

No. 815,062.

PATENTED MAR. 13, 1906.

W. H. BENNETT.

CLOSURE FOR CREAM AND MILK JARS OR BOTTLES.

APPLICATION FILED NOV. 27, 1905.

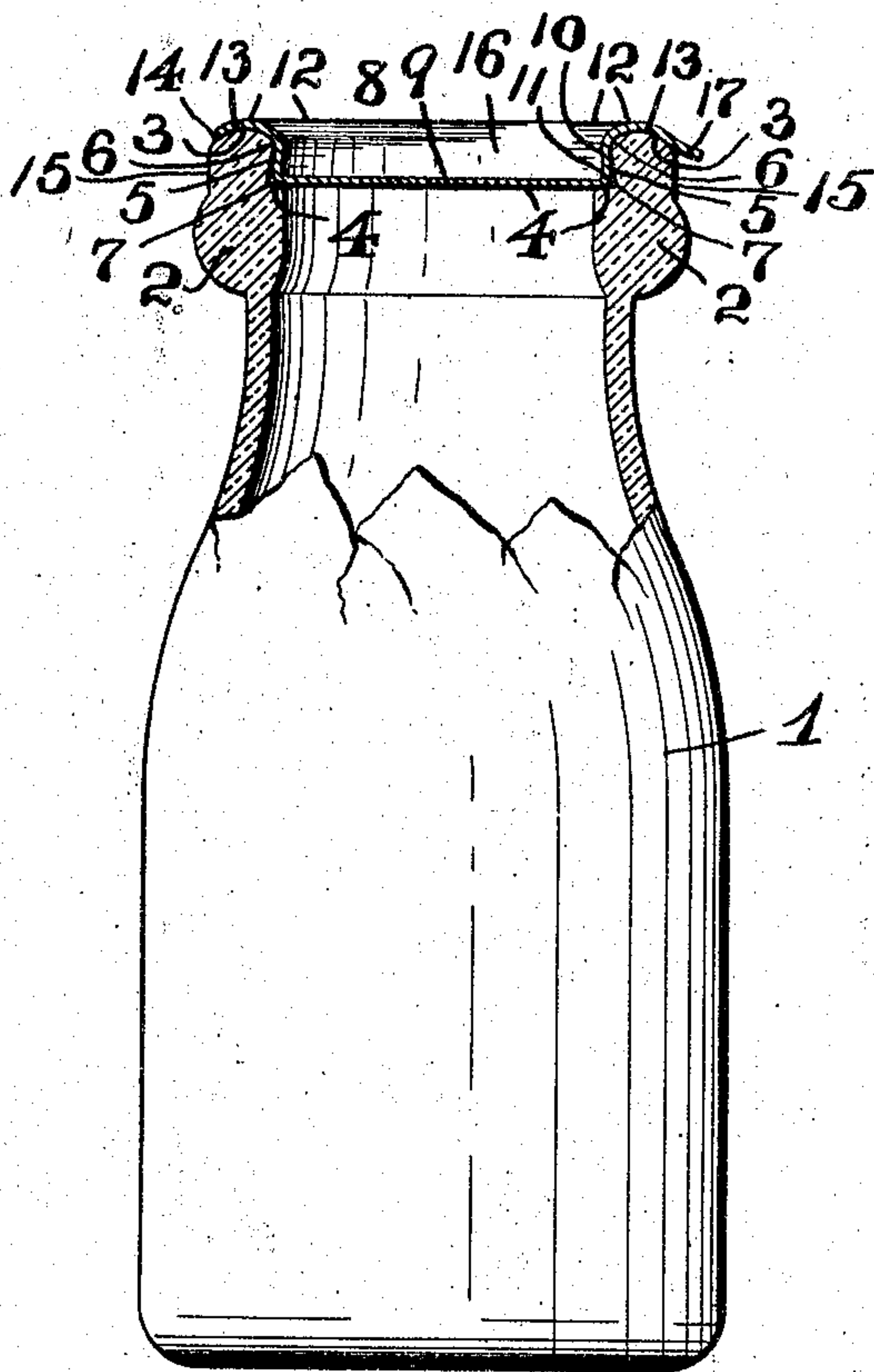


FIG. 1

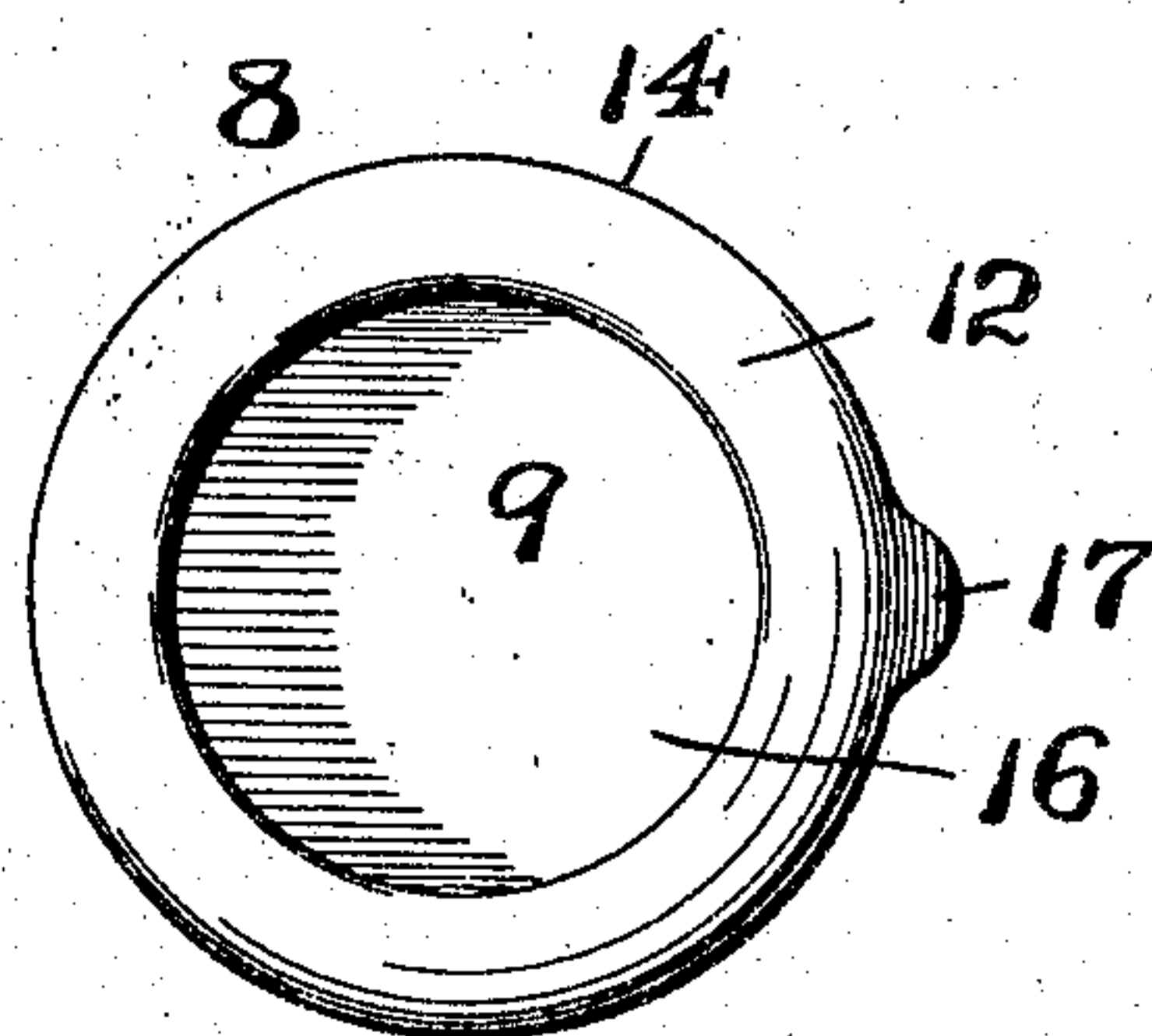


FIG. 2

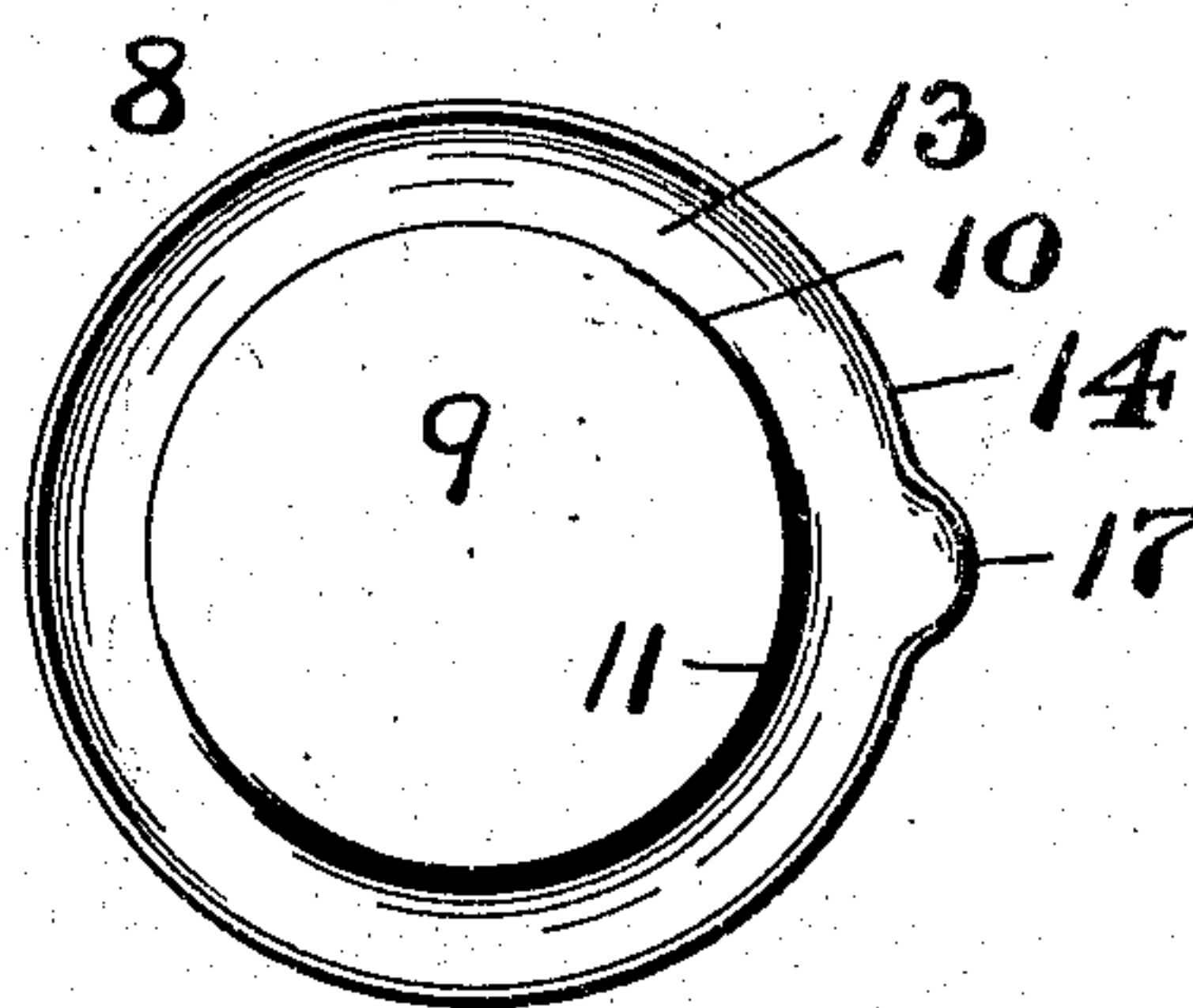


FIG. 3

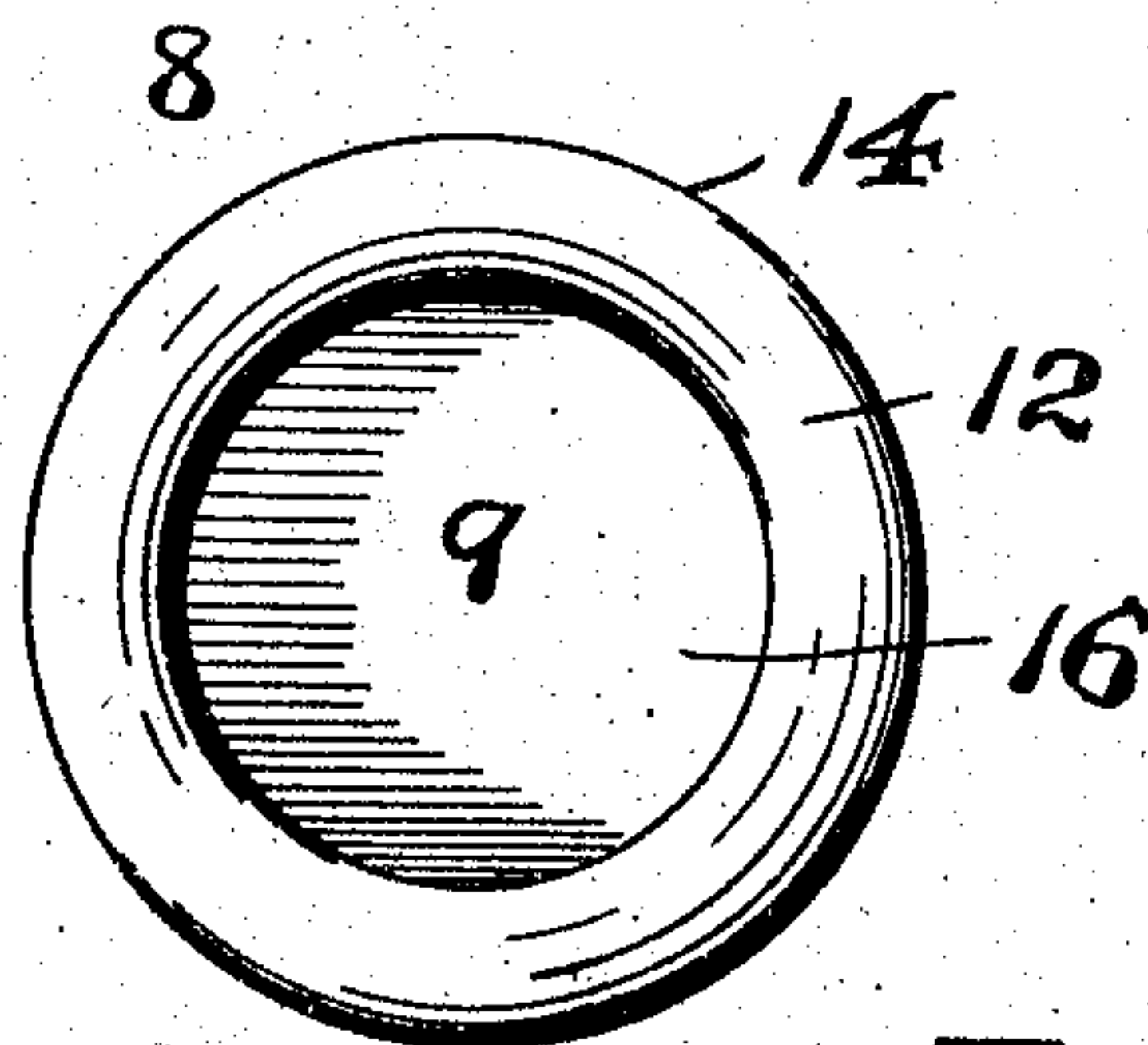


FIG. 4

WITNESSES:

Geo. S. Richards.
F. H. W. Fraentzel

INVENTOR:

William H. Bennett,

BY

Fred C. Fraentzel
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM H. BENNETT, OF NEWARK, NEW JERSEY.

CLOSURE FOR CREAM AND MILK JARS OR BOTTLES.

No. 815,062.

Specification of Letters Patent.

Patented March 13, 1906.

Application filed November 27, 1905. Serial No. 289,152.

To all whom it may concern:

