

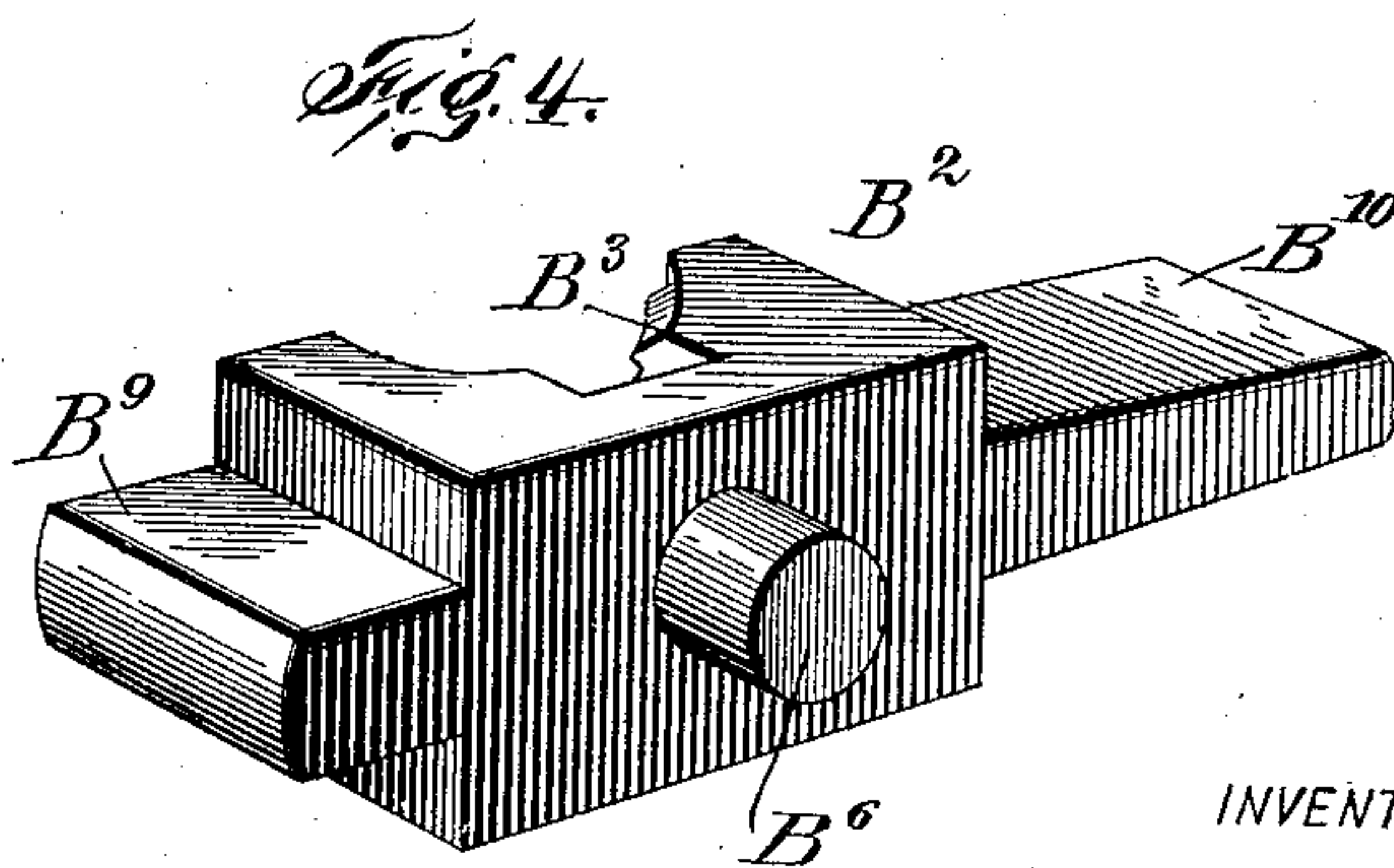
