

No. 637,740.

Patented Nov. 21, 1899.

J. D. MILLER.
MILK JAR AND TOP.

(Application filed May 1, 1899.)

(No Model.)

Fig. 1.

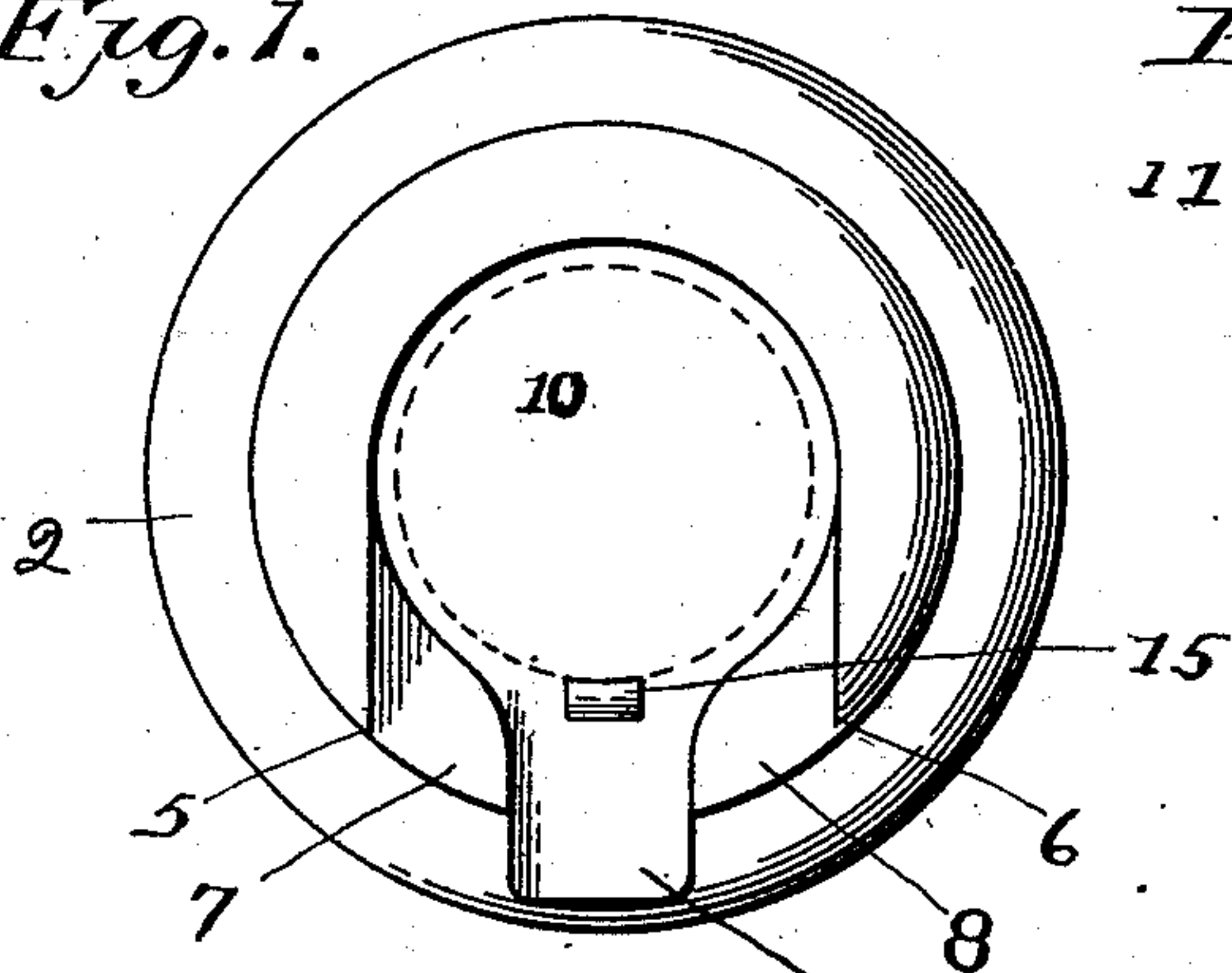


Fig. 2.

