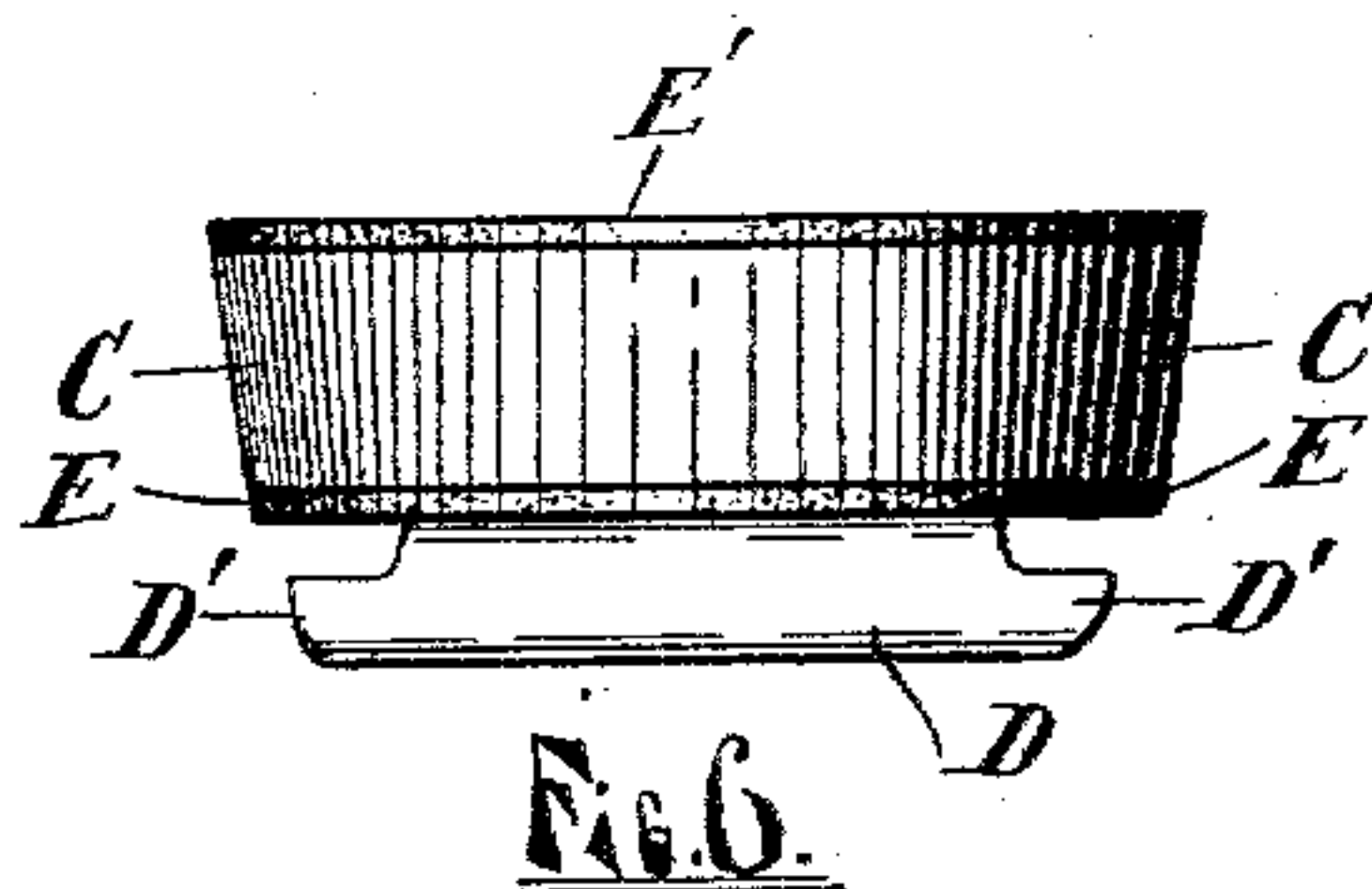
