

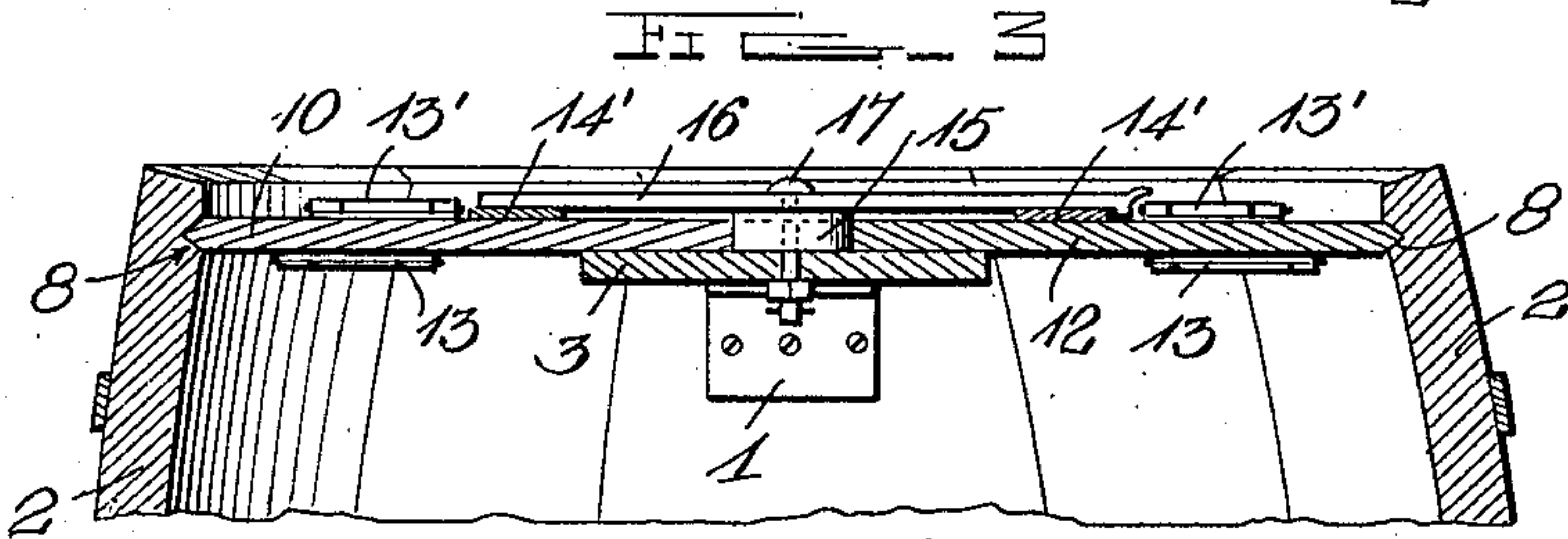
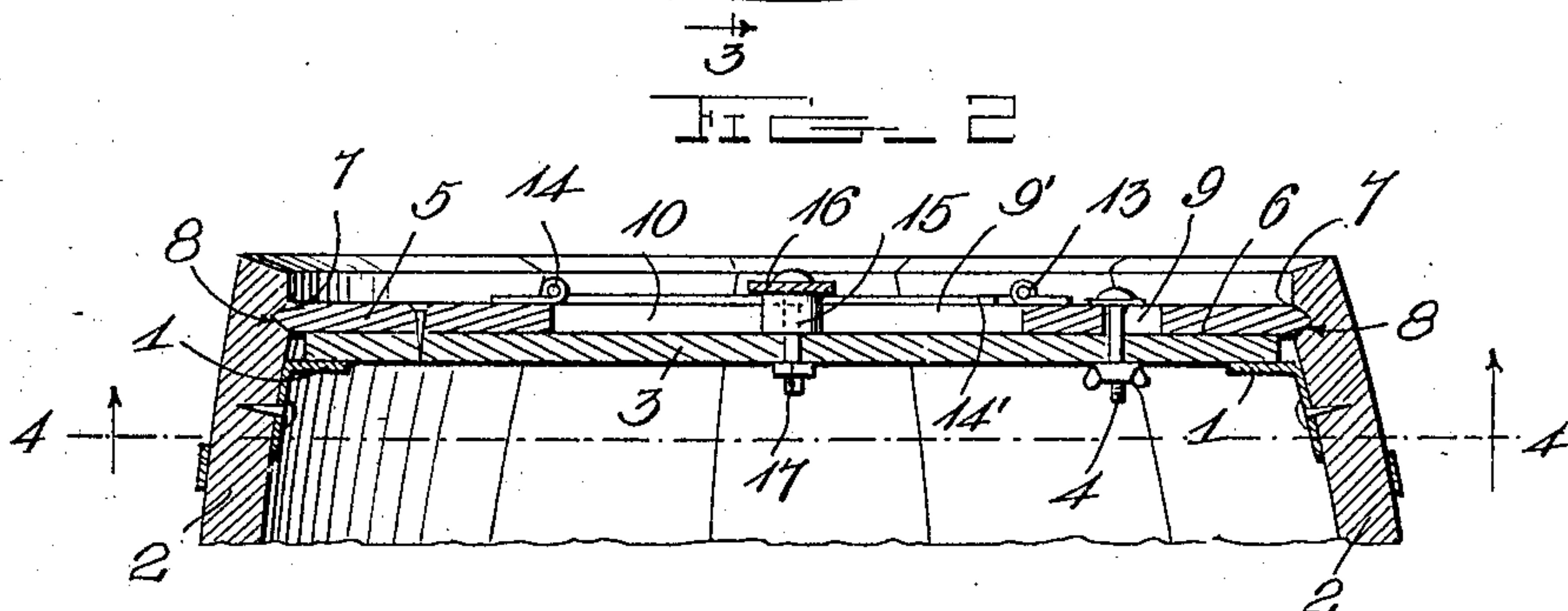
