

No. 740,222.

PATENTED SEPT. 29, 1903.

F. M. BOSS.
NUT LOCK.

APPLICATION FILED APR. 8, 1903.

NO MODEL.

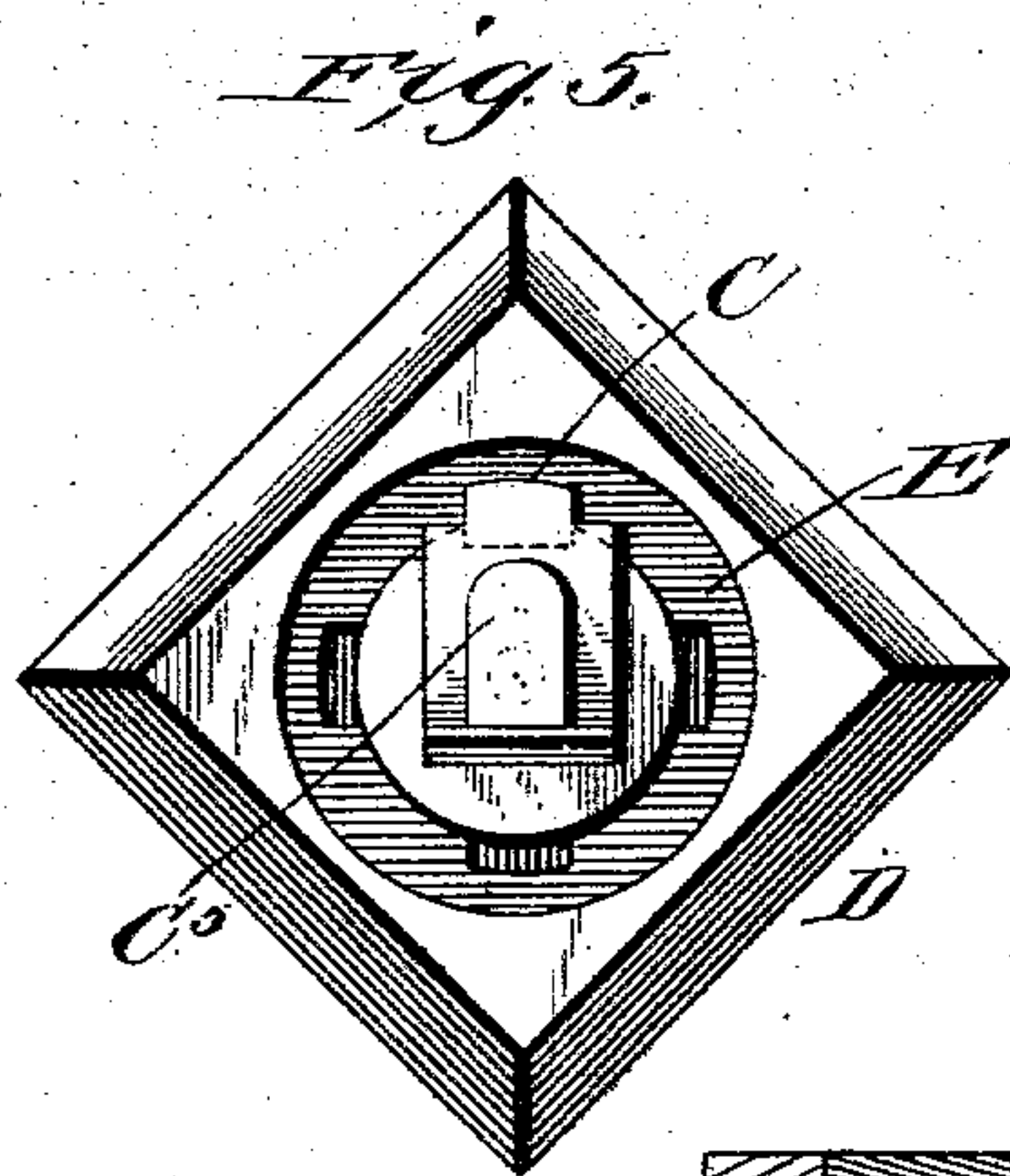