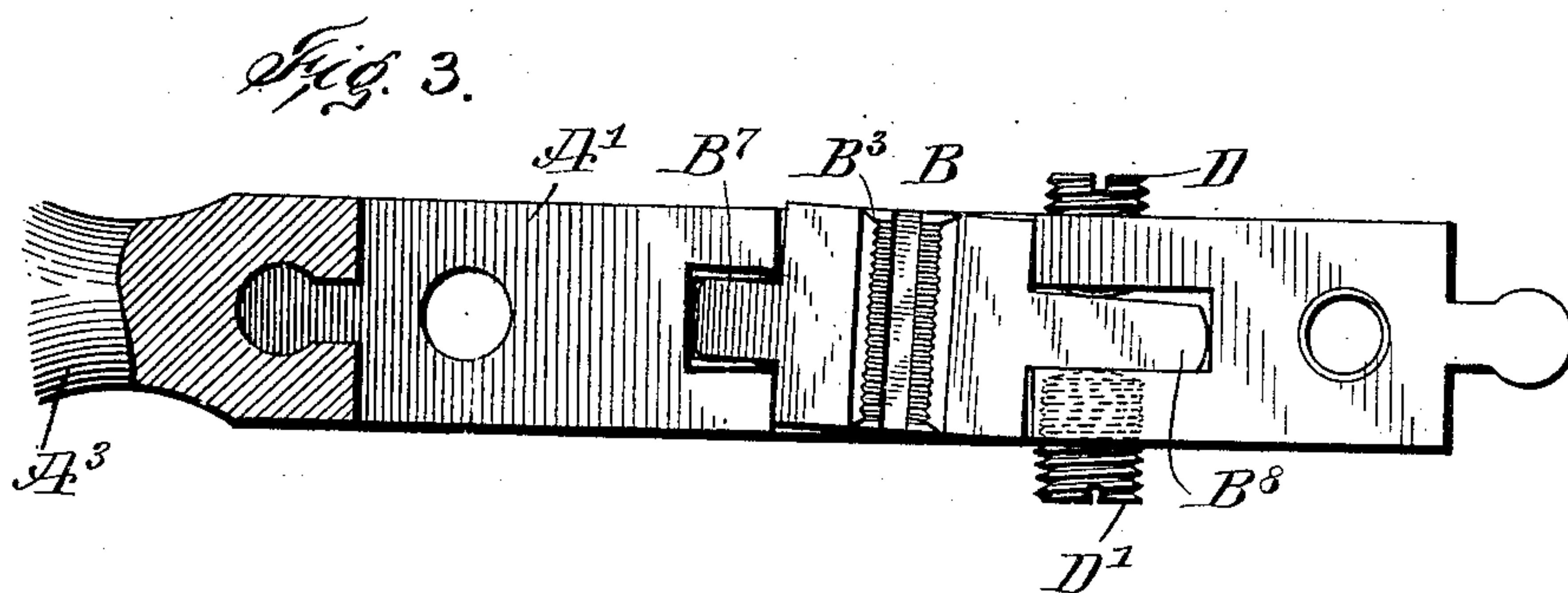
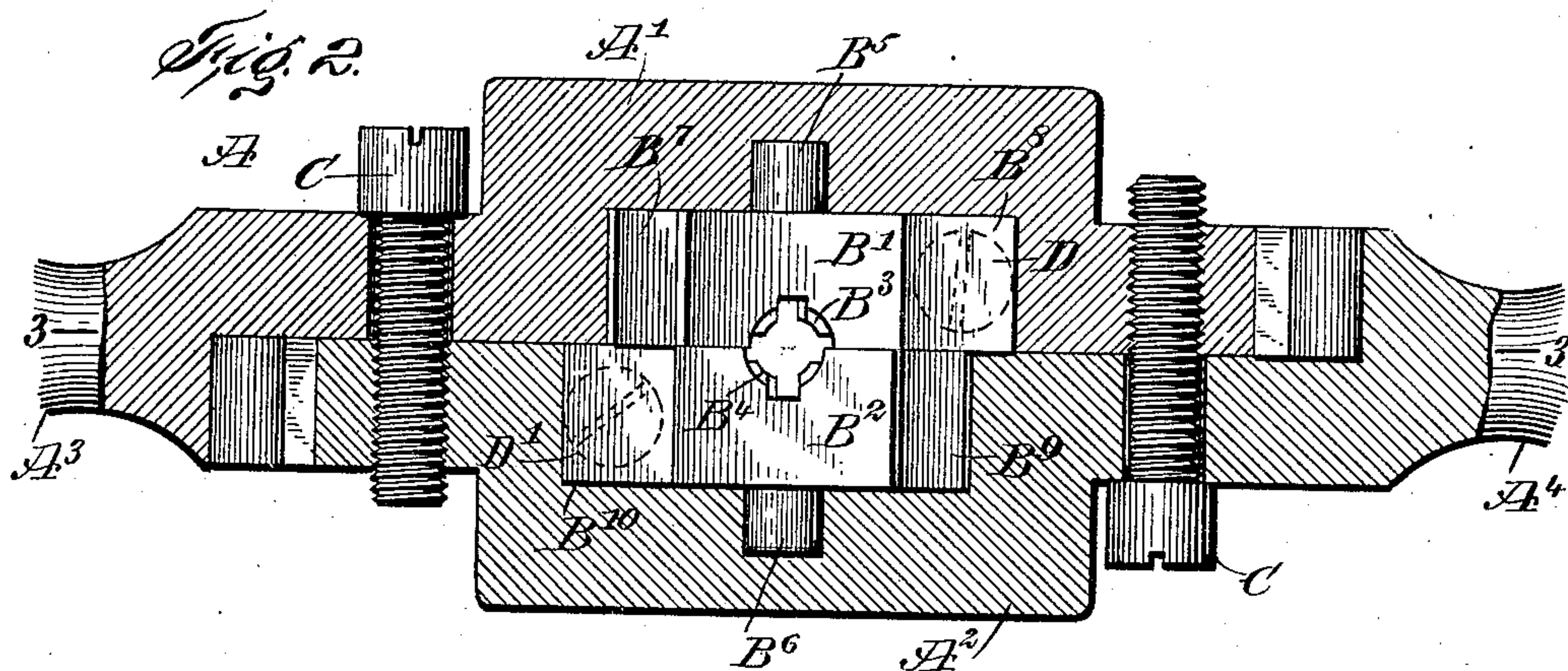