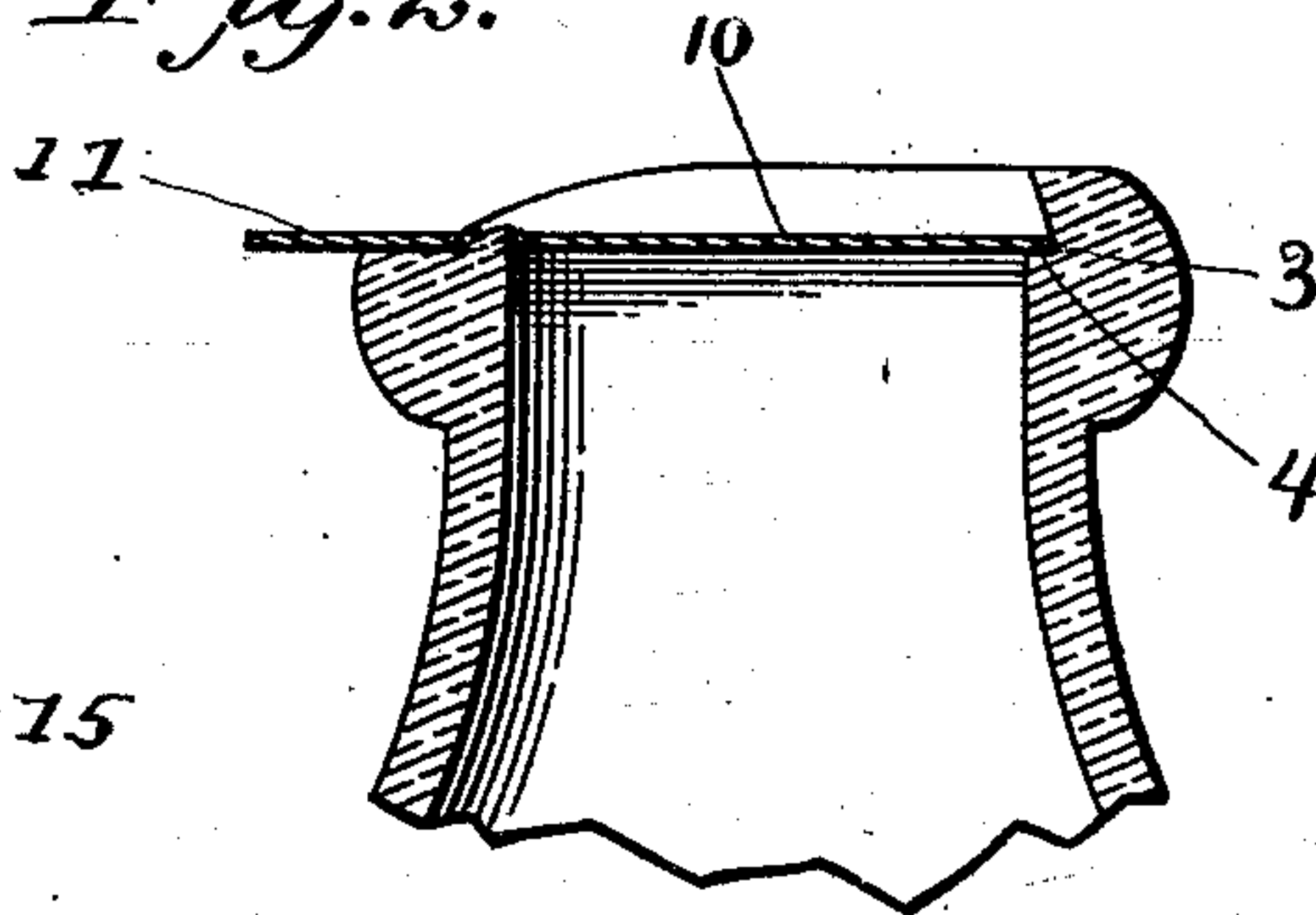


Fig. 4.

