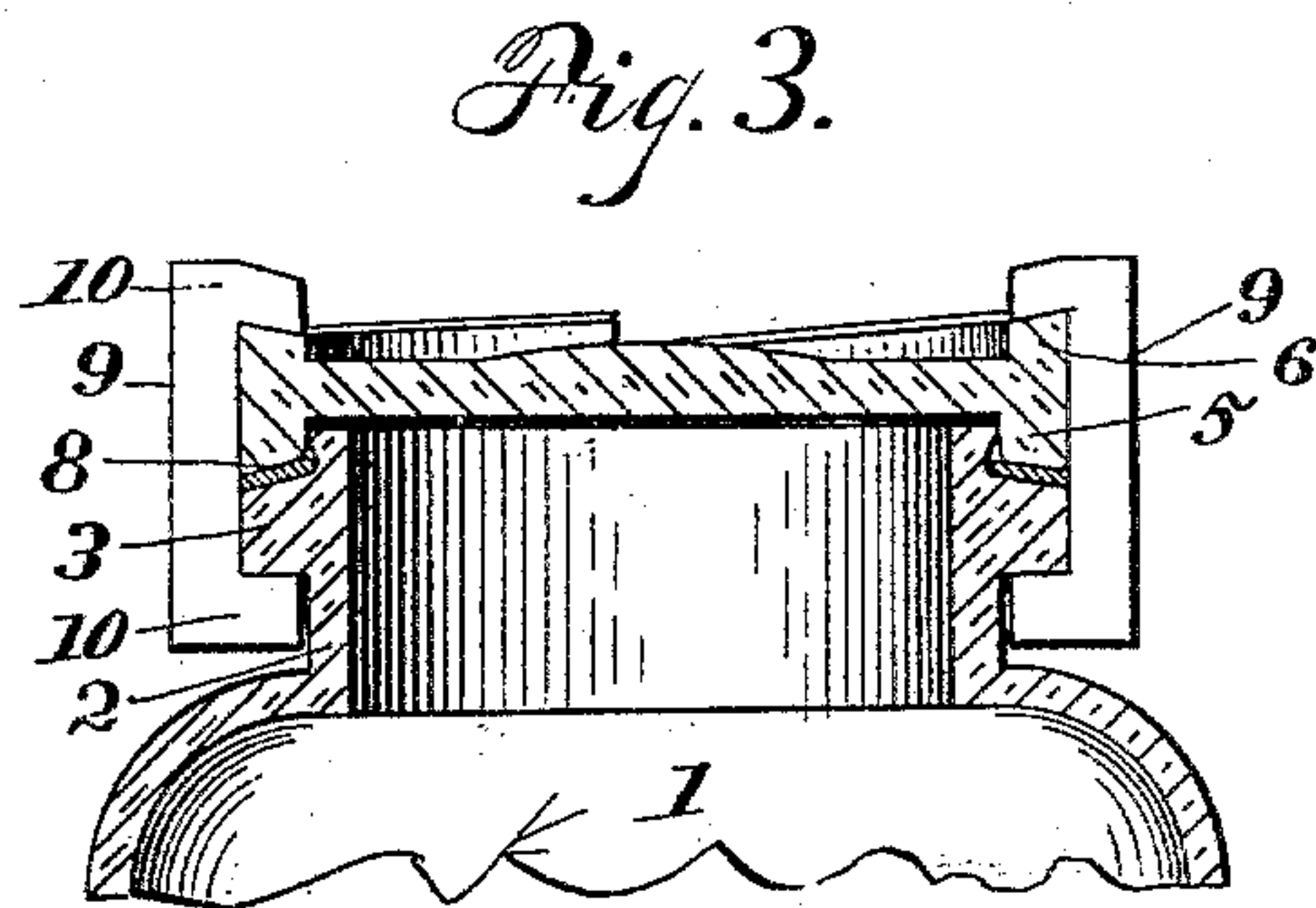
