

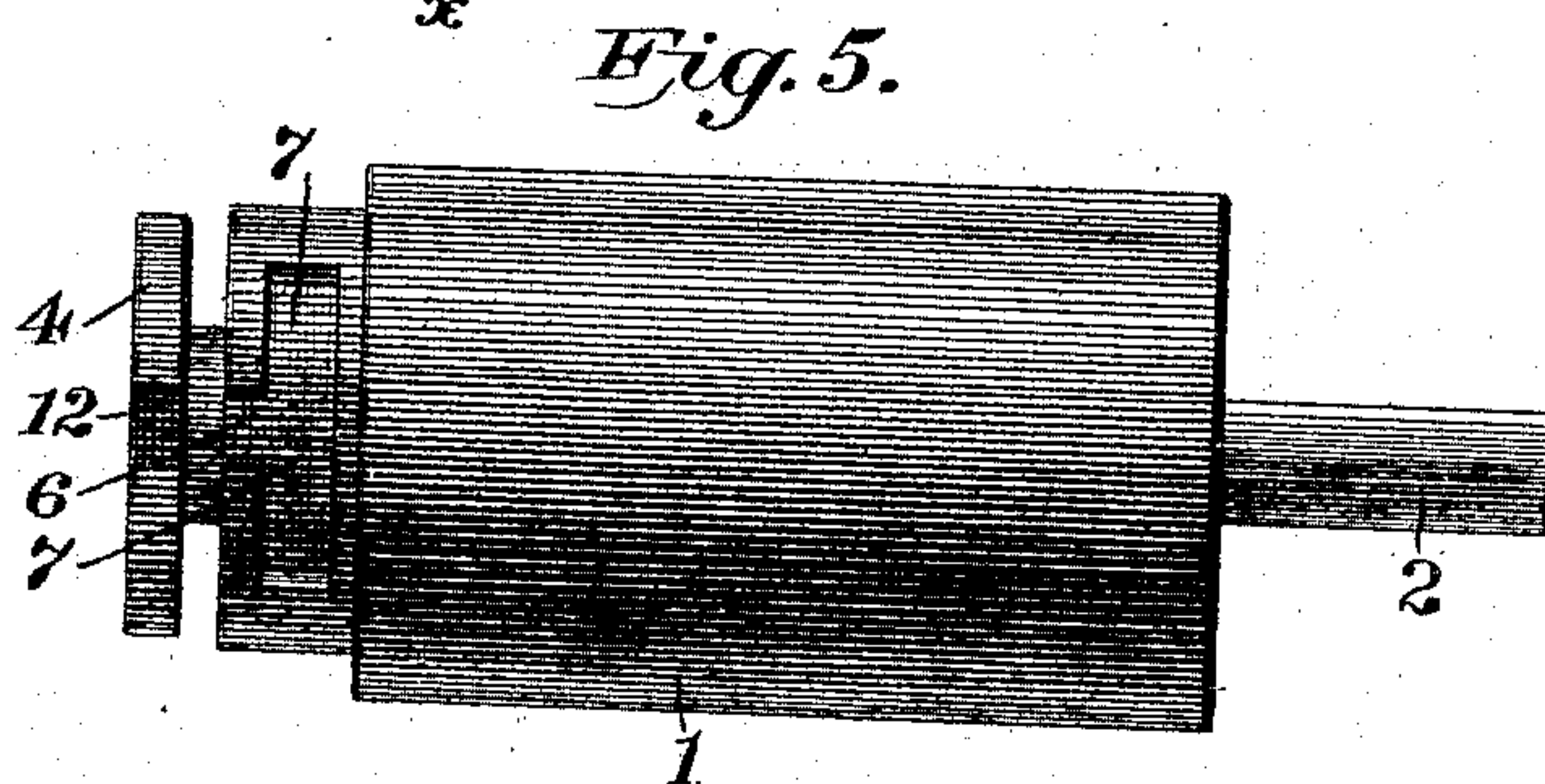