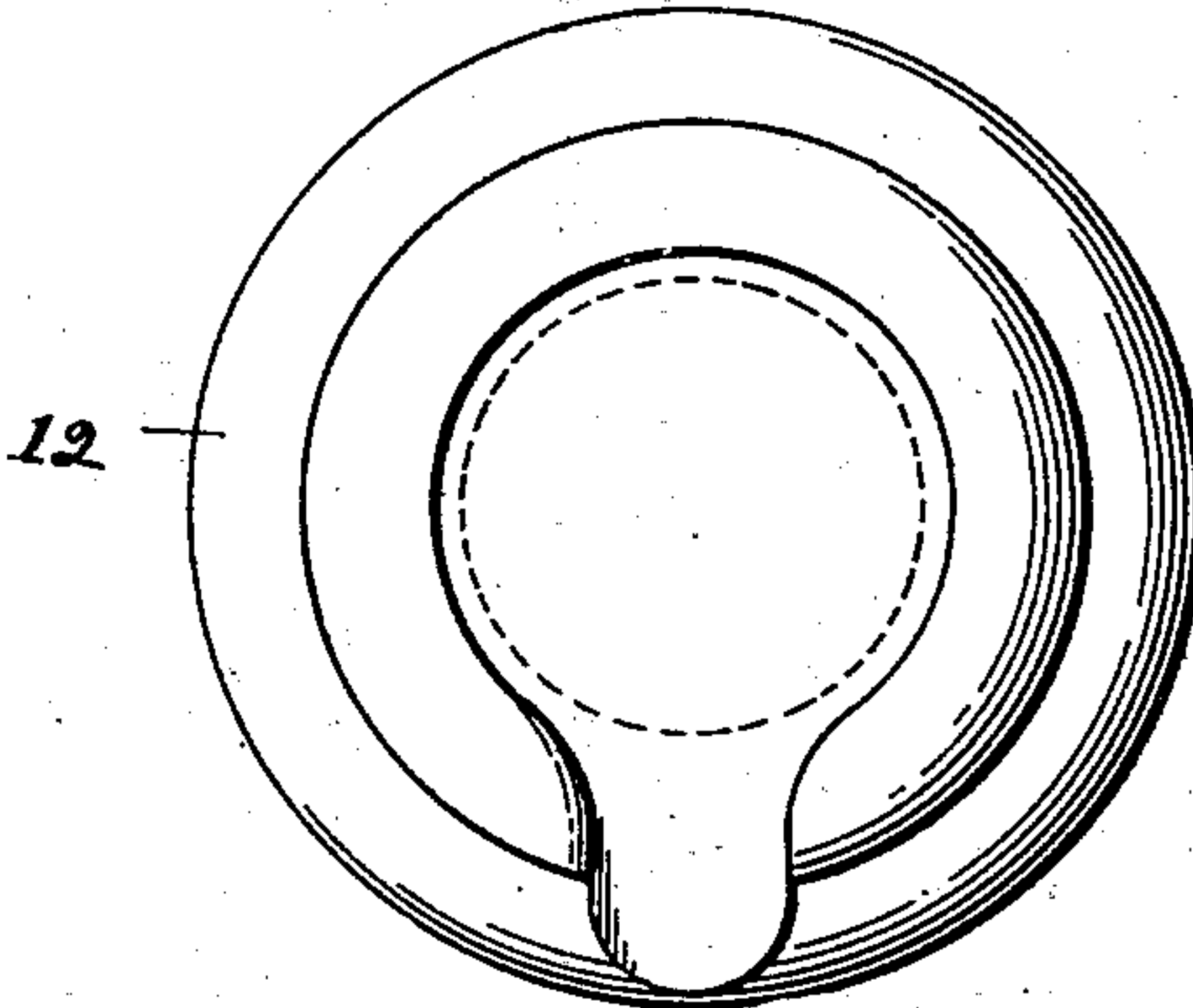


Fig. 3.