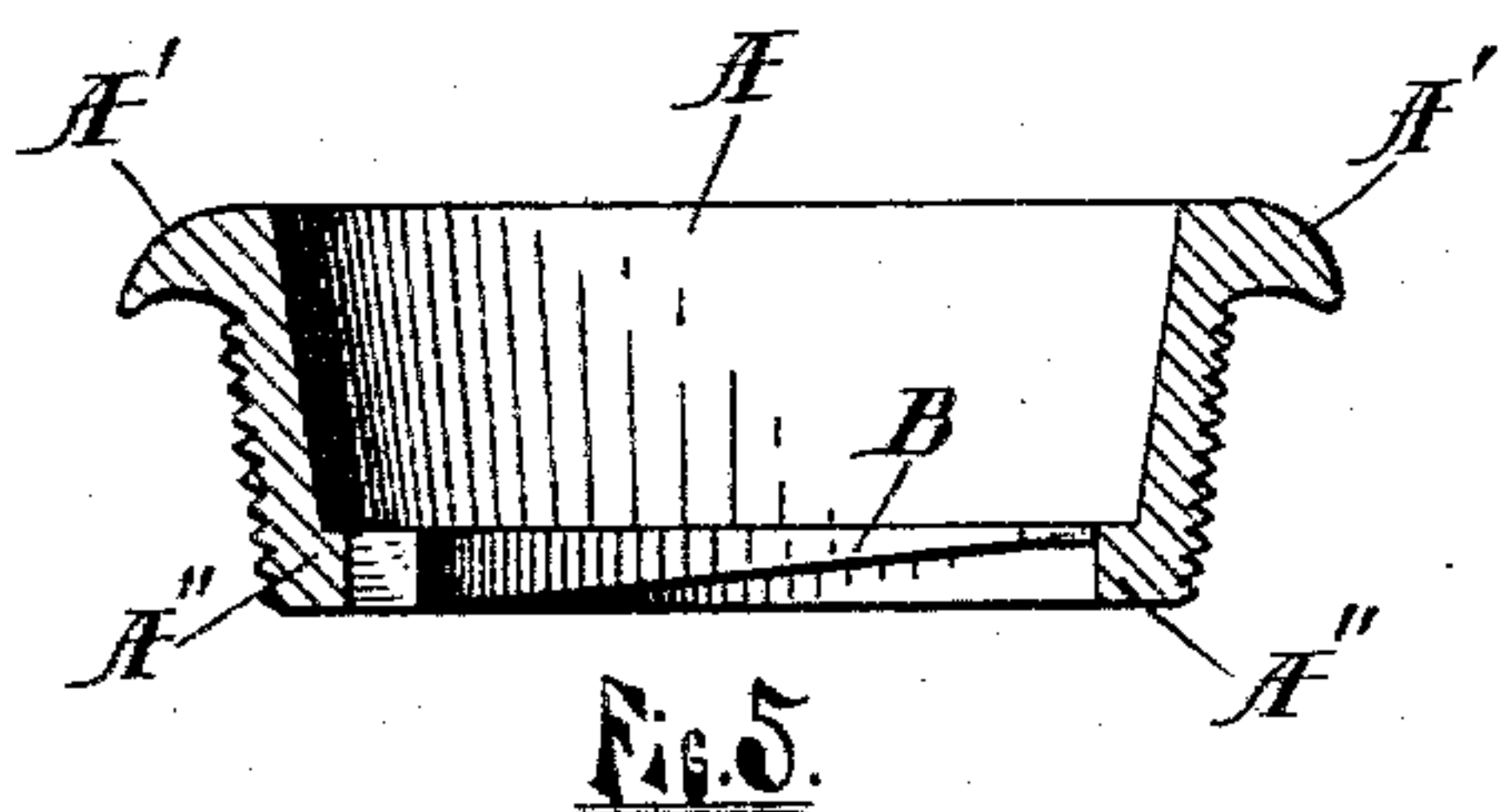
