

No. 881,767.

PATENTED MAR. 10, 1908.

J. R. BOSTWICK.
COVER FOR MILK PAILS.
APPLICATION FILED OCT. 9, 1907.

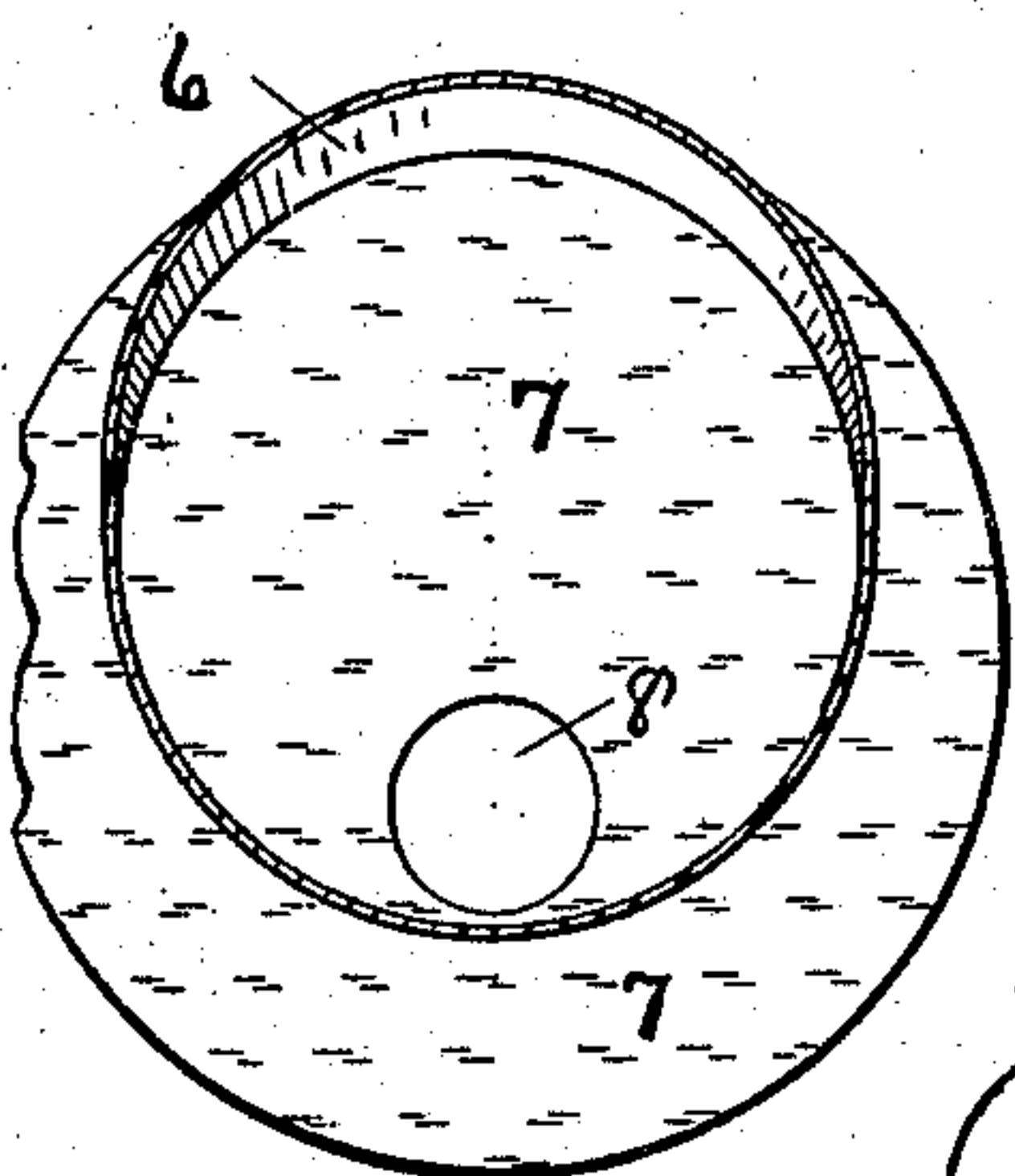