Be it known that I, WILLIAM H. BENNETT, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Closures for Cream and Milk Jars or Bottles; 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates generally to improvements in jar-closures; and the invention has reference more particularly to a novel construction of cap made of metal or other material which acts as a closure or seal for the mouths of jars or bottles which usually contain cream or milk.

The principal object of the present invention is to provide a simply-constructed metal seal or cap for the jars or bottles in which cream or milk is dispensed with a view of providing a seal or cap which is easily forced in place in the mouth of the jar or bottle and is just as readily removed therefrom without injury to the seal or cap, so as to be used over and over many times.

A further object of this invention is to provide a seal or cap which is not liable to injury from pressure and water of the ice when the closed jars or bottles are packed in cracked ice and to provide a seal or cap which cannot be forced into the interior of the jar or bottle and which while it prevents any water from the ice percolating into the jar or bottle to the detriment of the cream and milk catches the water and dirt from the melting ice in a depression with which the seal or cap is made to be removed with the seal or cap when forced from its closed relation with the mouth of the jar or bottle or to be removed from the seal or cap by washing prior to the forcing of the seal or cap from the mouth of the jar or bottle without any possibility of the water getting into the interior of the jar or bottle.

A further object of this invention is to provide a seal or cap which cannot be punctured with the tines of a fork or other sharp instrument for removal of the seal or cap, as is now ordinarily the custom in removing the usual pasteboard or cardboard seals used with the

jars or bottles in which cream or milk is placed on sale.

Other objects of this invention not at this time more particularly specified will be clearly understood from the following detailed description of this invention.

With the various objects of my present invention in view the said invention consists, primarily, in the novel closure or seal for cream or milk jars and bottles hereinafter more fully described and then finally embodied in the clauses of the claim which are appended to and which form an essential part of the accompanying specification.