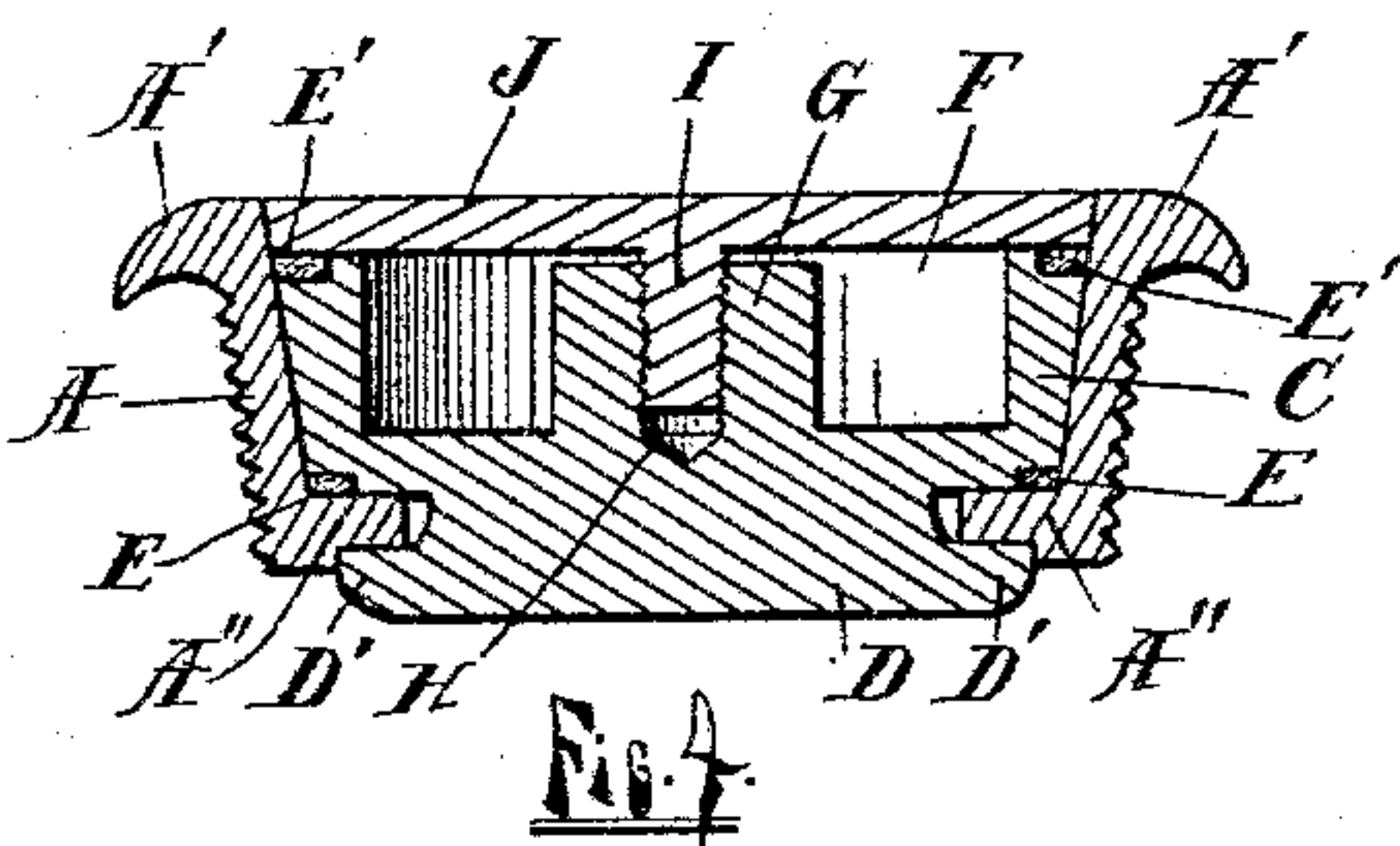