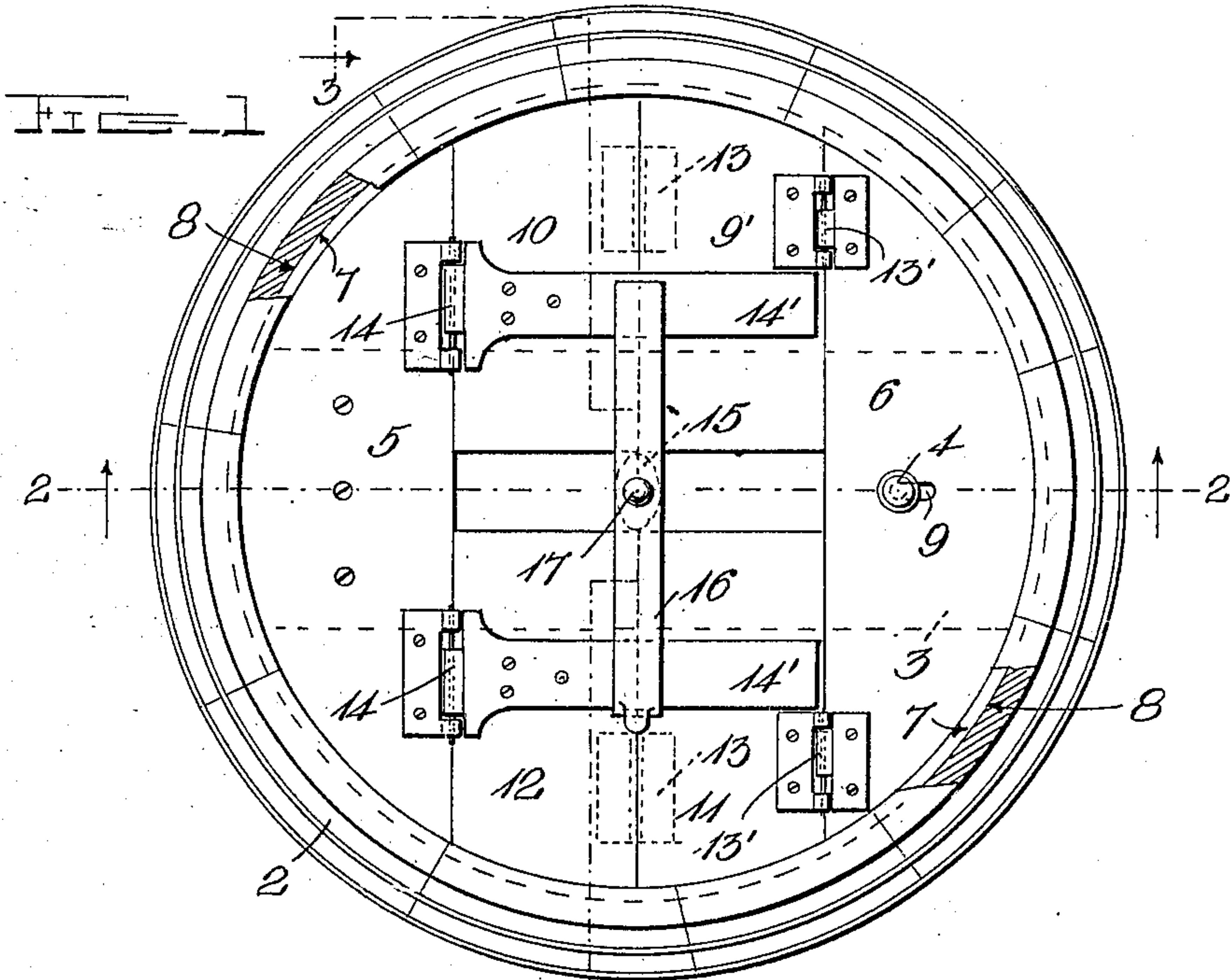
J. LEIGHT.
BARREL HEAD.