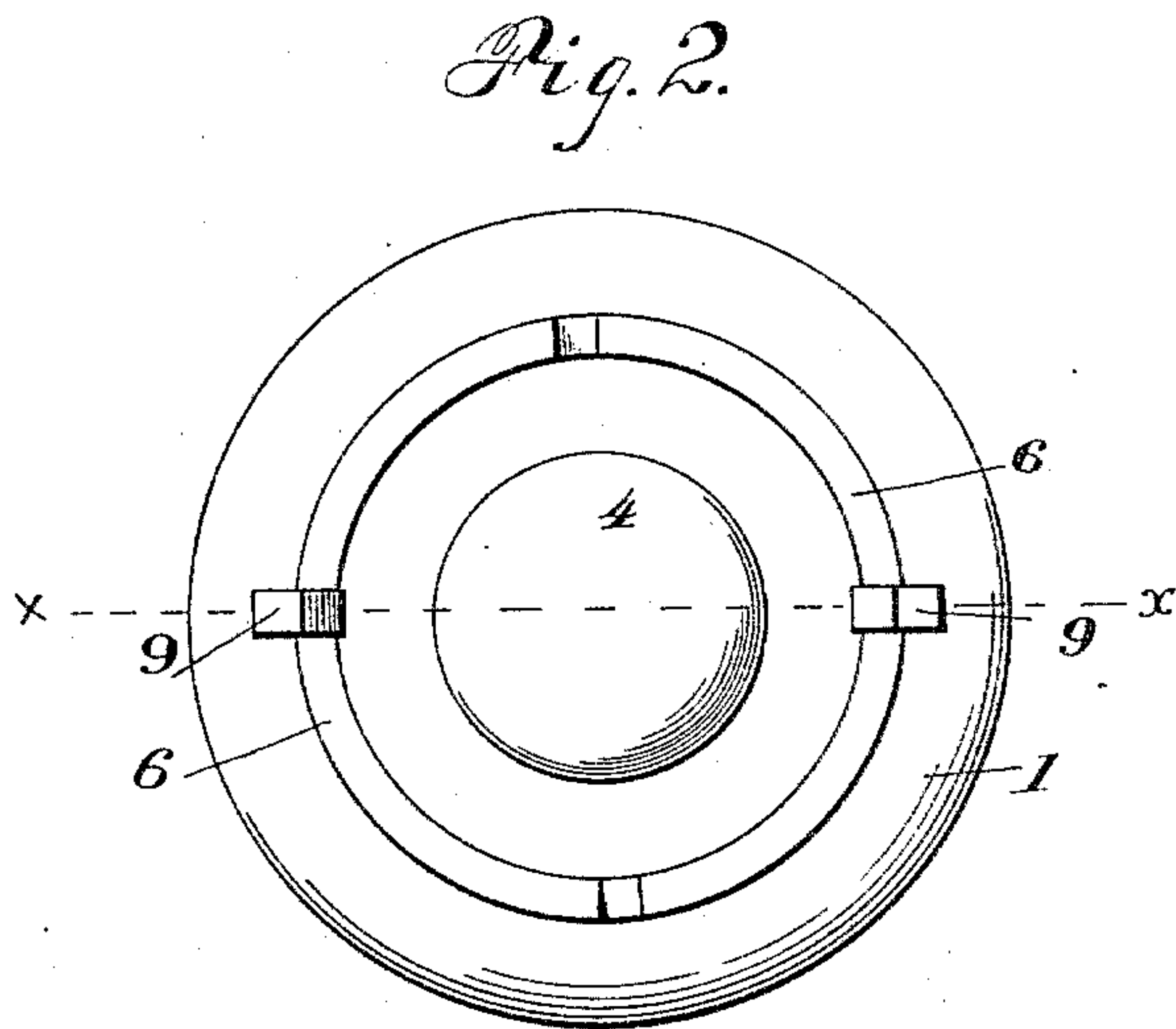