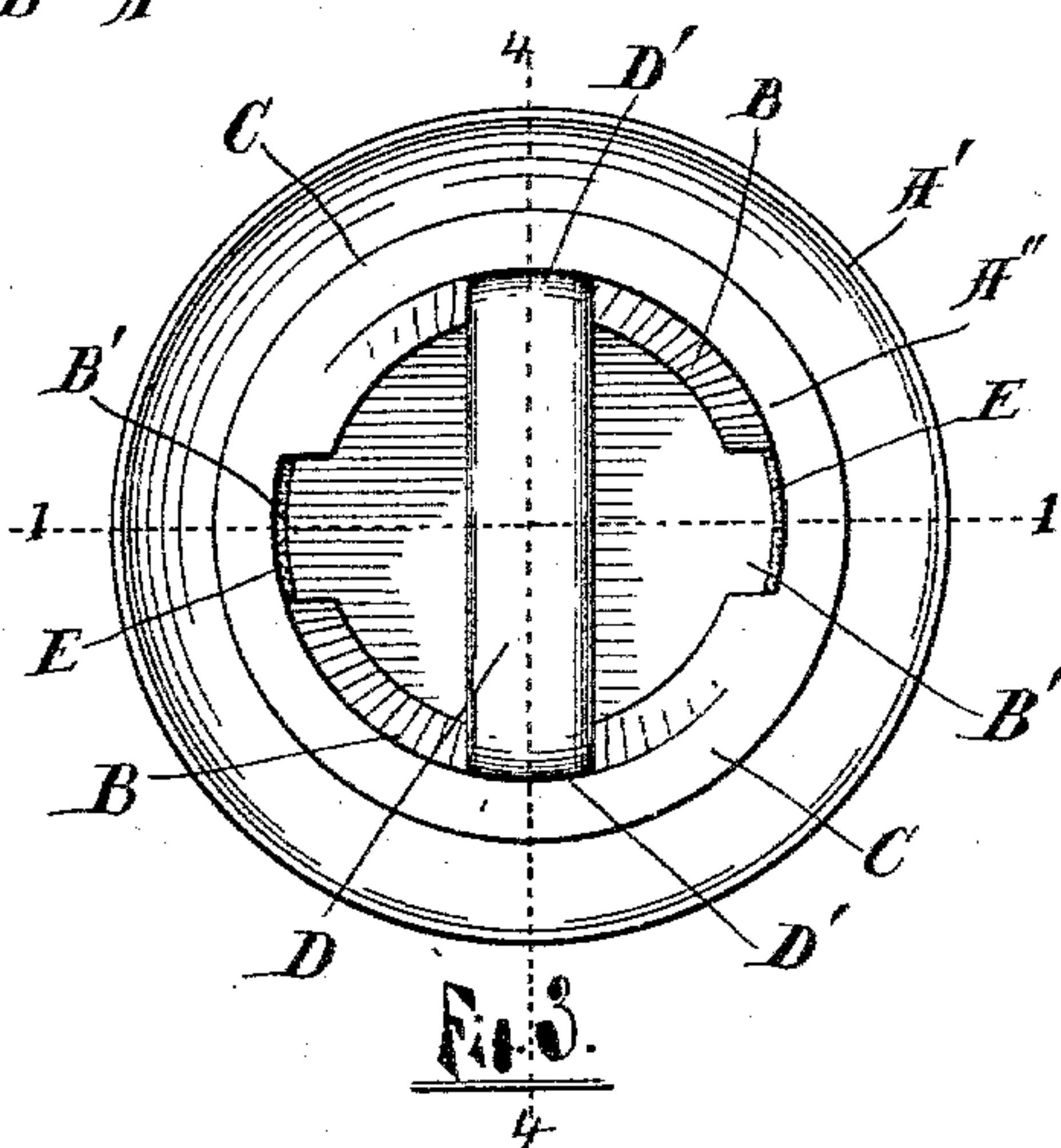