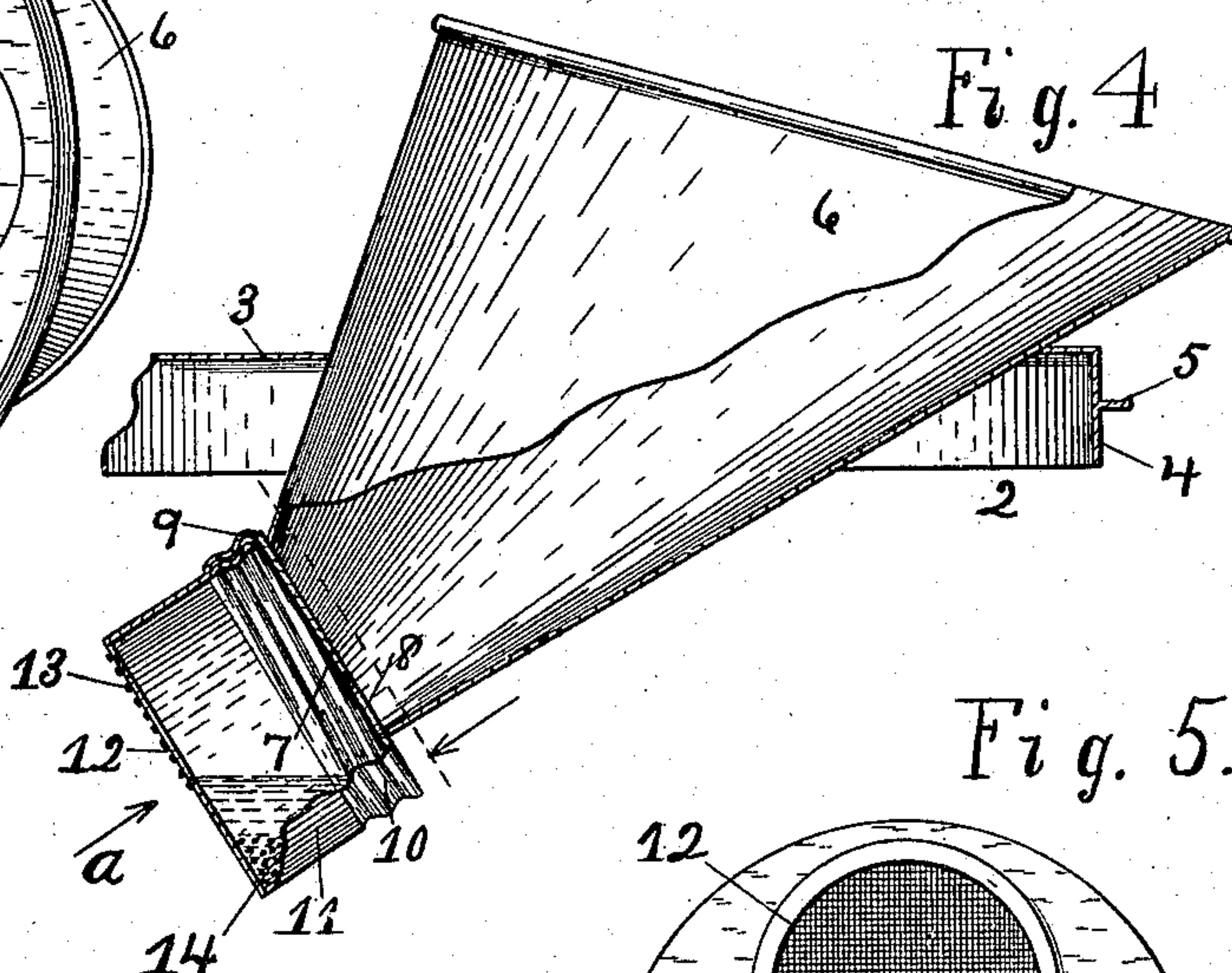
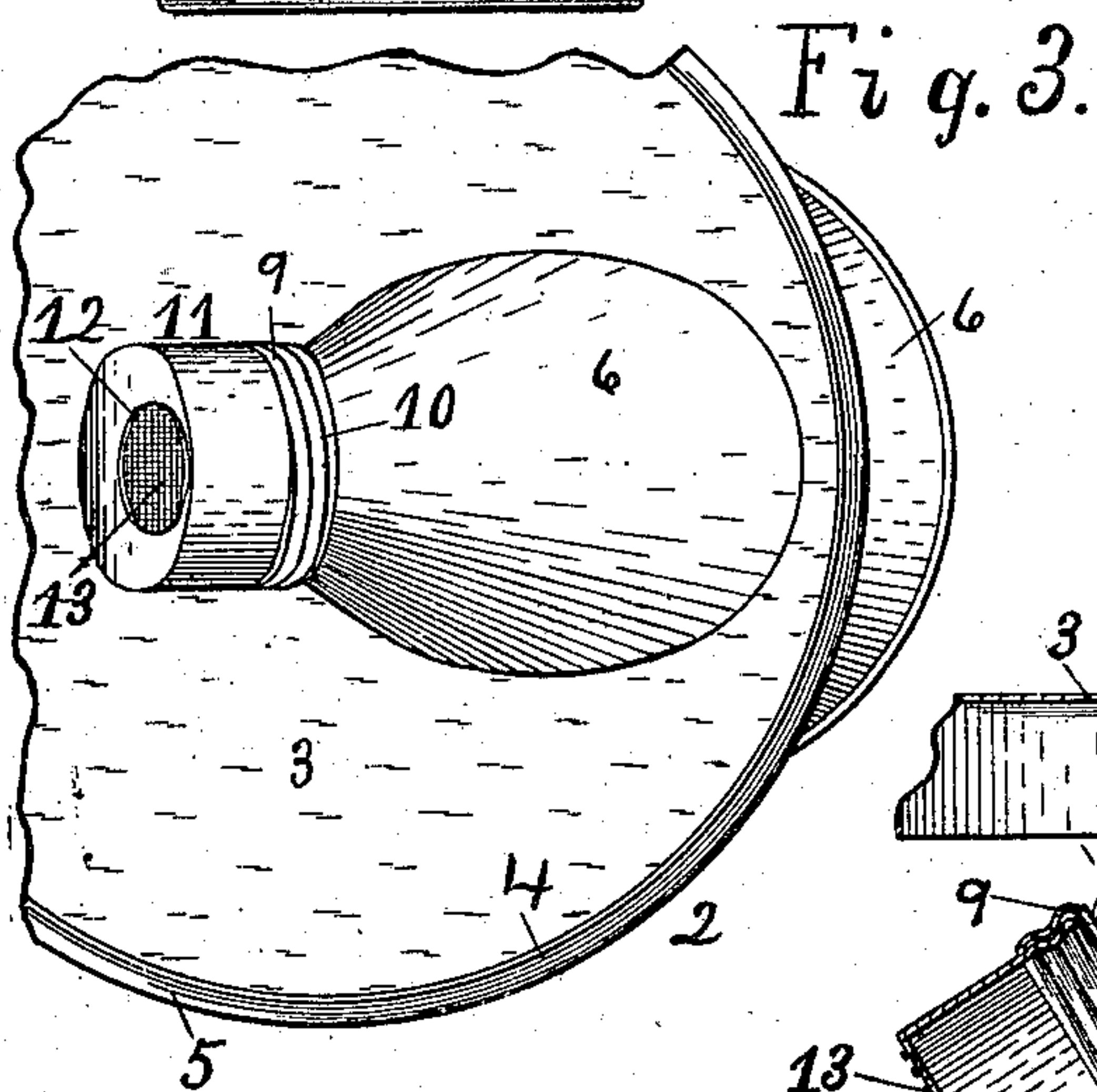