APPLICATION FILED JUNE 8, 1908.

Patented Apr. 27, 1909.

2 SHEETS—SHEET 1.

919,441.



Inventor

John Leicht

Witnesses

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R. R. Duffie

By

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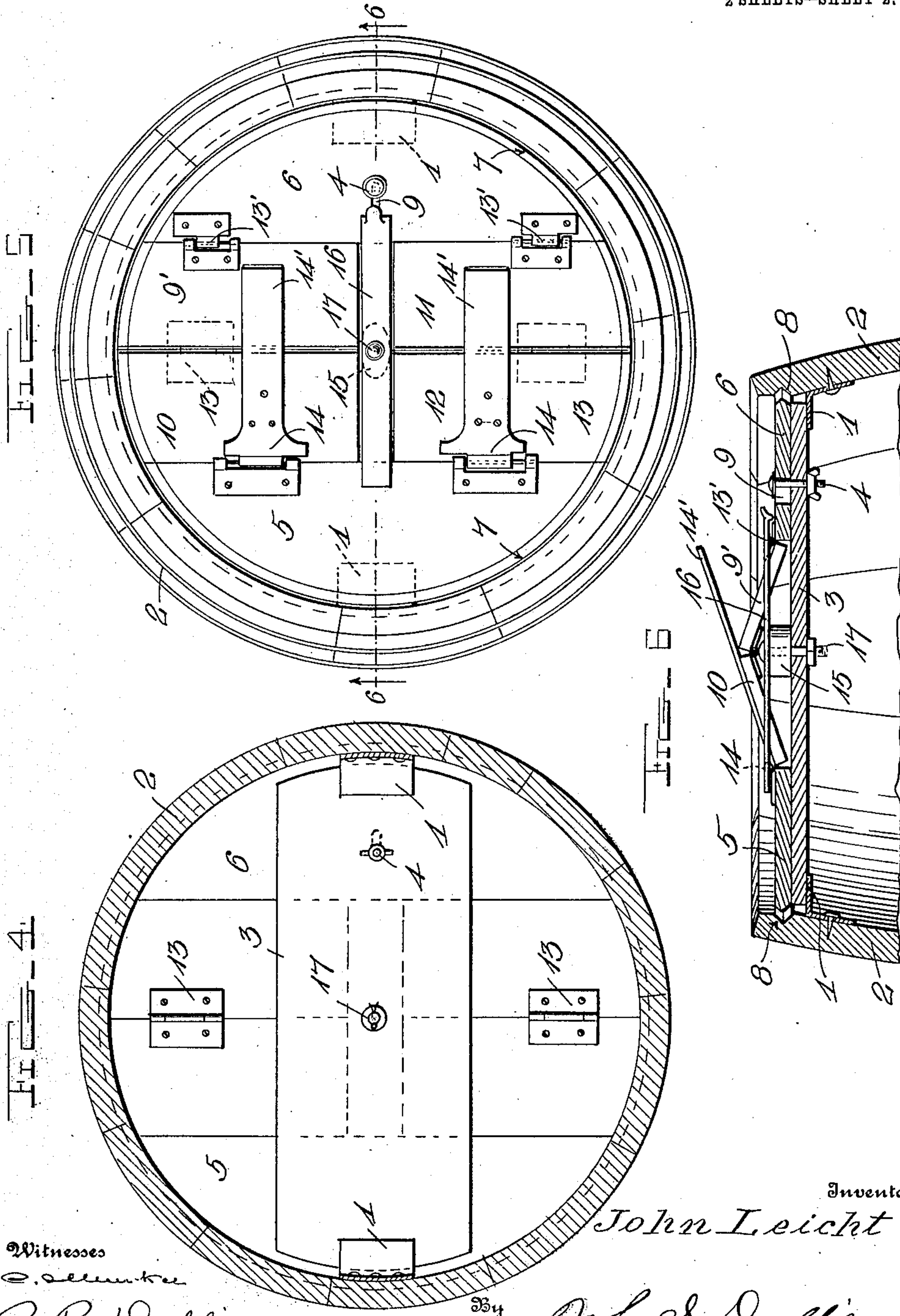
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UNITED STATES PATENT OFFICE.