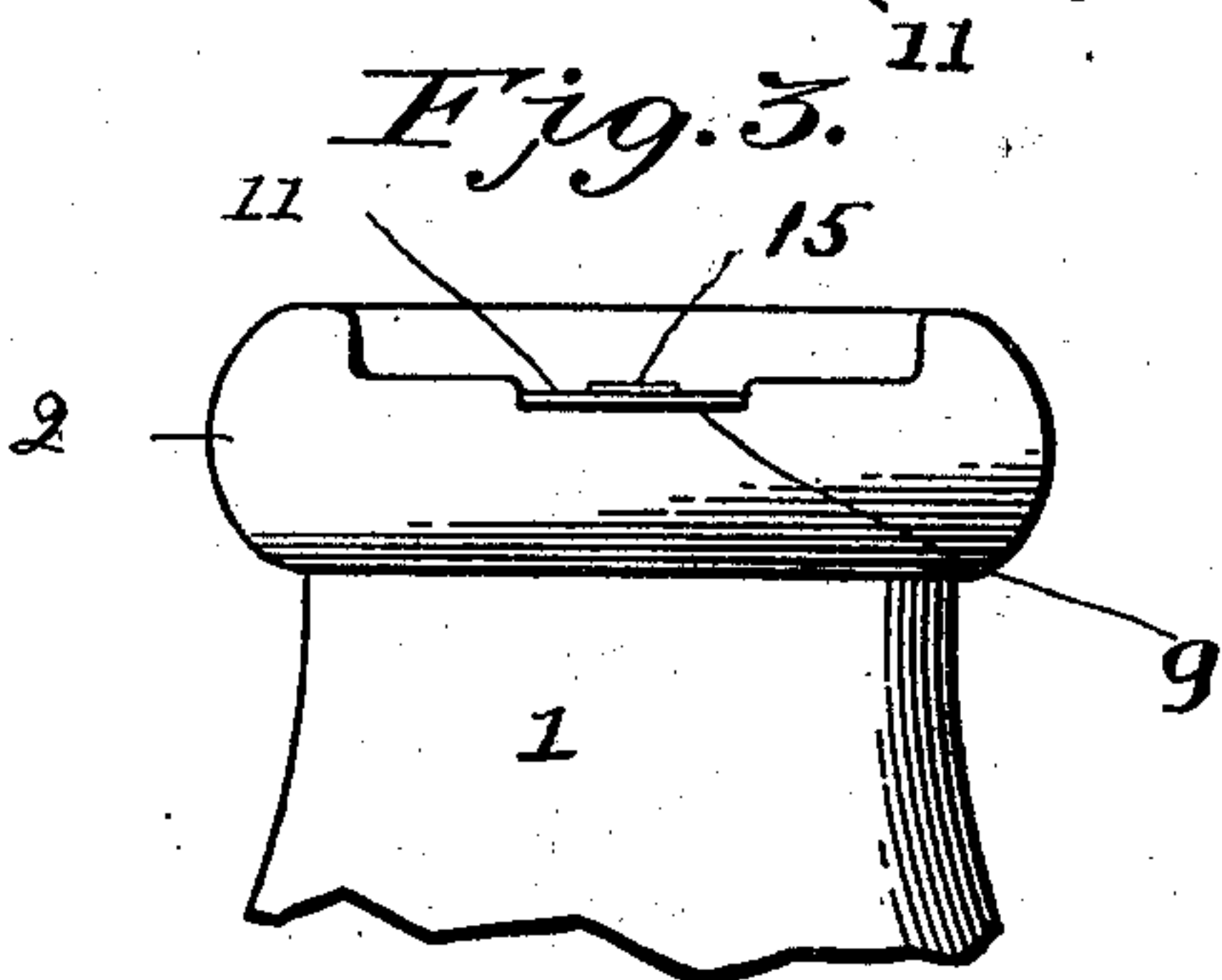


Fig. 5.