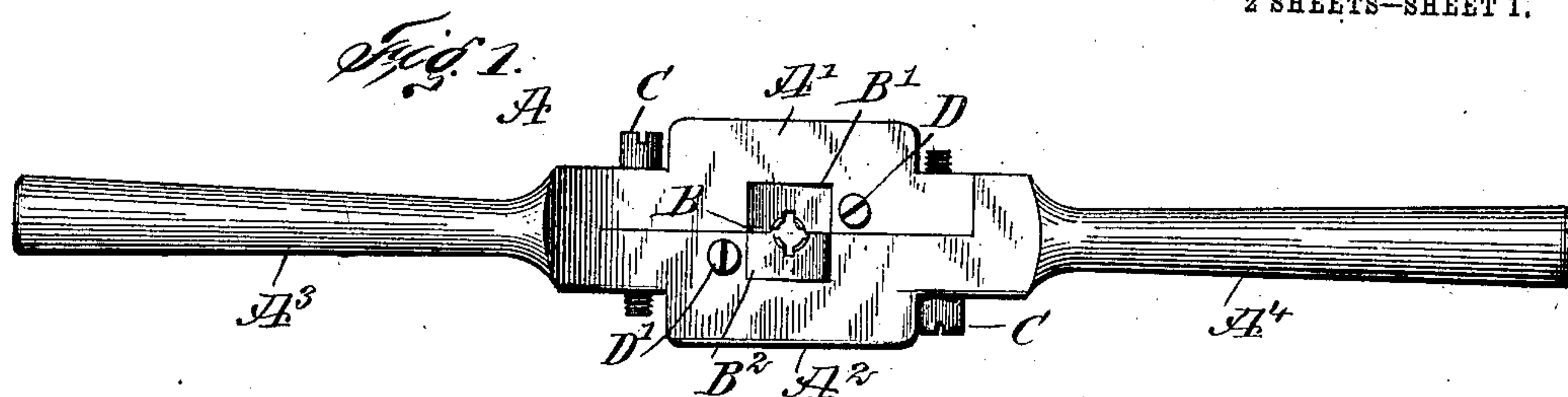
No. 828,150.