JOHN LEIGHT, OF BURLINGTON, IOWA.

BARREL-HEAD.

No. 919,441.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed June 8, 1908. Serial No. 437,321.

To all whom it may concern:

Be it known that I, JOHN LEIGHT, a citizen of the United States, residing at Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Barrel-Heads, of which the following is a specification.

My invention consists in new and useful improvements in barrel heads or lids or covers for boxes or other receptacles, adapted to be removed or replaced at will, without any perceptible injury to the said barrel or other receptacles. Thus the coverings for the receptacles that I have named and the receptacles themselves will be preserved for repeated use.

Another object of my invention is the convenience that is derived from its use. The lid of a barrel or box may be readily removed for the object of displaying the contents of said receptacle, or for the examination of the contents therein.

With these and other objects in view my invention consists of the novel construction and arrangement of parts as are hereinafter described, illustrated in the drawings forming a part of the specification and particularly pointed out in the claims hereunto appended.

Reference being had to the drawings:— Figure 1, is a plan view of a barrel equipped with a movable head. Fig. 2, is a vertical sectional view on the line 2—2, of Fig. 1. Fig. 3, is a similar view, taken on the line 3—3, of Fig. 1. Fig. 4, is a horizontal, sectional view on the line 4—4, of Fig. 2, disclosing the under side of the removable barrel head. Fig. 5, is a plan view of the barrel, with the cover in position to be removed. Fig. 6, is a vertical sectional view of my device, taken on the line 6—6, of Fig. 5.

Referring more particularly to the drawings, my invention is described as follows:— Two, or as many as may be desired, pieces of metal or other material 1, shaped in the form of a bracket or brace is secured by suitable means to the inner walls of the barrel 2. Resting on two or more of said brackets is a strip of wood or other material 3, which is as long as the opening in said barrel, and about one third the width thereof, said strip having protruding upwardly from its center, and near one of its ends a headed bolt 4. The sections 5 and 6, whose greatest width is about one third the width of the opening in said barrel, have their curved edges 7, V

shaped for the purpose of conforming to the croze 8, cut in the inner walls of said barrel. Said section 6 has passing through its center, a slot 9, the axis of said slot running at right angles to the straight edge thereof; said slot being for the purpose of allowing the movement of the section 6, against the upper face of the strip 3, so that the V shaped curved edge of said section may be thrown out and into engagement with the croze of said barrel. Said section 5, is firmly fastened to said strip 3, by means of screws or other substantial means. Four pieces of wood or other material so shaped as to have their outer ends conform to the curvature of the inner surface of said barrel, and whose length is equal to one half the diameter of said barrel, less about $\frac{1}{8}$ of an inch each, are adapted, as stated, for said sections, for engagement with the croze of said barrel. These pieces of wood are numbered 9¹, 10, 11 and 12, respectively. Each two adjacent pieces of wood 9¹, 10 and 11 and 12, respectively, may be attached to each other by means of a common hinge 13, secured to the under surfaces of said pieces of wood, or they may be provided with a sliplap joint in lieu of such hinges. Each two adjacent pieces have hinges 13¹ and 14, secured to their outer edges, connecting each to its adjacent section 5 or 6; these hinges are so constructed to admit of a slide at least equal to the depth of the croze of the barrel. Two of said hinges 14, shall be long enough upon one wing thereof, to serve as a lever for handle 14¹, adapted and for the purpose of expanding or contracting the barrel head. Thus the pieces of wood 9¹, 10, 11 and 12, are contracting and expanding sections, and shall be referred to as such hereinafter. Said expanding and contracting sections are held in engagement with the croze of said barrel by means of the cam block 15, secured to the under face of the lever lock 16, and which rotates against the upper surface of said strip 3. Said lever lock, made of metal or other material, for spreading the contracting and expanding sections and holding the same in locked position when spread is pivotally mounted upon a headed central bolt 17, said bolt passing through the lever lock, the cam, and the strip 3. When the lever lock is at right angles to the wings 14¹, it is held in position by its own tension.