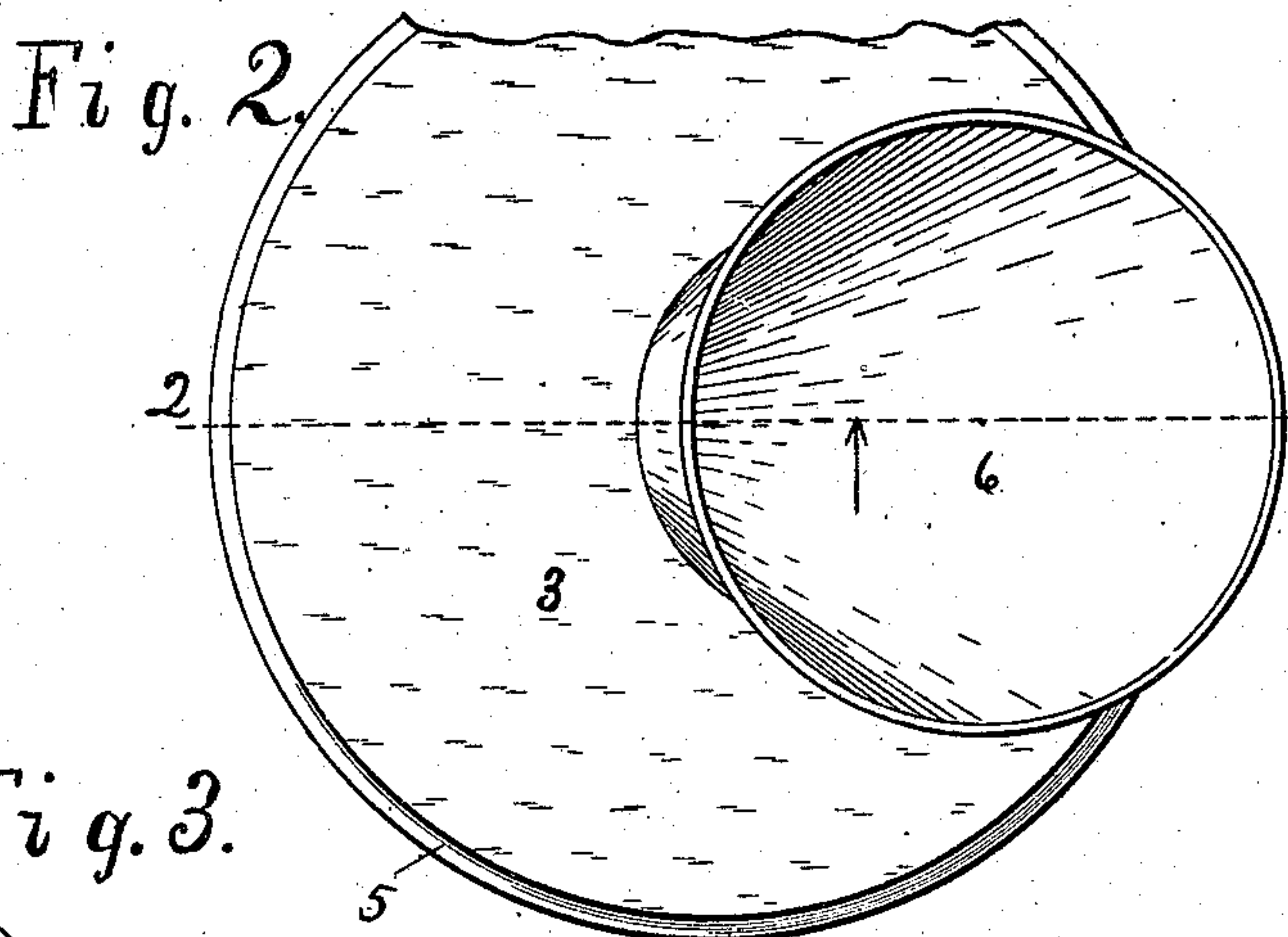
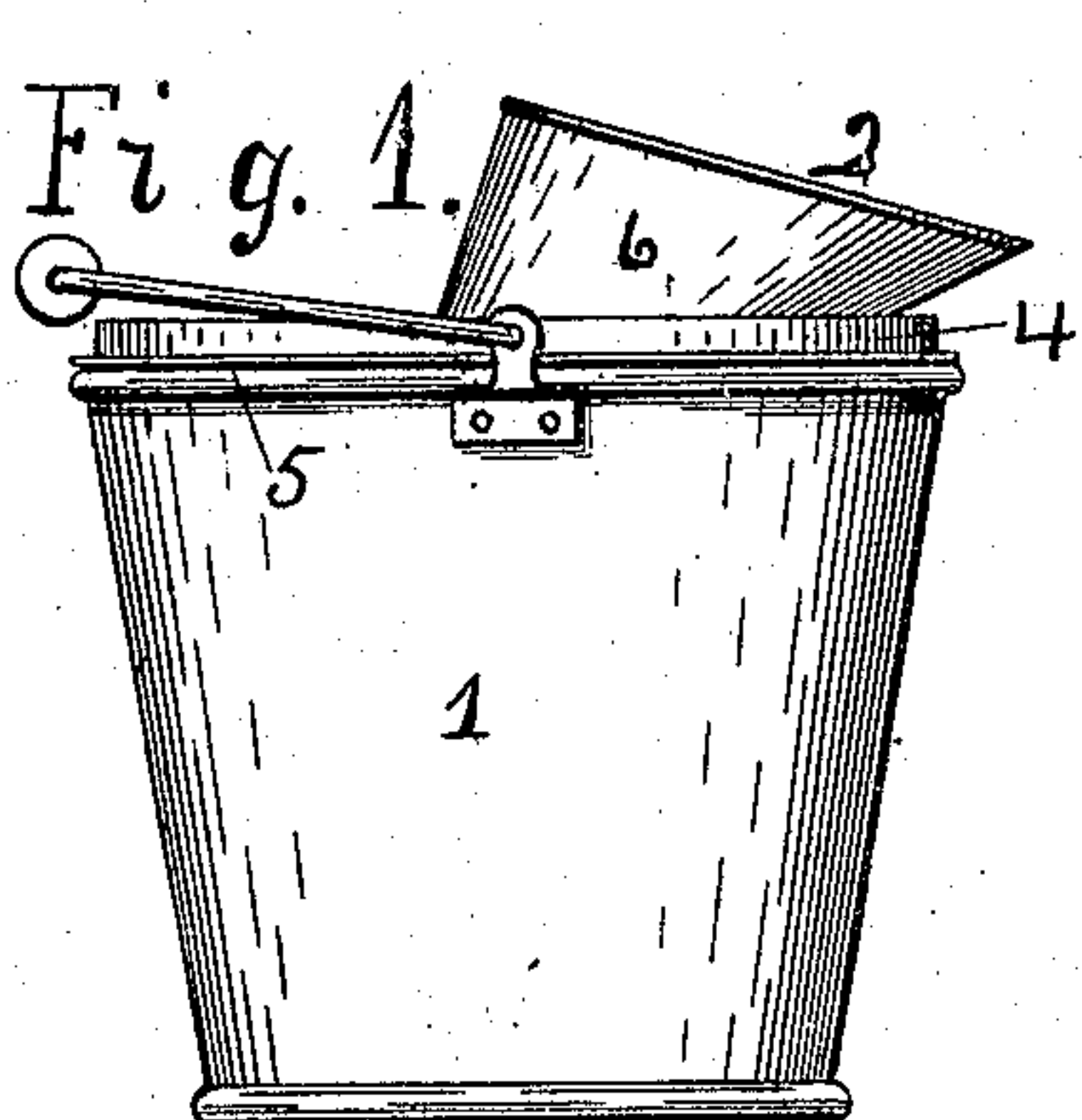