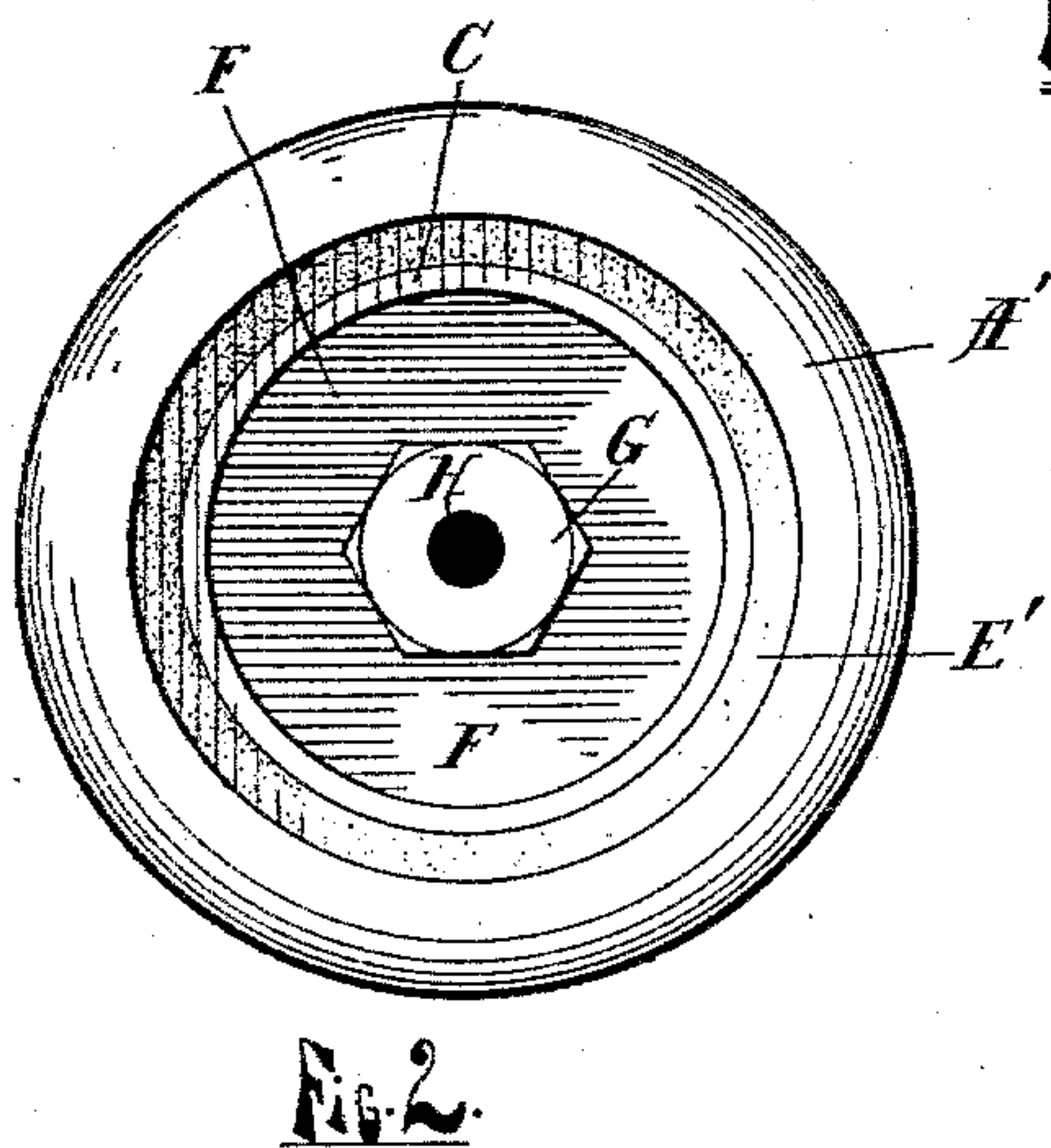