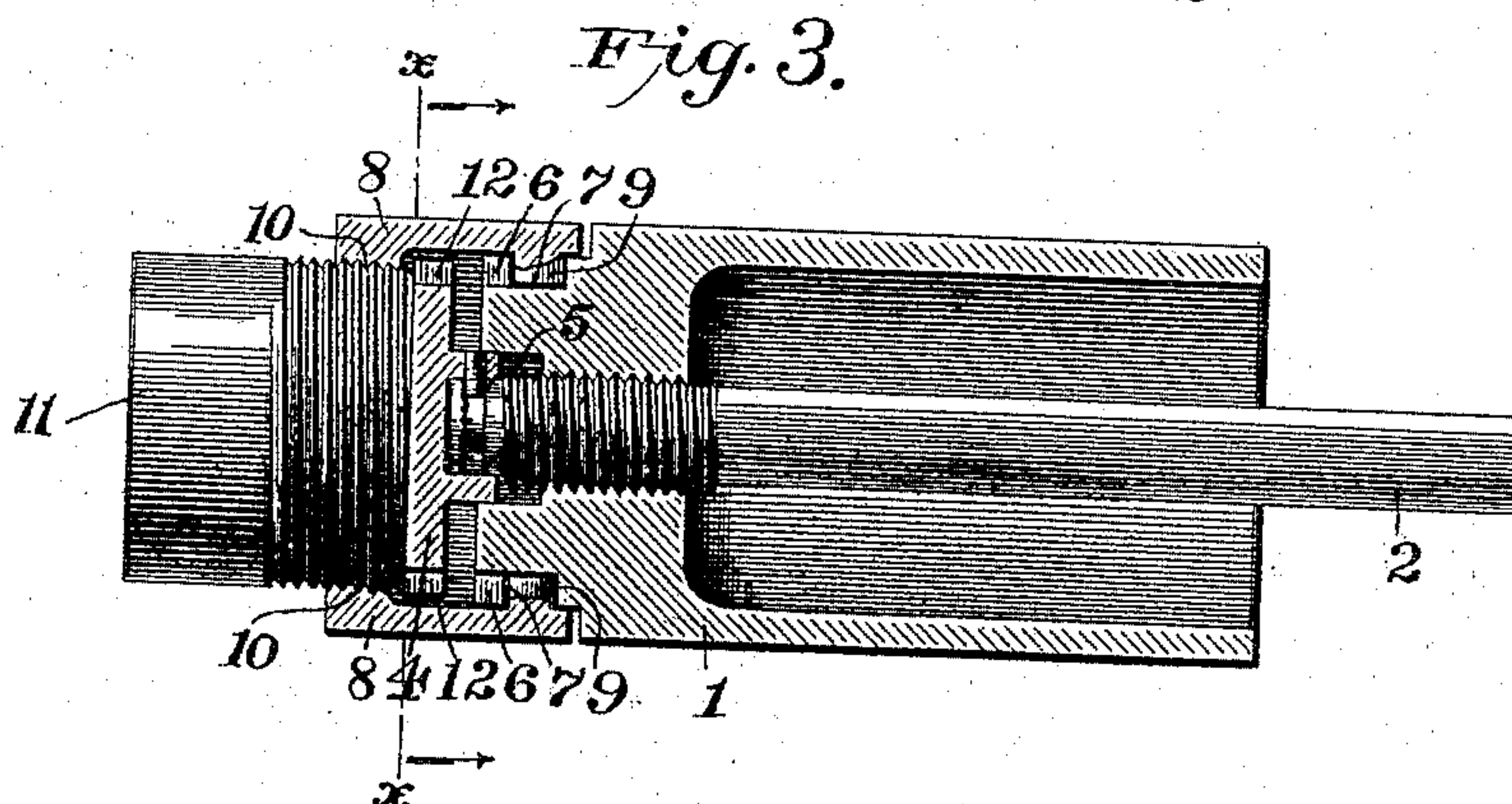
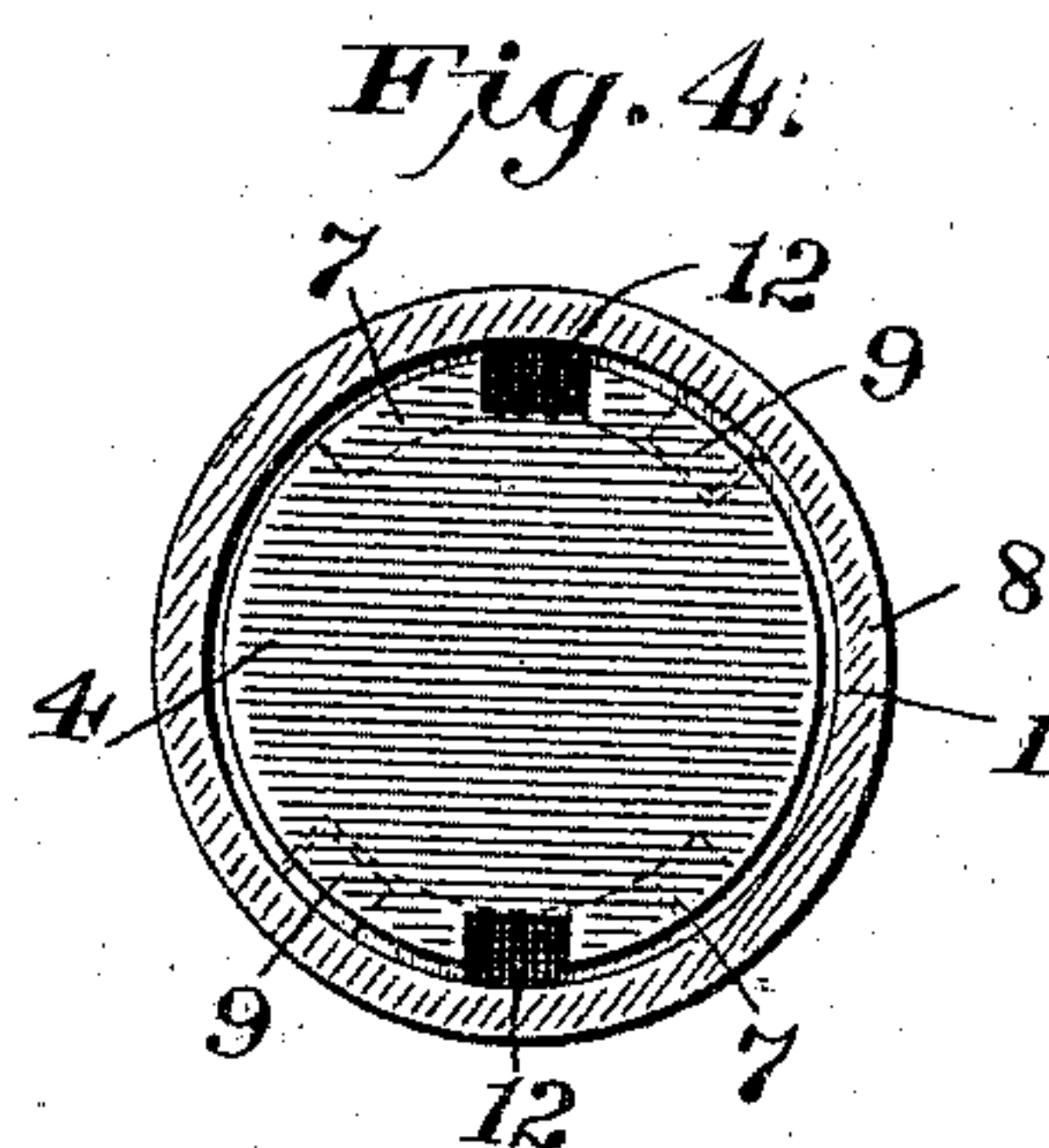