Though I have specifically described my invention I may exercise the right to make

such modification and changes in the minor details and construction of the same, which clearly falls within the scope and spirit of my invention, and particularly to substitute a
 5 sliplap joint along and upon the edges of 9—10,—11 and 12 where they meet each other, and thus to dispense with the common hinges 13—.

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

1. In a device of the character described, the combination of a barrel having a croze cut on the inner surface thereof, near its
 15 mouth, of a head therefor comprising a strip, means for the support of said strip, a bolt extending upwardly from the central portion of said strip, near one of its ends, two sections
 20 of the mouth of said barrel, each of said sections having a straight edge and a curved edge, said curved edge being V shaped, and adapted for engagement with the croze of said barrel, one of said sections being secured
 25 to said strip, the other being provided with a slot through which passes said bolt of said strip, so as to adapt said last mentioned section to be thrown into and out of engagement with the croze of said barrel, expanding
 30 and contracting sections arranged in pairs, each pair hinged together, slide hinges connecting each of said expanding and contracting sections to one of the first-named adjacent sections, said hinges adapting said ex-
 35 panding and contracting sections to be thrown into and out of engagement with the croze of said barrel, two of said hinges having wings of a sufficient length to be used as handles for the manipulation of said barrel-head,
 40 a lever lock having secured to its under face a cam block, said cam block rotating against the upper face of said strip, and being for the purpose of throwing the V shaped edges of said expanding and contracting sections into
 45 engagement with the croze of said barrel, said lever-lock when at right angles to the long wings of said slide hinges, held in place by its own tension, substantially as shown and described.

50 2. In a device of the character described, the combination of a barrel having a croze cut on the inner surface thereof, near its mouth, of a head therefor comprising a strip,
 brackets or braces for the support of said
 55 strip being secured to the inner walls of said barrel, two sections having a width of about one third the width of the mouth of said barrel, each of said sections having a straight edge and a curved edge, said curved edge be-

ing V shaped and adapted for engagement 60 with the croze of said barrel, one of said sections being secured to said strip, the other adapted to slide against the upper surface of said strip, for the purpose of throwing the V
 shaped edge of said section into and out of 65 engagement with the croze of said barrel, expanding and contracting sections arranged in pairs, each pair connected together, or provided with a slip lap joint in lieu of being connected together, suitable means for connect- 70
 ing each of said expanding and contracting sections to one of the first-named adjacent sections, adapting the V shaped edges of said
 expanding and contracting sections to be 75 thrown into and out of engagement with the croze of said barrel, means for the manipulation of said expanding and contracting sections, said means consisting of a lever-lock having secured to its under face a cam block,
 said cam block adapted to throw said ex- 80 panding and contracting sections into position, said lever lock adapted to hold the same in such position, substantially as shown and described.

3. In a device of the character described, 85 the combination of a barrel having a croze cut on the inner surface thereof, near its mouth, of a head therefor comprising a strip, means for the support of said strip, two sec-
 tions each having a width of about one third 90 the width of the mouth of said barrel, each of said sections having two edges, one straight, the other adapted for engagement with the croze of said barrel, one of said sections being secured to said strip, the other adapted to 95
 slide against the upper face of said strip, and to be thrown into and out of engagement with said barrel, expanding and contracting sections arranged in pairs, each pair connected together, suitable means for connect- 100
 ing each of said expanding and contracting sections to one of the first-named adjacent sections, adapting said expanding and contracting sections to be thrown into and out of
 engagement with the croze of said barrel, 105 means for the manipulation of said barrel head, means for throwing said expanding and contracting sections into engagement with said barrel, and means for holding the same in such position, substantially as shown and 110
 described.

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

JOHN LEIGHT.

Witnesses:

JOHN MILLER MERCER,
 MARGARET JONES MERCER.