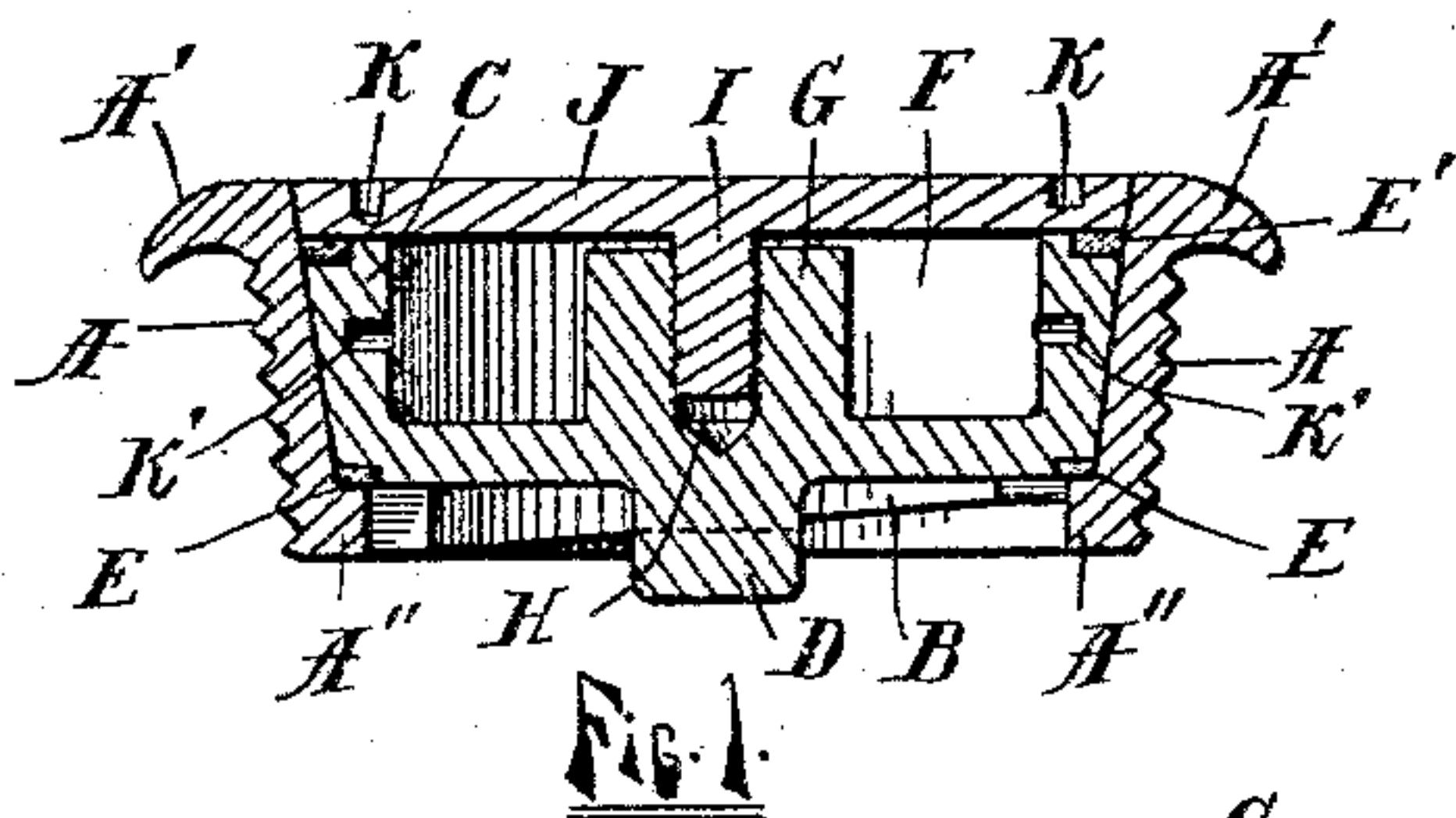