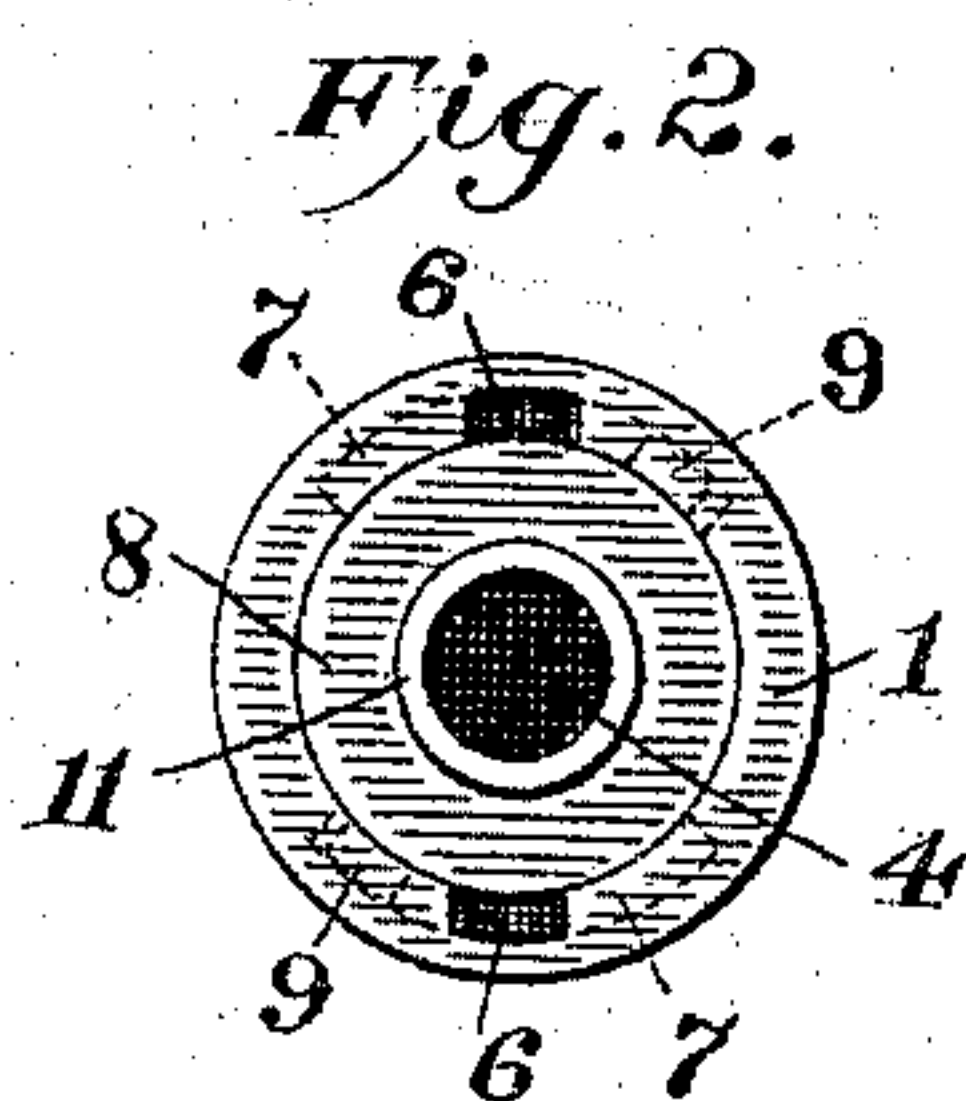