Fig. 6.

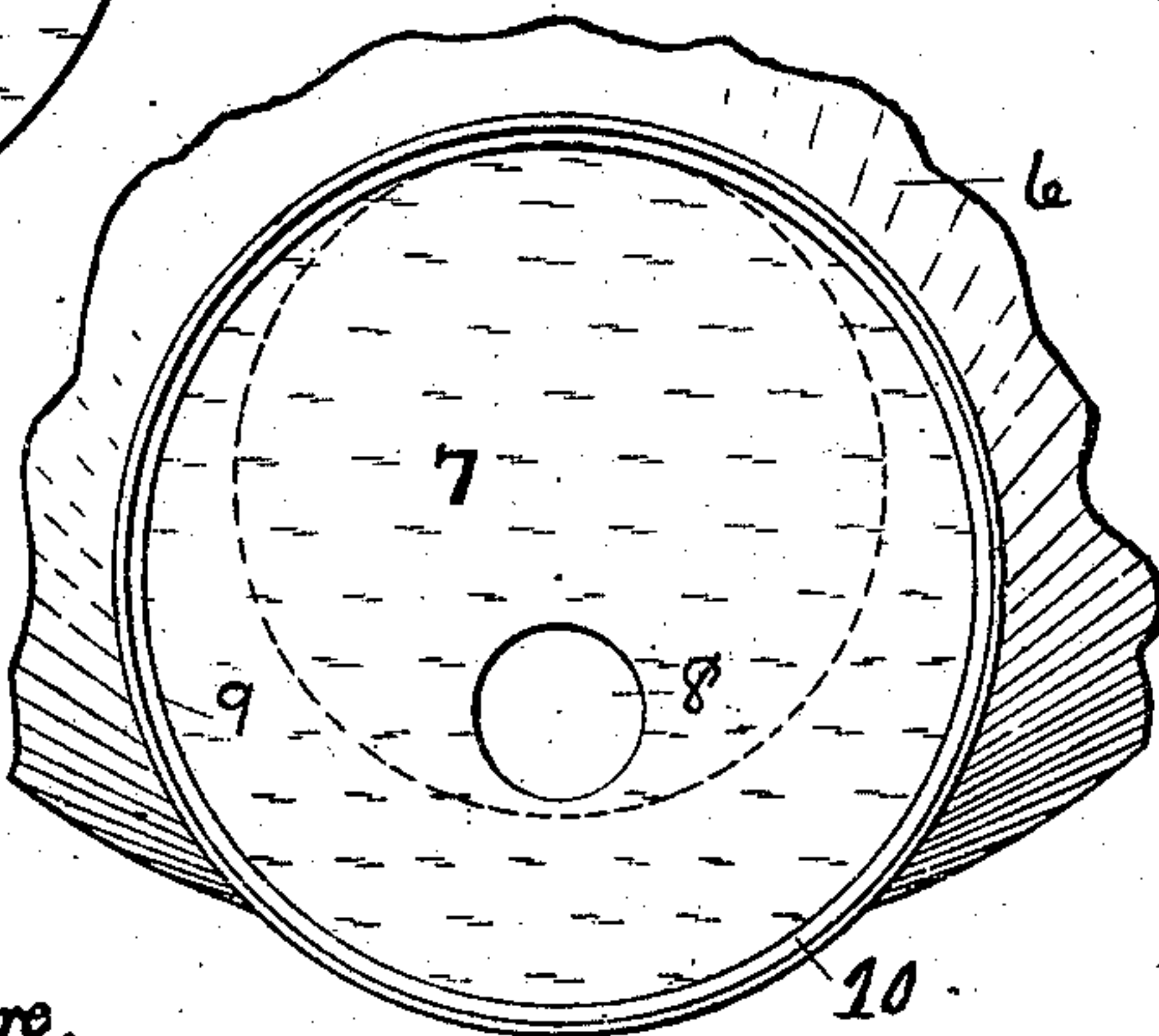