(No Model.)

J. PARBEL.
BUNG.

No. 571,842.

Patented Nov. 24, 1896.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH PARBEL, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF
TO JACOB PARBEL, OF SAME PLACE.

BUNG.

SPECIFICATION forming part of Letters Patent No. 571,842, dated November 24, 1896.

Application filed April 6, 1896. Serial No. 586,408. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH PARBEL, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Bungs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in bungs for casks, barrels, and similar vessels, and especially for beer-barrels; and its object is to provide the same with certain new and useful improvements hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a section on the line 1 1 of Fig. 3 of a device embodying my invention. Fig. 2 is a plan view of the same with the disk removed. Fig. 3 is an inverted plan view. Fig. 4 is a section on the line 4 4 of Fig. 3. Fig. 5 is a section of the bushing, and Fig. 6 a side elevation of the bung.

Like letters refer to like parts in all of the figures.

A is a bushing adapted to be screwed into the bung-hole of a beer-barrel, and has an outwardly and downwardly turned flange A' on its outer end, the sharp angle of said flange being adapted to be slightly pressed into the barrel side when said bushing is screwed in, thus forming a tight joint between said side and bushing. On the inner end of said bushing is an inwardly-turned flange A'', which forms a seat for the bung C, and has the inclines B, which extend only part of the way around said flange, leaving the openings B' to admit of the passage of the lugs D' on the ends of the transverse bar D, which bar is attached to the bottom of the bung C. In the upper and lower outer angles of said bung are grooves to receive the packing-rings E' E, and in the top of the same is a deep circular cavity F, in the axis of which is the hexagon post G, adapted to be engaged by a wrench, by means

of which said bung may be turned. Said post G is provided with a central threaded opening H to receive the threaded axial stud I of the disk J, which disk is adapted to fill the outer end of the bushing A and cover the bung C. Small holes K are provided in the outer surface of said disk to receive a tool or key, by means of which said disk may be turned, and holes K' are also provided in opposite sides of the cavity F to receive a tool, by means of which the bung may be lifted out after being turned by a wrench applied to the post G.

When the bung C is inserted in the bushing A, the lugs D' pass through the openings B', and when said bung is turned said lugs engage the inclines B and prevent its removal. Continuing to turn said bung the same will be more firmly seated upon the flange A'', and the packing-ring E will be forced into the angle between said flange and bushing, forming a tight joint. The space between the outer end of said bung and the outer surface of said bushing is such that when said disk J is in place its outer surface will be flush with said bushing and its inner surface will engage the packing-ring E' and force the same into the angle between said bung and bushing, thus forming a second tight joint and doubly preventing any leakage.

By this construction I secure a bung which will prevent all leakage and which cannot be easily opened without the proper tools and that can be repeatedly removed and replaced without destruction of parts.

Having thus fully described my invention, what I claim is—

1. In combination, a bushing, a flange on said bushing, inclines on said flange, a bung having a central opening and grooves in its upper and lower outer angles, a disk, a stud on said disk to engage said opening, rings of packing in said grooves, and lugs on said bung to engage said inclines, substantially as described.

2. In combination, a bushing, an outwardly and downwardly turned flange on said bush-

ing, and an inwardly-turned flange on the same, having inclines, a bung having a central cavity and grooves in its upper and lower outer angles, packing-rings in said grooves, 5 a post having a central opening in said stud to engage said opening, and openings to receive a tool for turning the same, a transverse bar on said bung and lugs on said bar

to engage said inclines, substantially as and for the purposes specified. 10

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

JOSEPH PARBEL.

Witnesses:

JACOB PARBEL,

LUTHER V. MOULTON.