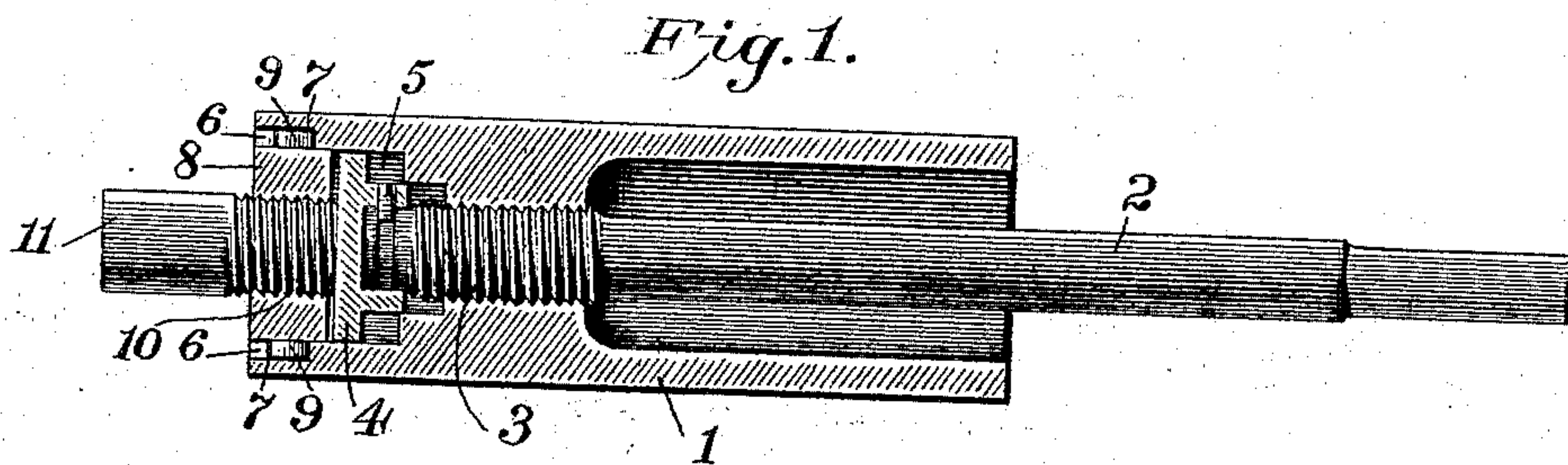
(No Model.)