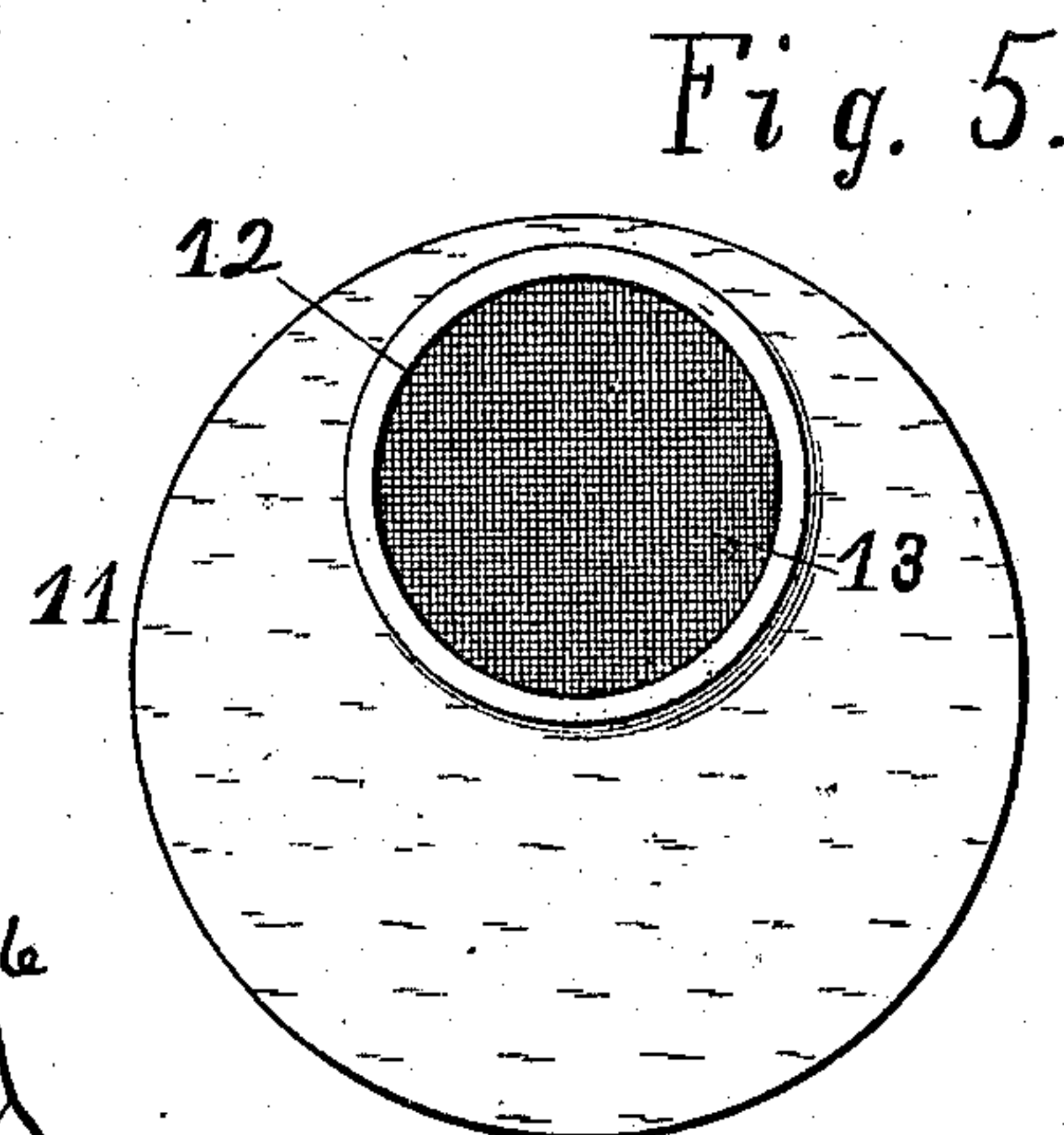