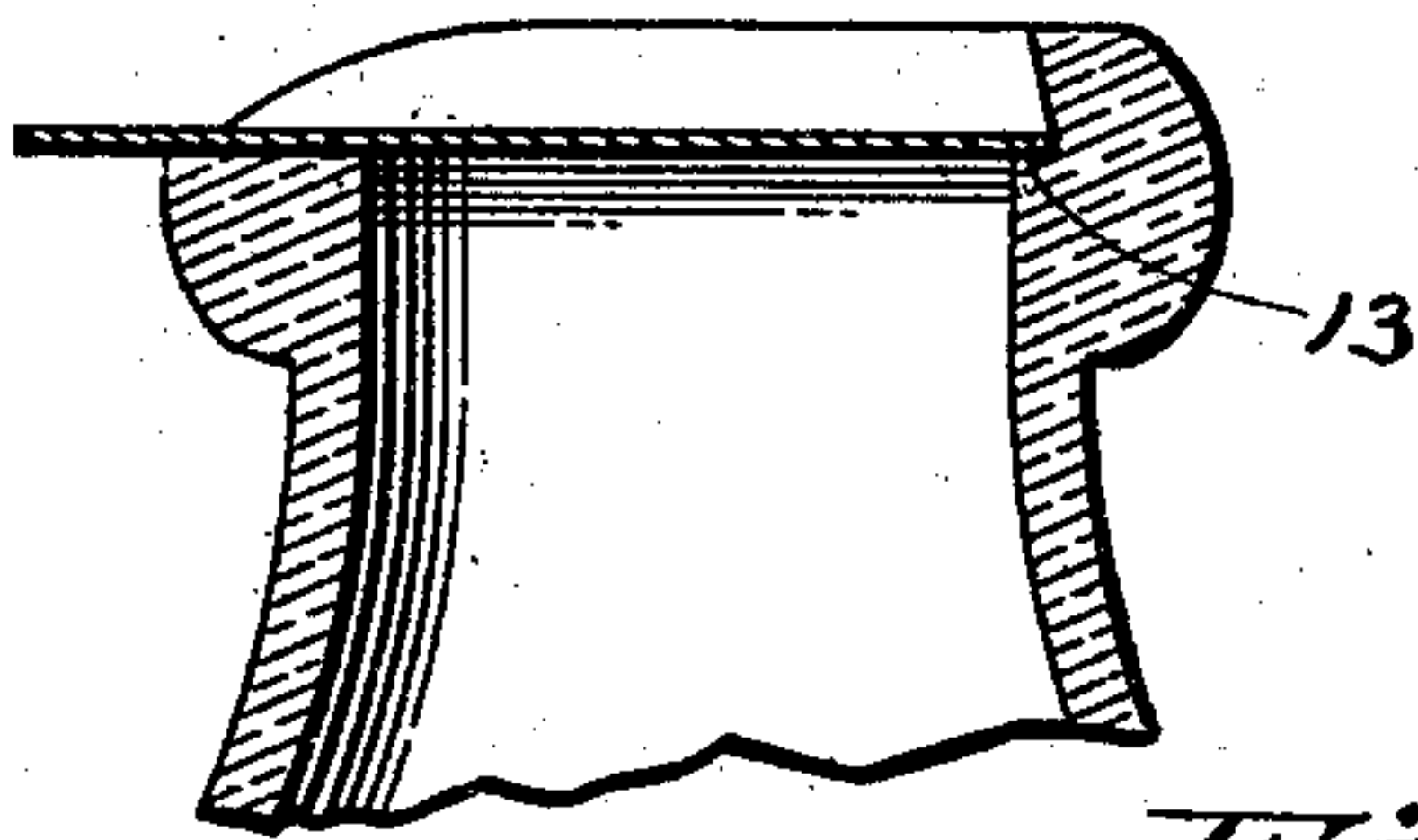


Fig. 6.