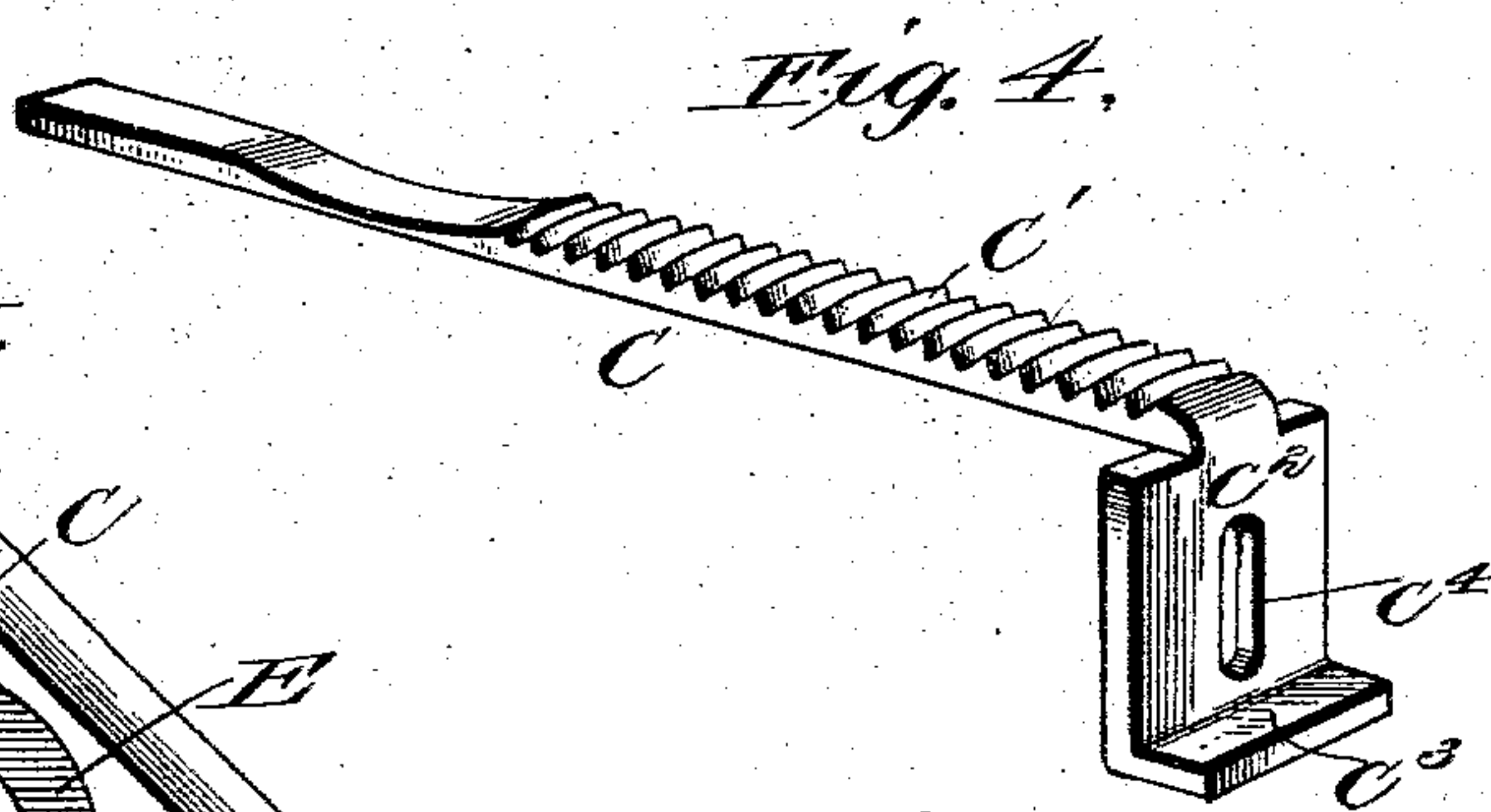
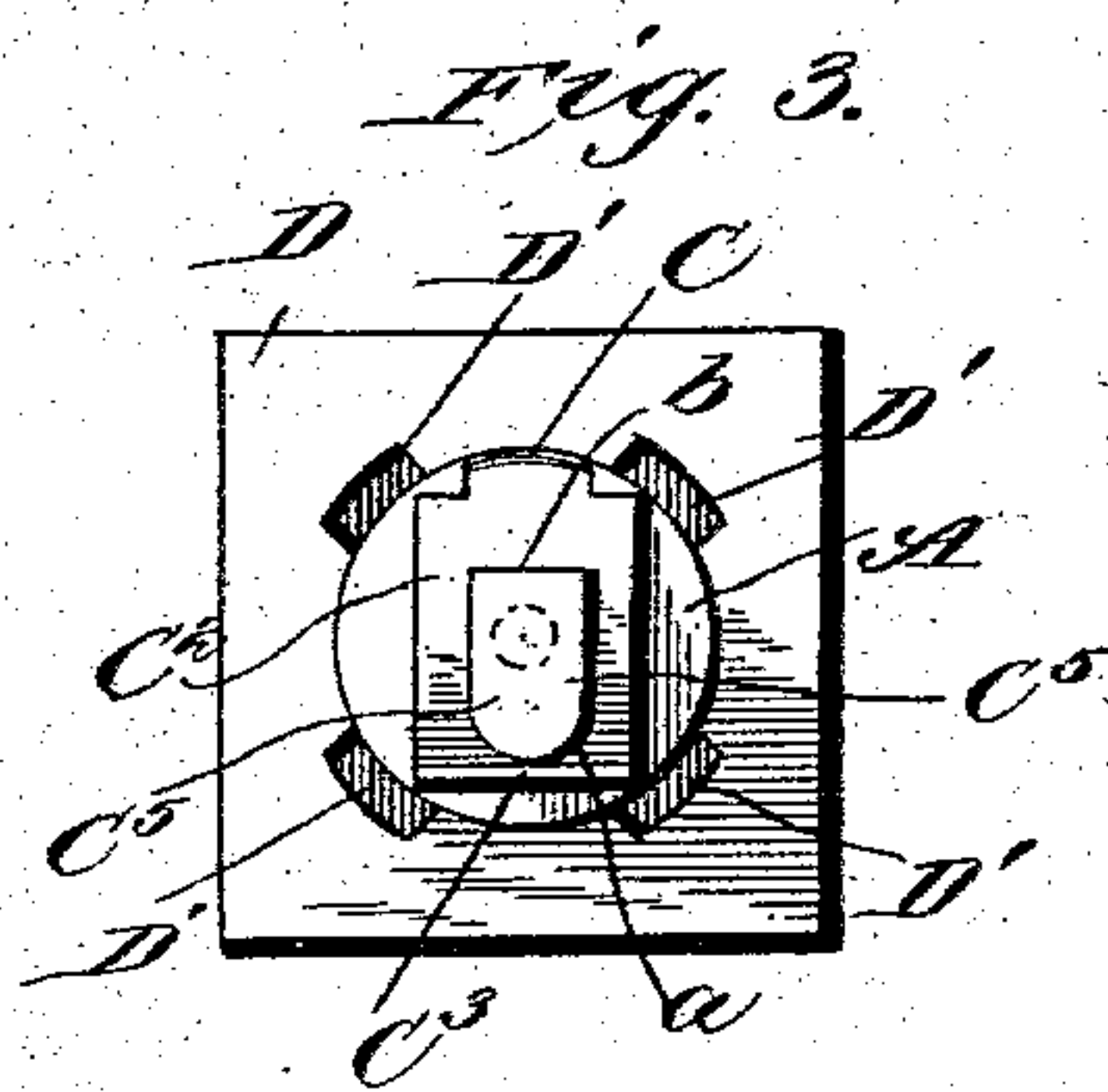