Fig. 7.



Attest:
A. M. Whitmore,
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Inventor:
John R. Bostwick,
by E. B. Whitmore, Atty.

UNITED STATES PATENT OFFICE.

JOHN R. BOSTWICK, OF CLIFTON SPRINGS, NEW YORK, ASSIGNOR OF ONE-HALF TO HENRY J. BOSTWICK, OF CLIFTON SPRINGS, NEW YORK.

COVER FOR MILK-PAILS.

No. 881,767.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed October 9, 1907. Serial No. 396,616.

To all whom it may concern:

Be it known that I, JOHN R. BOSTWICK, of Clifton Springs, in the county of Ontario and State of New York, have invented a new and useful Improvement in Covers for Milk-Pails, which improvement is fully set forth in the following specification, and shown in the accompanying drawings.

My invention relates to improvements in sanitary milk-pails in which the cover of the pail is constructed with a view to keeping out or excluding impurities or extraneous matter liable to or that might pass into the pail during the process of milking.

This invention relates to the cover of the pail, and the main object of the invention is to so form and construct the cover that dirt or other foreign substances liable to fall from the udder or from the hair of the animal while being milked will be deflected from the pail, or if any be caught in the opening of the cover with the milk it will be quickly separated therefrom and held and so not allowed to pass into the pail.

Other objects and advantages of the invention will be brought out and made to appear in the following description, and the novel construction particularly pointed out in the appended claims, reference being had to the accompanying drawing which, with the reference characters marked thereon, forms part of this specification.

Figure 1 is a side elevation of a milk-pail showing my improved cover in place thereon. Fig. 2 is a plan of the cover detached, a part being broken away. Fig. 3 is a plan of the cover inverted with a part broken away. Fig. 4 is substantially a diametrical section of the cover on the dotted line in Fig. 2. Fig. 5 is an end elevation of the removable dirt pocket seen as indicated by arrow *a* in Fig. 4. Fig. 6 is a view of the inner end of the funnel the section being on the dotted line in Fig. 4. Fig. 7 is an elevation of parts at the outer end of the funnel, view as in Fig. 5, the dirt pocket being removed.

Referring to the parts shown, 1 is a milk-pail of common kind and 2 my improved cover therefor both being commonly made of sheet metal. The cover 2 comprises a circular plate 3 of a diameter slightly less than that of the mouth of the pail, and formed at its edge with a down-turned flange 4 having a central outwardly-projecting horizontal ring

5 to rest upon the edge of the pail, as clearly shown in Fig. 1, the part of the flange 4 below the ring telescoping within the pail to form a close joint. 6 is a hollow conical body or funnel obliquely piercing and rigid with the plate 3, near one side, projecting some distance above and below the plate, as clearly shown in Fig. 4, with its outer or large end open and uncovered for receiving the milk drawn from the udder.