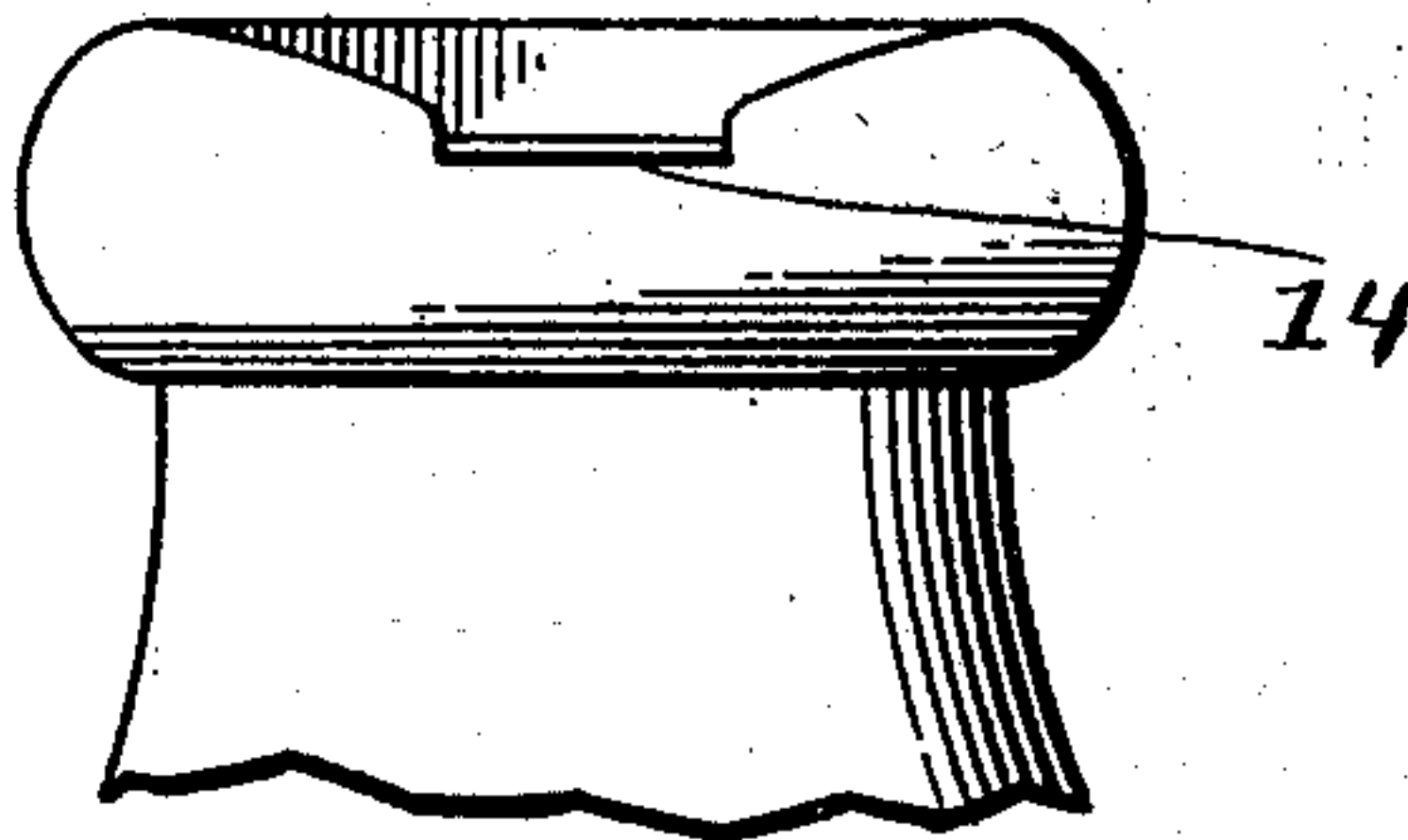
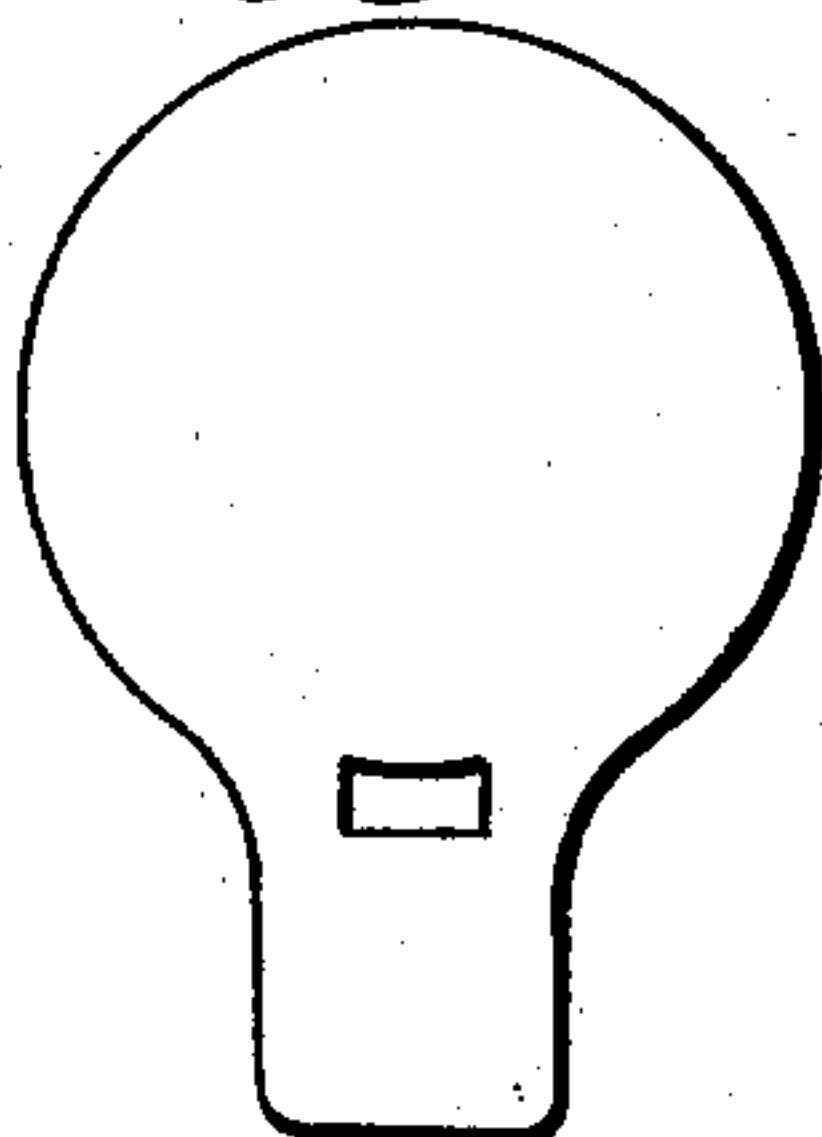