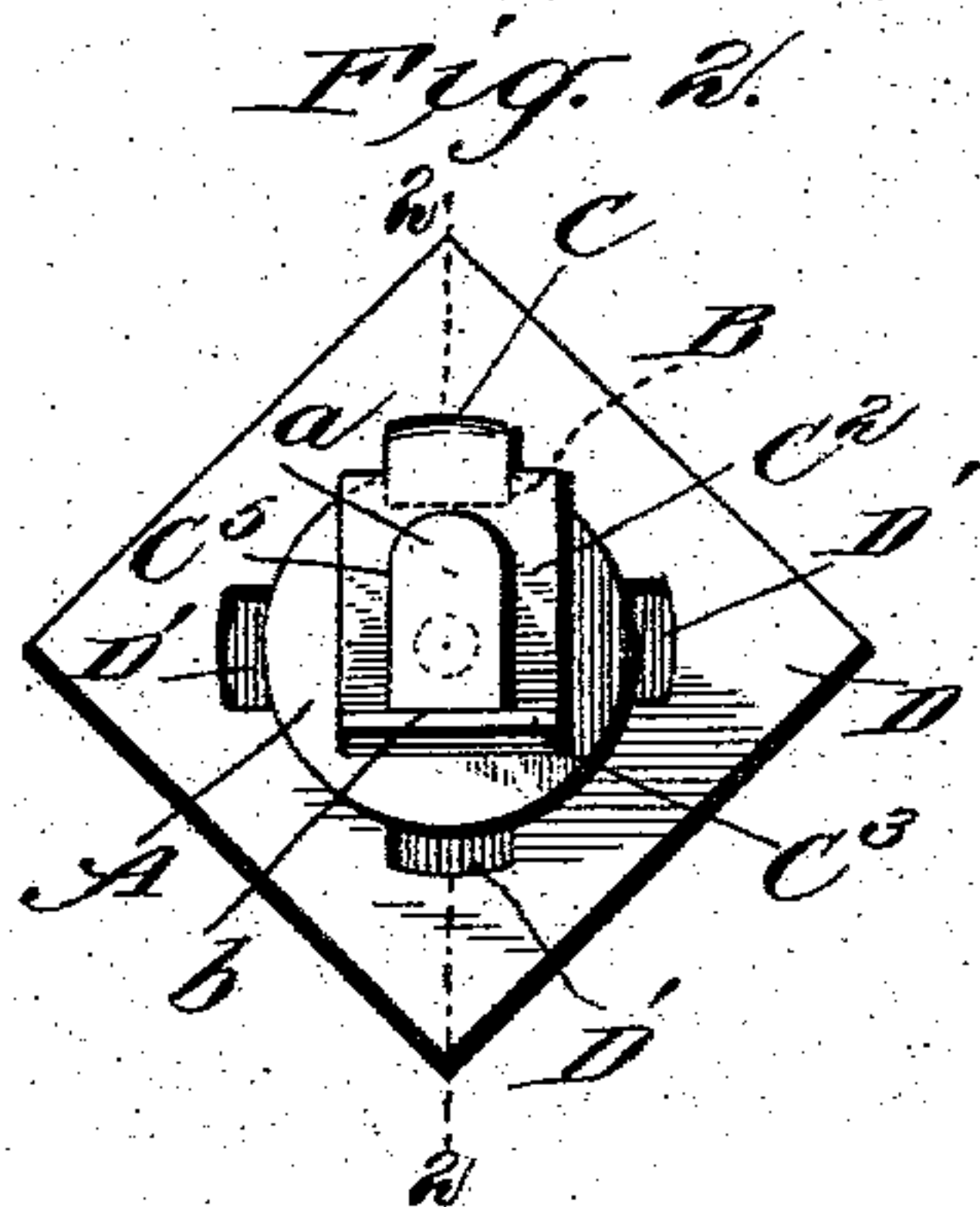