The small or inner end of the funnel 6 is closed by a transverse sheet or plate 7, Figs. 4, 6 and 7, pierced with an opening 8 at the lower side of the funnel for the outflow of the milk. The plate 7 is larger in diameter than the adjacent end of the funnel and preferably disposed eccentrically therewith, its lower edge projecting below the wall of the funnel, the plate being formed with a flange 9, Figs. 3, 4 and 7, to receive removably a cylindrical cup or hollow body 11, Figs. 3, 4 and 5, for catching and holding any dirt or extraneous substances that may enter the funnel 6 and pass out through the opening 8 with the outflowing milk.

The manner of joining the cup 11 to the flange 9 is immaterial to this invention, as any way that will cause the cup to remain securely in place when needed and be readily removable from the flange, will serve the purpose intended, but I sometimes corrugate the flange spirally, like a coarse screw-thread 10, and correspondingly corrugate the associated end-portion of the cup so that it will screw removably into said flange, as shown in Figs. 3 and 4, its inner end being open and touching the plate 7. The outer end of the part 11 is closed save as to an opening 12 near its upper side or wall, covered by a fine wire gauze or netting 13, constituting a fine strainer for the milk finally passing from the funnel 6 into the pail 1. The dirt or other foreign substances entering the funnel 6, being heavier as to specific gravity than the milk, will settle in the lower corner or space 14 of the part 11, and not, ordinarily, rise to the high opening 12 of said part 11 any of which, if it should seek to escape through said opening, being caught by the gauze 13 and kept from passing into the pail. The screw cup 11 being readily removable at any time may be emptied of the sediment contained and all the parts thus readily cleansed and put in order for further use.

What I claim as my invention and desire to secure by Letters Patent is:—

1. A pail cover having a disk, and a funnel obliquely piercing the disk with its small end beneath, a perforated closure for said small end, and a chamber outside of the closure disposed obliquely to said disk.
2. A pail cover having a circular disk, and a funnel piercing the disk with small end beneath, a perforated closure for the funnel, and a chamber without the closure, having an opening above the lower edge, and a sheet of gauze covering said opening.
3. A cover for a pail, having a disk and a funnel piercing the disk eccentrically and in an inclined direction with its small end beneath the disk, a perforated closure for the small end of the disk, and a perforated removable cup joined to the closure.
4. A cover for a pail, having a disk and a tapered funnel piercing the disk obliquely with its large end open and above the disk and its small end below the disk and closed by a flanged plate with an opening therein, and a cup joined to the flange of the plate by a threaded connection, the cup having an opening at the bottom covered with gauze.
5. A cover for a pail, having a disk and a tapered funnel piercing the disk obliquely with its large end open and above the disk and its small end below the disk and closed by a flanged plate with an opening therein, and a cup joined to the flange of the plate by a threaded connection, the cup having an opening through the bottom covered with gauze, the centers of the openings in the plate and the cup being in a vertical plane and one higher than the other.
6. A pail cover having a circular disk to

close the pail, a funnel piercing the disk with its small end beneath, a perforated closure for said small end, and a cylindrical chamber without the inclosure, said chamber and the adjacent end of the funnel being eccentric.

7. A cover for a pail, having a disk and a tapered funnel piercing the disk, a circular perforated closure for the small end of the funnel eccentric with the latter, a cylindrical dirt pocket held by the closure, said pocket being eccentric with the funnel, extending below the latter and the opening in the closure, with its axis forming an angle with the axis of the funnel.

8. A pail cover having a circular disk with peripheral flange having outlying ring to meet the mouth of the pail, a funnel piercing the circular disk open at its upper large end and closed at its lower end with a perforated plate, and a dirt pocket without the plate.

9. A cover for a milk pail, comprising a disk with an opening eccentrically disposed, a funnel piercing said opening obliquely to the plane of said disk, a plate at the lower end of said funnel and having an eccentrically-disposed opening near its lower side, and a removable cup disposed obliquely at the lower side of said funnel and having an opening in its bottom near its upper side, whereby the lower portion of said cup forms a dirt receptacle below the plane of the opening therein.

In witness whereof, I have hereunto set my hand this 5th day of October, 1907, in the presence of two subscribing witnesses.

JOHN R. BOSTWICK.

Witnesses:

CHARLES G. WATERS,
HENRY J. BOSTWICK.