Fig. 7.



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MILK-JAR AND TOP.

SPECIFICATION forming part of Letters Patent No. 637,740, dated November 21, 1899.

Application filed May 1, 1899. Serial No. 715,209. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. MILLER, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Milk-Jars and Tops; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to bottles and jars generally, but more especially to milk-jars and tops for the same.

My invention consists of a jar having the usual round neck and opening with the heavy rounded bead on the top cut away at one point across the top, the bead being cut down about one-half. The walls formed inside of this bead are preferably dovetailed or given a slight inclination.

My invention further consists of a pliable or resilient top adapted to fit into the groove formed in the top, said top being provided with a lateral extension, which is adapted to serve as a handle.

Heretofore it has been the custom for sanitary reasons to use a paper top for all milk-jars; but it has been found in practice that said tops are liable to be damaged unless great care is taken when they are snapped into the mouth of the bottle. Again, it is somewhat difficult to remove said tops, and in removing them they are invariably damaged to such an extent that they cannot be used a second time, and this is particularly objectionable to consumers, as they have to provide an improvised cover for the jar to prevent the milk being contaminated with odors arising from vegetables, &c., in a refrigerator. Again, it is not always convenient to provide an air-tight cover.

It is the object of my invention to produce a snap-cover for milk-jars that is cheap, simple, durable, and at the same time one that is not apt to become damaged in inserting in the mouth of the bottle and one that may readily be removed from and replaced in the bottle as often as found desirable without

damage, the top being at all times an air-tight closure for the jar; and with these objects in view my invention consists of the parts and combination of parts, as will be more fully hereinafter set out.

In the drawings, Figure 1 is a top plan view of a bottle embodying my invention. Fig. 2 is a vertical central section of the same. Fig. 3 is a front elevation of my improved bottle. Fig. 4 is a top plan view of a slightly-modified construction. Fig. 5 is a vertical central section of the same. Fig. 6 is a front elevation of the same. Fig. 7 is a top plan view of the lid or cover.

1 represents a bottle or jar of approved construction.