PATENTED AUG. 7, 1906.

N. TOBIAS.
STOCK AND DIE.

APPLICATION FILED OCT. 14, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

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2 SHEETS—SHEET 2.

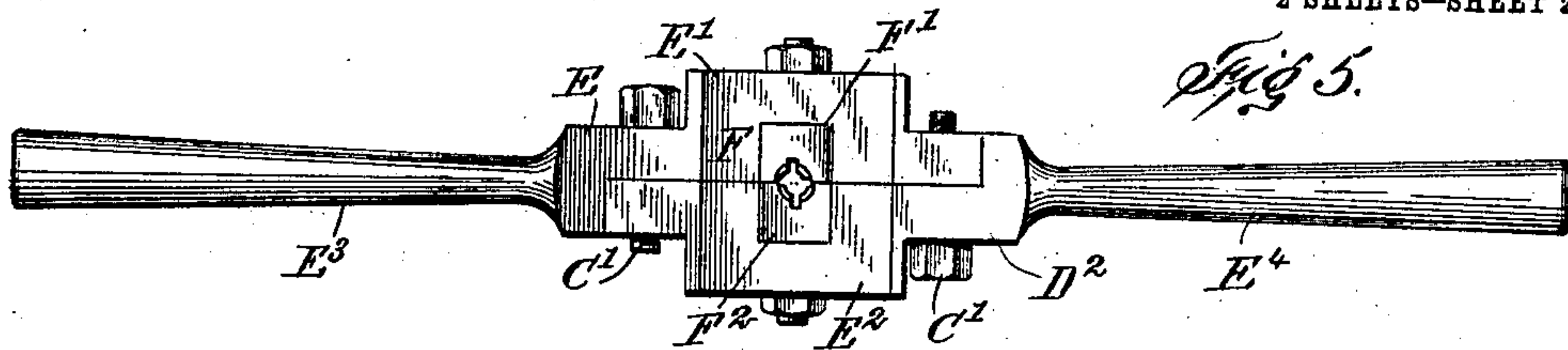


Fig. 5.