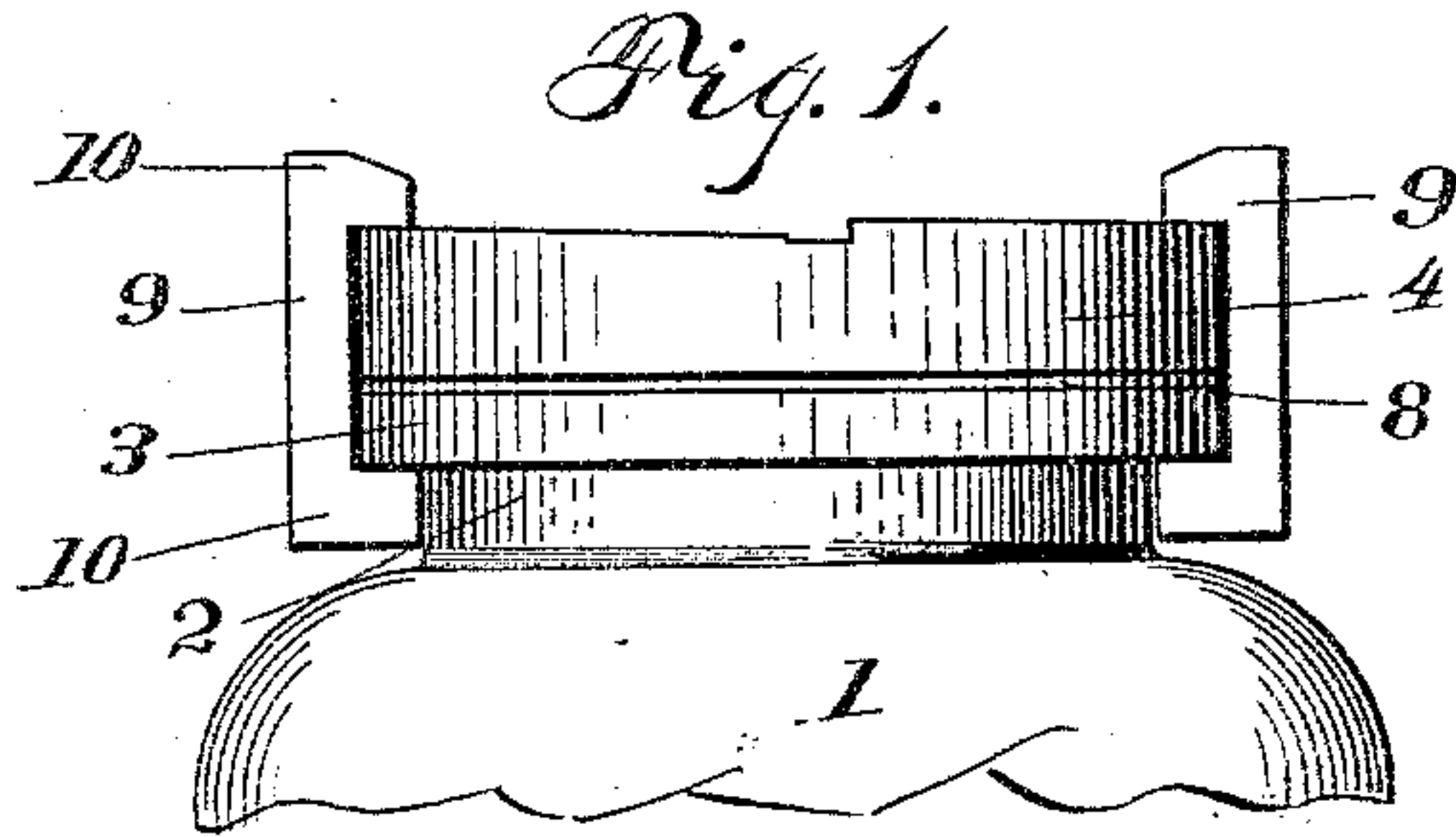