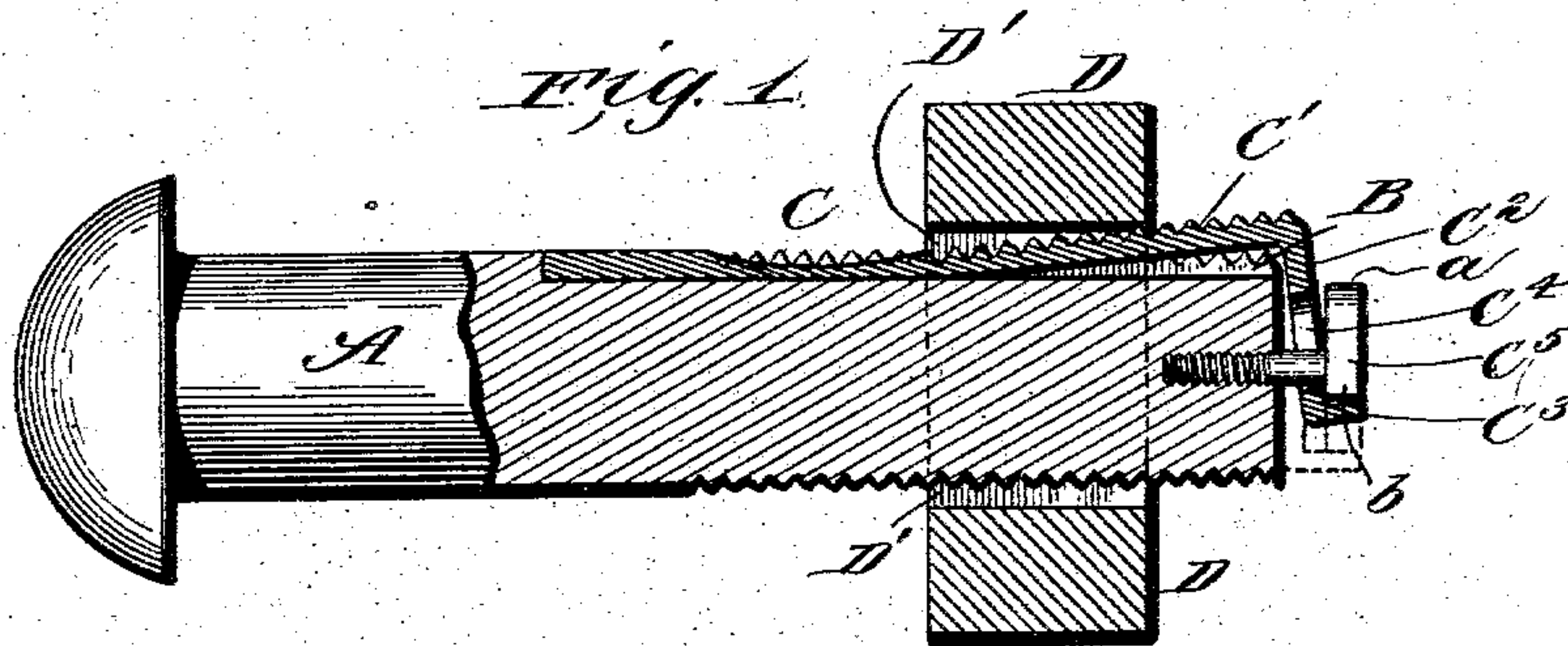
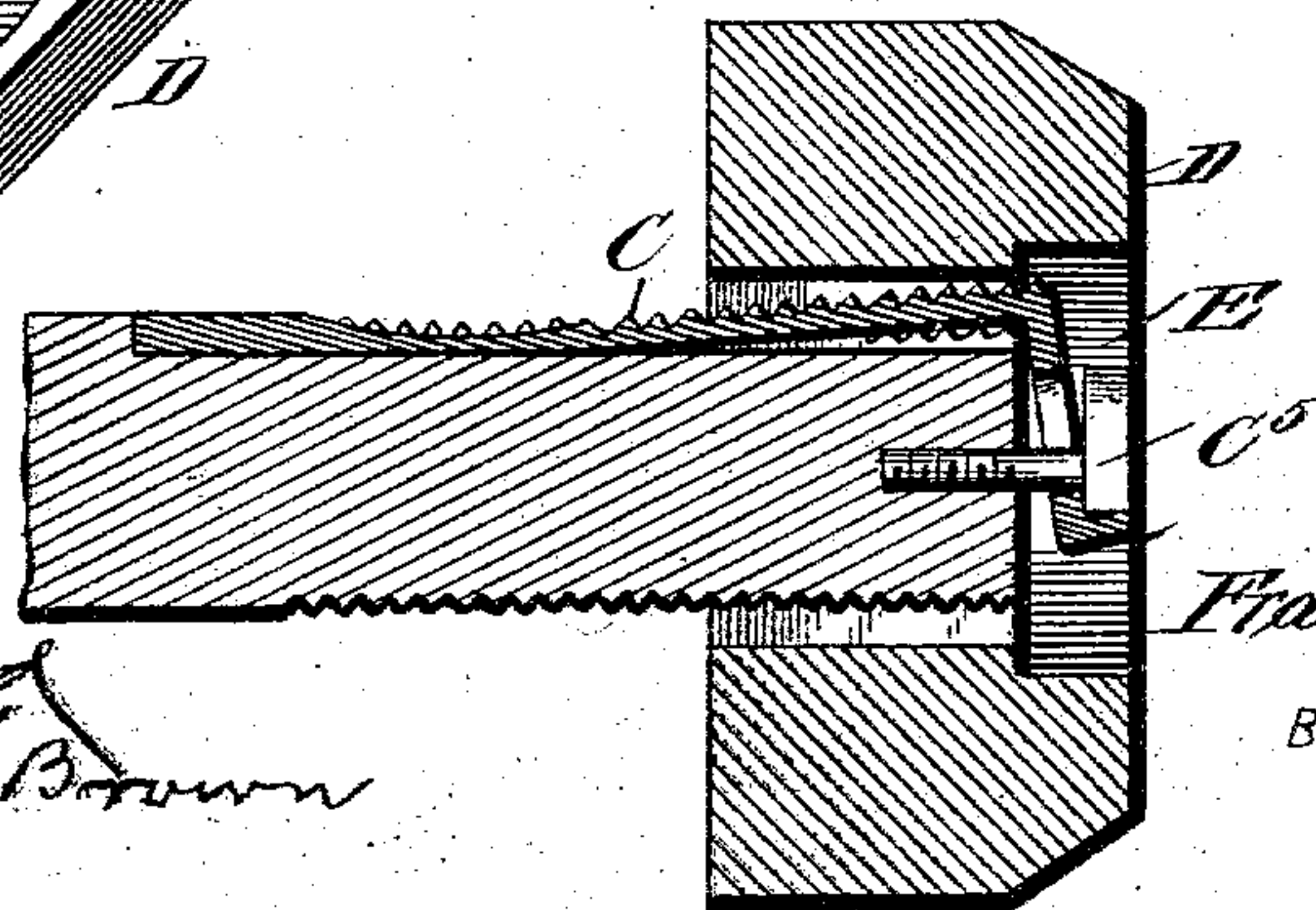