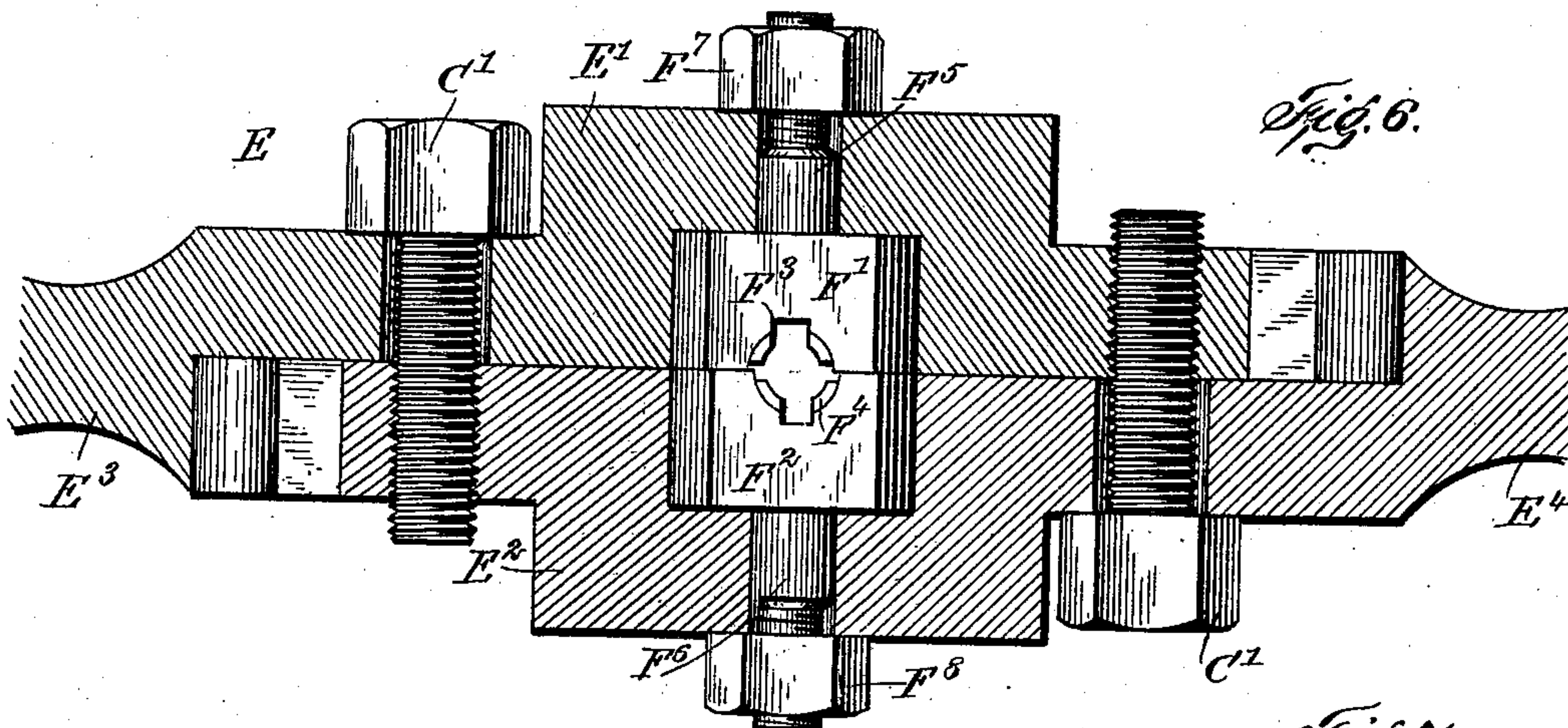


Fig. 6.

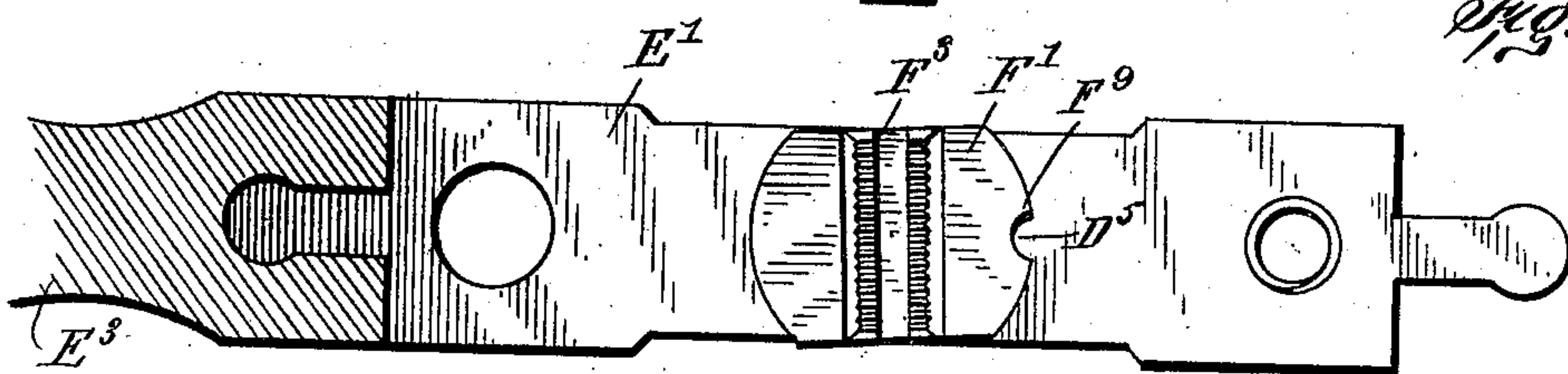


Fig. 7.