J. H. REILLY.

DEVICE FOR HOLDING NIPPLES DURING THREADING.

No. 500,746.

Patented July 4, 1893.



WITNESSES:

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JAMES H. REILLY, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO CURTIS & CURTIS, OF SAME PLACE.

DEVICE FOR HOLDING NIPPLES DURING THREADING.

SPECIFICATION forming part of Letters Patent No. 500,746, dated July 4, 1893.

Application filed August 18, 1892. Serial No. 443,397. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. REILLY, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Devices for Holding Nipples during Threading; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same.

My invention relates to certain new and useful improvements in devices for holding nipples during the threading thereof, and has for its object to permit of the ready removal of the nipples after threading.

In the accompanying drawings,—Figure 1 is a sectional elevation of my improvement; Fig. 2, a front elevation; Fig. 3, a sectional elevation of a slightly modified form of my improvement; Fig. 4, a front elevation of the construction shown at Fig. 3; and Fig. 5, an elevation of such construction with the nipple holder removed.

Similar numbers of reference denote like parts in the several figures of the drawings.

In threading nipples, one end of the latter is first threaded in any suitable manner, but in threading the other end it becomes necessary to secure the previously threaded end as against rotation. It has heretofore been customary to screw the threaded end of the nipple within a correspondingly threaded holder, but the action of the thread cutting dies on the plain end of the nipple would drive the latter so tightly against such holder that it was very difficult to remove said nipple. My invention aims to obviate this difficulty and will be readily understood from the following description:

Referring to Figs. 1 and 2, 1 is a casing and 2 a spindle whose front end is threaded as seen at 3 and engages with a corresponding thread in the casing.

4 is a disk or abutment plate swiveled to the front end of said spindle, the forward end of the casing being recessed as shown at 5 to permit of the projection and retraction of

said disk. In the wall of this recess 5 and leading from the front thereof are gates 6 which lead into slots 7 in the casing which slots extend at right angles to said gates.