Fig. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 740,222, dated September 29, 1903.

Application filed April 8, 1903. Serial No. 151,563. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. BOSS, a citizen of the United States, and a resident of Waldron, in the county of Scott and the State of Arkansas, have made certain new and useful Improvements in Nut-Locks, of which the following is a specification.

This invention relates to that class of nut-locks in which the bolt is provided with a longitudinal groove or recess, in which is arranged a suitably-constructed spring adapted for engagement with one of a series of grooves or notches formed interiorly in the nut or bur, and thereby locking it against reverse turning on the bolt.

The invention consists of the special construction and combination of parts, which will be hereinafter fully described, and the novel features pointed out in the subjoined claims.

In order to enable others to make and use my invention, I will now proceed to describe it in detail with reference to the accompanying drawings, which form a part of this specification.

In the drawings, Figure 1 is a sectional view illustrating my invention. Fig. 2 is an end view with the parts in locking position. Fig. 3 is a similar view showing the nut locked. Fig. 4 is a detail perspective view of my special locking-tongue; and Figs. 5 and 6 are respectively front and sectional views showing a modified form of nut employed by me.

In carrying out my invention I employ a bolt A, having a groove or recess B longitudinally along its length, as shown. In this groove or recess I arrange a peculiar spring-tongue C, fastened at its lower or inner end by swaging, brazing, or other suitable means. The tongue C is provided with notches C' at its yielding end adapted when it is pressed down into the groove or recess B of the bolt to permit turning action of the nut or bur. It will be noticed that the yielding end of the tongue C is flattened at C² and bent at an angle over the outer end of the bolt. The flattened portion C² is turned up, forming a shoulder C³, and provided with an elongated

opening C⁴, adapted to receive the shank of a turn-button C⁵. The shank of the turn-button may be tapped into a suitable recess in the end of the bolt A or be otherwise suitably secured, providing fixed security which will allow free turning thereof. It will be further noticed that the turn-button head is fashioned cam shape at *a*, adapted when turned against the shoulder C³ of the flattened portion of the spring-tongue to hold the spring-tongue into the groove of recess B of the bolt A. With the tongue C compressed, as just described, it is held out of locking position with the nut. In further carrying out my invention I employ a nut or bur D, having internal grooves or recesses D', with either of which the tongue C is adapted to engage when its yielding end stands out or projects beyond the side walls of the groove B—i. e., with the flat or inoperative side *b* of the turn-button C⁵ turned next to the shoulder C³ at the end of the flattened portion C² of the spring-tongue C.

In working my invention I may employ a modified form of nut or bur, having an inner enlarged recess portion E, (see Figs. 5 and 6,) providing a suitable housing for the turn-button C⁵ and the yielding end of the tongue C.

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

1. The combination in a nut-lock of the character described, employing a nut having inner grooves or recesses and a bolt having in its length a suitable groove containing a yielding tongue, of an angular portion at the yielding end of the said tongue, a shoulder on the said angular portion of the tongue, and a cam-shaped turn-button having a suitable stem extending through the said flattened end portion of the yielding tongue and into the end of the bolt, substantially as described.

2. The combination with a nut-lock employing a grooved bolt with a yielding locking-tongue fixedly arranged in the said groove, and a nut having inner grooves as specified, whereby, the nut is locked to the bolt, of a

flattened angular end, with upturned shoulder, on the said yielding tongue, an elongated opening in the said flattened end portion of the yielding tongue, and a turn-button having flat and cam-shaped sides and a stem extending through the said elongated opening in the angular end of the yielding tongue, ro-

tatably supported in the end of the bolt, substantially as described.

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Witnesses:

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