(No Model.)

W. B. McCROSKY.
CLOSURE FOR JARS.

No. 597,687.

Patented Jan. 18, 1898.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM B. McCROSKY, OF EUREKA SPRINGS, ARKANSAS.

CLOSURE FOR JARS.

SPECIFICATION forming part of Letters Patent No. 597,687, dated January 18, 1898.

Application filed April 6, 1897. Serial No. 630,937. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. McCROSKY, a citizen of the United States, residing at Eureka Springs, in the county of Carroll and State of Arkansas, have invented certain new and useful Improvements in Closures for Jars; 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.

The object of this invention is to provide a closure for jars which will permit them to be entirely submerged in ice-cold water for the purpose of keeping butter, cream, or other articles that will be likely to become spoiled if exposed to a warm temperature, the closure being also capable of application for other purposes.

With the above objects in view the invention contemplates a construction in which the neck of the jar or receptacle is formed externally with an annular flange below the mouth, and in this connection the cap or cover is provided with a depending flange which fits upon the flange of the neck or interposed gasket thereon, the cap being clamped or pressed firmly upon the gasket by means of an attachment or bar that engages the annular flange of the neck and an inclined rim formed at the upper edge of the said cap.

In the following specification I have entered into a detailed description of the parts which constitute my invention, reference being had to the accompanying drawings and to numerals marked thereon, and what I consider to be the novel features of construction are specifically recited in the claim.

In the drawings forming part of this specification, Figure 1 is a side elevation showing the application of my invention. Fig. 2 is a plan view; Fig. 3, a transverse sectional view on the line $x x$ of Fig. 2, including so much of the jar or bottle to illustrate its special construction in carrying out my invention.

Referring to the drawings by numerals, 1 designates the body of the jar or bottle, and 2 the neck thereof, the said neck being provided at a suitable distance below its upper end or mouth with an annular flange 3, extending outwardly therefrom. The upper edge of this flange is beveled from the neck

downwardly, as shown, and the said neck above the flange is undercut or slightly hollowed out, for the purpose hereinafter specified. In connection with this special construction of the neck of the bottle I employ a cap or cover 4, having peripherally a depending flange 5, the lower edge of which is beveled and slightly rounded, the said flange being of a sufficient depth to engage the annular flange of the neck or rest thereon without the central portion of the cap coming in contact with the upper end of the neck. The cap is also provided on its upper side, at the outer edge thereof, with a rim or flange which presents two inclined projections 6 at opposite sides of its diameter, the highest point of each inclined flange terminating adjoining the lowest point of the other flange, leaving a space or notches between.

When the cap is placed upon the annular flange of the neck or interposed washer 8 thereon, it is clamped or pressed by means of two bars 9, having inwardly-projecting end portions 10 10, which engage the inclined flanges of the cap and under side of the annular flange, respectively, engagement being made by first placing the bar in engagement with the flange of the neck and then passing the upper projection or head into engagement with the lowest portion of the flange by way of the notch at this point. When the bar is in this engagement, it is moved so that the upper head will travel upon the inclined flange and thus act to draw the cap or cover tightly against the gasket, sufficient force being given to form a tight joint. It will be understood, of course, that a similar bar is placed in engagement with the other flange, so that the cap will be held by engagement with opposite sides thereof. It will also be understood that instead of providing two bars which clamp the cap in position additional flanges could be formed on the cap and the number of bars increased accordingly; but in practice I have found that two bars are sufficient to thoroughly clamp the cap or cover in place.

In order to secure the proper engagement of the locking-bars with the inclined flanges or rims at the top of the cap, the said flanges or rims are beveled inward, as shown, and the heads of the locking-bars which engage

therewith are correspondingly undercut, and, if desired, the same construction could be followed out in forming the contact-surfaces of the lower end or head of the bar with the annular flange of the neck.

By providing the neck of the jar with the recess above the external flange thereon a wider gasket can be used, and it will insure the engagement of the flange of the top or cover with the center or intermediate part of the gasket. This will prevent any possibility of the gasket kinking or leaving a space that would lead to the interior of the bottle or jar. Instead of operating the locking-bars by the fingers I anticipate providing a tool for the purpose, which is constructed somewhat on the principle of the ordinary implement used in this particular, presenting a lug which embraces the neck and having one end bent to engage the locking-bar.

This invention provides a construction by which the cap may be drawn down upon the gasket with such force as to make an exceedingly tight joint and preclude any possibility of water or air finding its way into the jar or bottle, and in view of this a jar so sealed could be entirely submerged in cold water without running any risk of water finding its way therein. The closure could also be used

in sealing fruit-jars either in canning or preserving.

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

In a closure for jars, the combination with the neck, of a flange extending therefrom adjoining its upper end and having a downwardly-beveled upper edge, the neck being undercut above the flange; a cap or cover having a depending flange adapted to bear upon a gasket on the flange of the neck, said cap or cover having inclined flanges on its top at the outer edge thereof, said flanges being beveled inward; together with solid locking-bars having inwardly-projecting end portions to engage the inclined flanges of the top and external flange of the neck, the projecting portion which engages the top being beveled or undercut, substantially as shown and for the purpose set forth.

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

WILLIAM B. McCROSKY.

Witnesses:

T. ROBERTS,

O. M. CLARK.