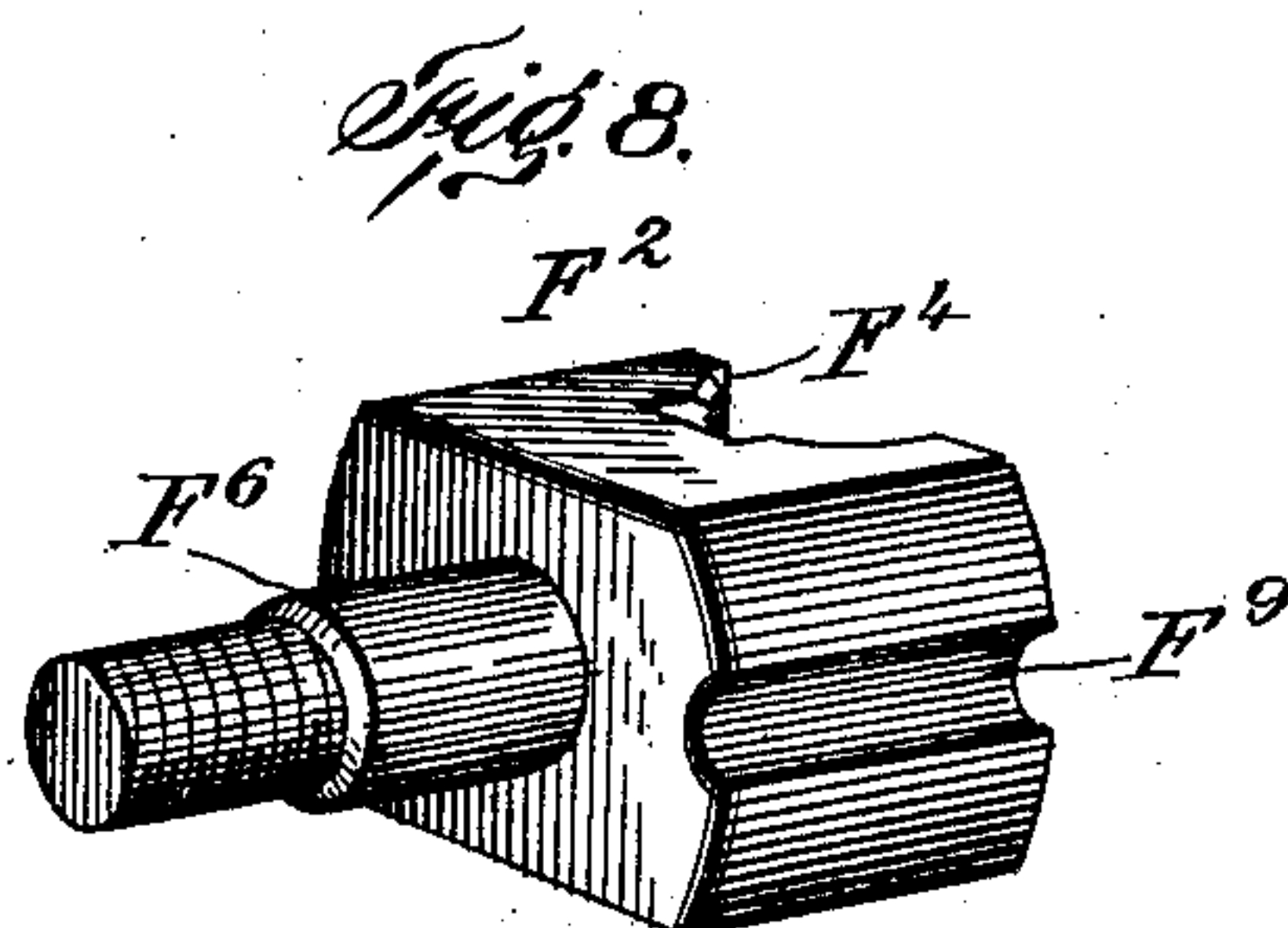


Fig. 8.

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UNITED STATES PATENT OFFICE.

NEUMAN TOBIAS, OF KINGSTON, JAMAICA.

STOCK AND DIE.

No. 828,150.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed October 14, 1905. Serial No. 282,755.

To all whom it may concern:

Be it known that I, NEUMAN TOBIAS, a subject of the King of Great Britain, and a resident of Kingston, Jamaica, West Indies, have invented a new and Improved Stock and Die, of which the following is a full, clear, and exact description.

The invention relates to metal tools and implements; and its object is to provide a new and improved stock and die arranged to permit convenient and accurate cutting of right and left hand single threads of the same or different pitch.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improvement arranged for cutting left-hand threads. Fig. 2 is an enlarged sectional plan view of the same. Fig. 3 is a sectional side elevation of one of the stock-sections and its die-section on the line 3 3 in Fig. 2. Fig. 4 is a perspective view of one of the die-sections. Fig. 5 is a plan view of a modified form of the improvement arranged for cutting right-hand threads. Fig. 6 is an enlarged sectional plan view of the same. Fig. 7 is a sectional side elevation of one of the stock-sections and its die-section, and Fig. 8 is a perspective view of one of the die-sections.