8 is the nipple holder having laterally extending lugs 9 and provided with threaded openings 10 which correspond to the previously threaded end of the nipple. This holder is adapted to enter the recess 5, and the gates 6 accommodate the lugs 9, so that in securing said holder in the casing, it is merely necessary to insert such holder so that said lugs are within the slots 7 and then give the holder a turn thereby locking the same as against accidental removal. The thickness of the holder is less than the previously threaded portion of the nipple, so that it will be understood that the latter will extend rearward beyond the holder.

The operation of my improvement is as follows: The nipple holder is inserted within the casing and the spindle 2 operated to force the disk 4 against the rear wall of the holder. The nipple 11 is now screwed within the holder, and the threading of the plain end is then accomplished. The action of the thread cutting dies will tend to screw the nipple firmly against the disk 4, but since the latter is swiveled there can be no chafing between the nipple and disk and the end of the nipple cannot possibly become mutilated, split or shattered, and no matter how firmly the nipple binds against the disk, the spindle may be backed without the slightest difficulty after the threading is completed thereby removing the friction between the disk and nipple and permitting the ready withdrawal of the latter by hand.

Right and left handed threads may be cut, and various sizes of nipples may be accommodated by substituting holders properly threaded and having the openings 10 of the proper size, and in this connection it will be observed that the slots 7 extend across the gates 6 in opposite directions, whereby the lugs 9 may be locked in cutting both kinds of threads.

In the construction shown at Figs. 3, 4 and

5, the lugs 9 extend inward from the inner wall of the nipple holder, and the gates 6 and slots 7 are cut in the outside of the end of the casing, thereby permitting the holder to be
 5 secured to the outside of the casing instead of the inside. This modified form of my improvement is especially adapted for very large nipples, and should it be found necessary, the disk 4 may be notched as shown at 12 to permit
 10 of the passage of the lugs 9 through the gates 6 into the slots 7.

The nipple holder may be secured to the casing in any suitable manner, and I do not wish to be limited to the construction shown
 15 for accomplishing this result. Also the spindle may be secured in its projected position by means of any ordinary mechanical devices, such as a cam or a wedge, since the relaxing of such devices will effect the same result as
 20 is effected by the backing of the screw, the gist of my invention in this respect resting in the broad idea of a relaxable abutment against which the ends of the nipples impinge during the threading operation. My
 25 invention is far removed from the devices having angular grasping ribs which are wedged within the nipple so as to cut into the same and thereby hold it as against rotation, and I wish to be understood as disclaiming
 30 any such construction, it being imperative in my device that the end of the nipple should abut squarely against the disk. In this connection I will say that it is a well established fact that an attempt to hold a nipple (during
 35 threading) by wedging grasping edges against the interior of the nipple, will result in either

reaming out the nipple or in cutting jagged gashes therein.

I claim—

1. In a device for holding nipples preparatory to final threading, the combination of
 40 the casing, the holder secured to the end thereof and incapable of rotary or longitudinal motion, and a swiveled relaxable abutment against which the ends of the nipples
 45 impinge during the threading, substantially as set forth.

2. In a device for holding the previously threaded end of a nipple preparatory to the
 50 cutting of threads on the other end thereof, the combination of the casing having gates and transverse slots as described, the spindle having a thread adapted to engage with a
 55 corresponding thread in said casing, the disk swiveled to the end of said spindle, and the interiorly threaded nipple holder having laterally extending lugs, substantially as shown and described.

3. The combination of the casing, and the nipple holder detachably secured therein, with
 60 the spindle having a screw thread adapted to a corresponding thread in said casing, and the abutment disk swiveled to the end of said spindle in the immediate rear of said holder,
 65 substantially as set forth.

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

JAMES H. REILLY.

Witnesses:

J. S. FINCH,
 F. W. SMITH, Jr.