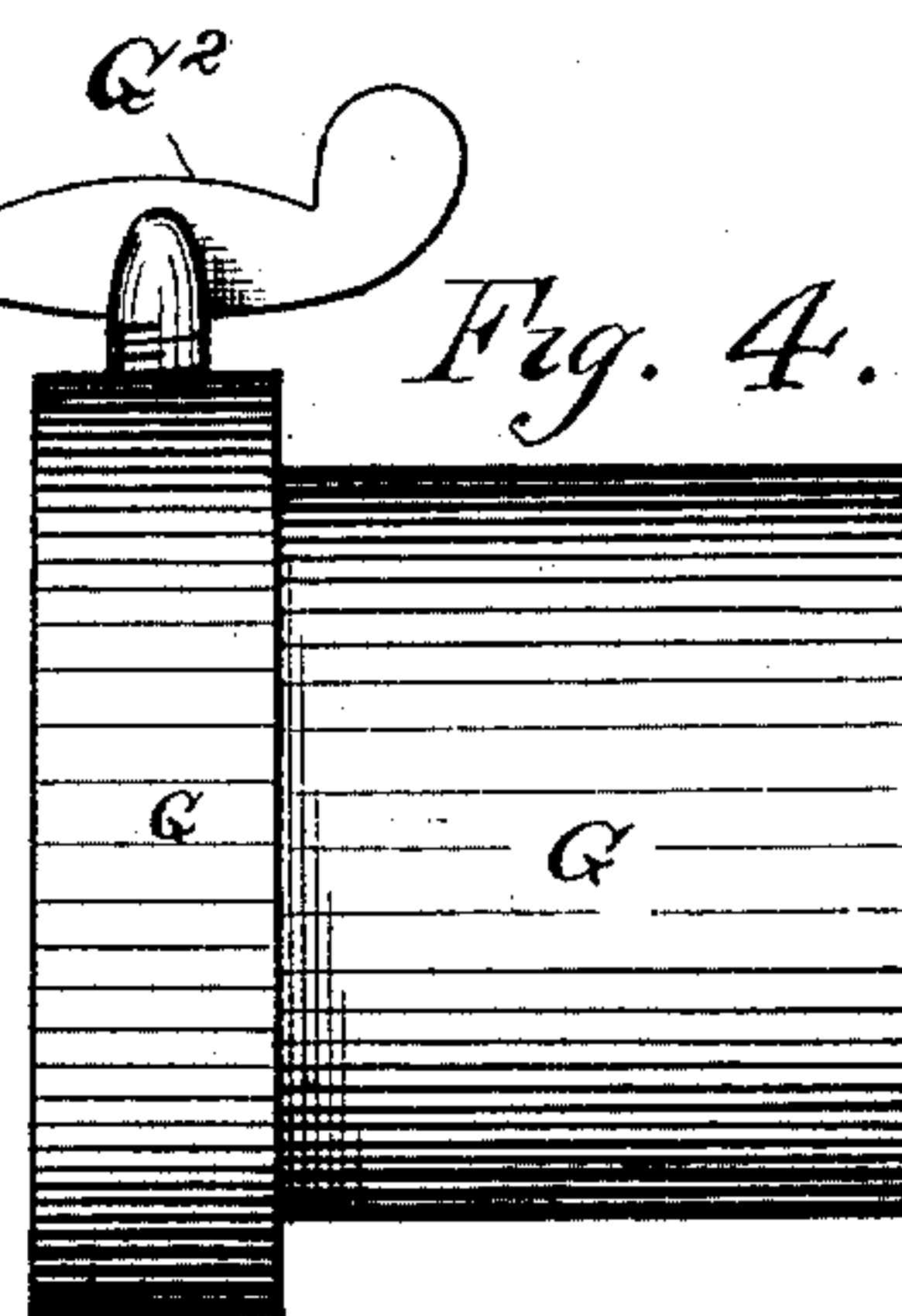


Fig. 4.



WITNESSES
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SCREW-CUTTING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 327,959, dated October 6, 1885.

Application filed July 18, 1885. Serial No. 171,936. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. MELHORN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Screw-Cutting Mechanism, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The object of this improvement is a ratchet mechanism adapted for cutting screws on pipes or rods of different sizes. These results are attained by the means illustrated in the drawings herewith filed as part hereof, in
15 which the same letters of reference denote the same parts in the different views.

Figure 1 is a plan view of a screw-cutting appliance embodying the features of my improvement. Fig. 2 is a representation of the
20 same, showing parts broken away and parts differently adjusted, for the purpose of more fully illustrating the construction and relative position of the same. Fig. 3 is a longitudinal vertical section. Fig. 4 is a detail.

25 A is a sleeve provided at its rim with ratchet-detents a' , and recesses at its edges for the reception of rings B, having integral extensions B' , through which they are secured by means of rivets or bolts $b\ b\ b$ to a lever or
30 operating handle, C, which is provided at its inner end with a socket for the reception of a spring, C^2 , which actuates a bevel-pointed latch, C' , for the pawl B^2 , which will act in opposite directions, as the same is adjusted
35 to bring the central point thereof on one side or the other of the point of the latch C' .

The body of the sleeve A is provided on one side with a recess for the reception of an ordinary screw-cutting die, E, and on the
40 opposite side with a circular opening for the reception of a sleeve, F, having a flange, f , which fits in a corresponding recess in the

sleeve A, and secures the proper relative position of the sleeve F, which is provided on its outside with a screw-thread for the attachment of a correspondingly-threaded sleeve, G, having a lateral extension, G' , at its outer end, and a set-screw, G^2 , for securing the connection of an inner sleeve, H, the inner circumference of which may be of different dimensions, for a purpose hereinafter set forth.

D is a plate provided with a central circular opening, D' , and pivoted at d to the sleeve A.

d^2 is a thumb-screw affixed to the sleeve A for securing the position of the hinged plate D, as shown in Fig. 1, by being set firmly down on the integral hooked extension d' of the plate D. The object of the plate D is to secure the connection of the screw-cutting die E with the sleeve A.

By removing the die E and sleeve H and replacing them with others of greater or less corresponding size the mechanism may be applied to cutting threads on pipes or rods of different sizes, during the operation of which the sleeve H will act as a guide in conjunction with the die E, and hold the pipe or rod in proper line with the die.

Having explained the features of my improvement, what I claim as new, and desire to secure by Letters Patent, is—

In combination, the operating-handle C B, provided with pawl mechanism $B^2\ C'\ C^2$, the sleeve A, recessed as shown, and provided with die E, the sleeve F, having flange f , the sleeve G, detachable sleeve H, and hinged plate D, all constructed and arranged to operate as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM E. MELHORN.

Witnesses:

D. D. WESCHLER,
JACOB WESCHLER.