2 is the usual bead or rounded flange formed around the mouth of the bottle, the inner wall of which is slightly inclined to form a dove-tailed groove 3. It will be seen from the sectional views that the inner walls of the mouth of the bottle are set back a slight distance from the walls of the neck of the bottle, thus forming a ledge 4 at the bottom of the walls of the mouth, which serves as an additional support to the dovetail groove for the cap or cover, the cap or cover resting upon this ledge. The bead 2 is cut away between the points 5 and 6 a distance greater than one-half the height of the inner wall between the ledge and the top of the wall, the top of the cut-away portion being flat, forming bearing-surfaces 7 and 8 for the lid or top when the top or lid is being inserted, while the points of the bead at 5 and 6 form guides for the same. The cut-away portion has a depression 9, having a flat surface. The walls of said depression are perpendicular, the same being flared outwardly toward the ledge 4. The bottom of the depression 9 is on a level with the top of the ledge 4.

10 is a top or lid of my improved bottle or jar, and it consists of a disk of paper provided with an integral extension 11 from one side of any approved shape, which serves as a handle by which the cover may be readily removed and replaced. To cap this jar, it is only necessary to place the body of the lid or cover upon the flattened portions 7 and 8 and shove it in on a slight angle until the body of the lid is entirely within a neck of a bottle,

whereupon the lid is pressed or snapped down back of the flaring walls of the depression 9 and held firmly and air-tight, the handle slipping down and resting in the depression 9. The cover may be removed by grasping the handle 11, raising the same sufficiently to clear the edge of the cover over the tops of the flared walls of the depression 9, and then by pulling outward.

10 In the modified form the walls formed inside of the bead 12 are perpendicular from the ledge 13 upward. The bead is entirely cut away or depressed from the top to a point on a level with the ledge 13 and the walls of the cut-away portion or depression 14 being tapered downward from the top of the bead to a point near the bottom of the depression, from which point they are perpendicular. The lid described hereinbefore may be used with this construction of bottle. In this construction the lid is pressed or snapped into position, the depression 14 providing for the extension of the handle. The flaring or the tapering of the walls of the depression serves as a guide for the handle toward said depression.

15 is a lug or projection formed in the depression 9 and projecting upwardly from the bottom of said depression a distance equal to the depth of the depression. The inner face of this lug is curved to agree with the curvature of the mouth of the bottle, as clearly shown in Fig. 1. The lug may be rectangular in vertical section; but I prefer to make it with a sloping top, as clearly seen in Fig. 2, inasmuch as the sloping face will not offer any perceptible obstruction to the handle when the same is lifted in the act of removing the lid from the mouth of the bottle, as will be readily understood by those skilled in this art. This lug 15, by reason of its position, serves as a bearing-point for the top or lid to more firmly hold it against the walls of the mouth of the bottle. The lid 10 is provided with an aperture or opening having three straight sides, while the fourth side is curved, as is the curved face of the lug or projection 15, whereby this opening may,

when the cover is placed in position, fit snugly around the said lug.

What I claim, and desire to secure by Letters Patent, is—

1. A bottle having a thickened bead surrounding its mouth, a dovetailed groove formed in the inner wall of said bead, a cut-away portion in said bead and a depression formed in said cut-away portion in combination with a lid or cover.

2. The combination with a bottle of a thickened bead surrounding its mouth, a dovetailed groove formed in the inner wall of said bead, a cut-away portion formed in said bead and a depression formed in said cut-away portion.

3. The combination with a bottle of a thickened bead surrounding its mouth, a dovetailed groove formed in the inner wall of said bead, a cut-away portion with perpendicular walls formed in said bead and a depression with perpendicular walls flaring outward at the rear in said cut-away portion; and a cover having a body portion and an integral laterally-extending handle.

4. A bottle having a thickened bead surrounding its mouth, a depression or cut-away formed in said bead and a lug projecting from the bottom of said depression.

5. A bottle having a thickened bead surrounding its mouth, a depression or cut-away formed in said bead and a lug having a curved inner bearing-face, said lug projecting from the bottom of said depression.

6. The combination with a bottle having a thickened bead surrounding its mouth, a depression or cut-away formed in said bead, a lug projecting from the bottom of said depression of a lid comprising a body portion, having an opening adapted to engage said lug, and an integral laterally-extending handle.

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

JOHN D. MILLER.

Witnesses:

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