The implement shown in Figs. 1, 2, 3, and 4 consists, essentially, of a stock A and a die B held in the said stock, the latter being made in sections A' and A², having handles A³ and A⁴ and fastened together by suitable screws C. The stock A is formed with the usual aperture for receiving the die B, and the latter is made in sections B' and B², provided at their opposite faces with the usual thread-cutting teeth B³ and B⁴. The die-sections B' and B² are provided at their outer faces with transversely-extending trunnions B⁵ and B⁶, mounted to turn in suitable bearings formed in the corresponding stock-sections A' and A², as plainly illustrated in Fig. 2, the axis of the said trunnions B⁵ and B⁶ coinciding and standing at a right angle to the axis of the die-sections to permit of swinging the die-sections B' and B² in an up or down direction to bring the thread-cut-

ting teeth B³ and B⁴ into such relative positions as to permit cutting either right-hand or left-hand threads.

In order to allow adjustment of the die-sections B' and B² and to hold the same in the adjusted position, the following device is provided: The die-section B' is provided with sidewise-extending arms B⁷ and B⁸, fitting loosely in corresponding recesses formed in the stock-section A', and the die-section B² is likewise provided with sidewise-extending arms B⁹ and B¹⁰, fitting loosely into corresponding recesses arranged on the stock-section A². By reference to Fig. 2 it will be noticed that the side arms B⁷ and B⁹ are located on opposite sides of their corresponding stock-sections A' and A². Each of the side arms B⁸ and B¹⁰ is engaged on opposite faces by set-screws D and D' screwing in the corresponding section A' and A² to allow of swinging the corresponding die-section into either of two positions to permit of cutting either right-hand or left-hand threads.

In the modified form illustrated in Figs. 5, 6, 7, and 8 the stock E is formed of the sections E' and E², fastened together by screws C' and provided with handles E³ and E⁴. The die F, I make in sections F' and F², mounted to swing in the stock-sections E' and E², the said die-sections being provided on their opposite faces with the usual teeth F³ and F⁴ for cutting left or right hand threads. The die-sections F' and F² are also provided with transversely-extending trunnions F⁵ and F⁶, mounted to turn in suitable bearings arranged in the stock-sections E' and E², and on the outer threaded ends of the said trunnions F⁵ and F⁶ screw nuts F⁷ and F⁸ against the outer faces of the stock-sections E' and E² to securely hold the die-sections F' and F² against turning after they are adjusted to the desired position.

As shown in Figs. 7 and 8, each of the die-sections F' and F² has circular sides fitting correspondingly-shaped side walls in the recesses in which they are mounted to permit the sections to readily turn whenever it is desired to adjust the dies for cutting left-hand or right-hand threads. In order to limit the turning motion of each die-section F' and F², one side thereof is provided with a transversely-extending recess F⁹, fitting upon a stop-lug D⁵, formed on the corresponding stock-section E' and E². By loosening the nuts F⁷ and F⁸ the operator can readily turn the die-sections F' and F² so as to bring the

cutting-teeth F^3 and F^4 in such relative position that the die will cut either left-hand or right-hand threads. When the desired adjustment has been made, the nuts F^7 and F^8 are screwed up to securely lock the die-sections F^1 and F^2 in place. The dies D and F having cutting-teeth of different pitch may be readily exchanged for the ones used at the time to allow of using the same stock for the sets of dies for cutting right-hand or left-hand single threads of different pitch.

The implement is very simple and durable in construction and is not liable to get easily out of order.

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

1. A stock and die comprising a sectional stock, each section having a transverse die-receiving recess with openings in the ends and side thereof, and a die comprising a section fitting in each of the recesses, each of said sections having a trunnion fitting in the opening in the side wall of the recess, and lugs engaging the openings in the end walls, one of said lugs being of greater length than the other, and said longer lug projecting in opposite direction from the corresponding lug on the other section, and set-screws trav-

ersing the stock and engaging each side of said longer lugs, whereby to swing the sections upon the trunnions to vary the pitch and direction of the thread, the shorter lug by its engagement with the wall of the recess forming a support for the adjacent side of the die-section.

2. A stock and die, comprising a sectional stock, each section having a transverse die-receiving recess with openings in the ends and side thereof, and a die comprising a section fitting in each of the recesses, each of said sections having a trunnion fitting in the opening in the side of the recess, and lugs engaging the openings in the ends, and set-screws traversing the stock and engaging each side of one of the lugs whereby to swing the section upon the trunnion to vary the pitch and direction of the thread, the other lug by its engagement with the walls of the recess forming a support for the adjacent side of the die-section.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NEUMAN TOBIAS.

Witnesses:

CALEB ALEXANDER BUCKLEY,
EMANUEL ROMERO.