The invention is fully illustrated in the accompanying drawings, in which—

Figure 1 is a view of the usual glass bottle adapted to contain milk or cream, the mouth or upper part of the bottle being shown in section, and a transverse sectional representation of the closure or seal in its sealed or closing relation with an annular seat in the mouth of the bottle. Fig. 2 is a top view, and Fig. 3 a bottom view, of the said closure or seal provided with a lifting means or finger-piece; and Fig. 4 is a top view of a closure or seal of a slightly-modified construction, but still embodying the leading features of this invention.

Similar characters of reference are employed in the said above-described views to indicate corresponding parts.

Referring now to the said drawings, the reference character 1 indicates any one of the usual glass jars or bottles in which cream or milk are dispensed, the said bottle being made with a mouth portion 2, having the rounded edge portion 3 and provided upon its interior with an annular seat 4. The surrounding surface 5 of the mouth portion 2, located directly above this annular seat 4, tapers outwardly substantially in a manner shown in Fig. 1 of the drawings, so that the upper part of the inner cylindrical surface of the mouth of the bottle is contracted, so as to be smaller at the diametrically located points 6 than directly across any two oppositely-located points in the circular edge 7, formed by the annular seat 4 and the surrounding and outwardly-tapering surface 5 for the purposes to be presently more fully described.

The cap or seal embodying the principles of the present invention is indicated by the reference character 8. The said closure or

cap may be spun or stamped in sheet metal or pressed in paper or other suitable material, the same being formed with a base or bottom 9, which is surrounded by an upwardly-extending marginal flange 10, said flange being made to taper slightly in an outward direction, but the taper of said flange 10 being of a less degree than the angular inclination or taper of the surface 5 and the external diameter at the rounded marginal edge 11 of the said base or bottom 9 and the flange 10 being slightly greater than the distance across any two of the oppositely-located points 6 in the contracted part of the mouth of the jar or bottle. Extending outwardly from the upper portion of the said flange 10 is a marginal part or sealing member 12, preferably made concavo-convex in cross-section, as shown, the concaved surface 13 of the said part or sealing member 12 conforming or corresponding to the convex or rounded edge portion 3 of the mouth portion 2. The circular marginal edge 14 of the said part or member 12 terminates when the cap or seal has been sprung or fitted in the mouth of the jar or bottle at points closely located in the cylindrical surface portion 15 of the bottle, substantially as shown. The said closure or cap when made of metal or paper has sufficient flexibility so that the rounded edge portion 11 is easily forced with a binding-snap over the inner contracted part of the mouth of the jar or bottle, the parts being of such proportion that the surrounding edge portion of the bottom or base 9 is immediately located upon the annular seat 4, and the part or sealing member 12 of the resilient cap or closure is snugly fitted upon the upper and rounded edge portion 3 of the jar or bottle. In this manner a seal or closure having a receiving depression 16 is provided for a cream or milk bottle or jar which is easily forced or pressed into place in the mouth of the bottle or jar to prevent any foreign matter from percolating into the jar and which has sufficient strength so that it cannot be damaged by the weight of the cracked ice in which the filled bottles or jars are usually stored. The closure or seal is readily removed by a slight pressure by means of the thumb-nail or a sharp instrument applied in an upward direction beneath the marginal edge 14 of the part or member 12 when the seal or cap is made in the manner shown in Fig. 4 of the drawings; but, if desired, the said part or member 12 may be formed with an outwardly-extending lip or projection 17, which can be used as a lift or finger-piece for removing the closure or cap from its sealed or closing relation within the mouth of the jar or bottle.

What I claim is—

1. A seal or cap for cream or milk jars or bottles, comprising a base, an upwardly-extending and tapering flange, said base and flange being joined by a rounded marginal

edge, and an annular sealing member of a concavo-convex cross-section extending outwardly from the upper edge of said flange, said base and flange forming a receiving depression, substantially as and for the purposes set forth.

2. A seal or cap for cream or milk jars or bottles, comprising a base, an upwardly extending and tapering flange, said base and flange being joined by a rounded marginal edge, and an annular sealing member of a concavo-convex cross-section extending outwardly from the upper edge of said flange, said base and flange forming a receiving depression, and a finger-piece extending outwardly from the marginal edge of said annular sealing member, substantially as and for the purposes set forth.

3. In a cream or milk jar or bottle, the combination, with the mouth of the said jar or bottle, provided with an inner annular seat, of a seal or cap comprising a base, and an upwardly-extending flange adapted to be fitted directly upon said seat, and an annular sealing member extending outwardly from the upper edge of said flange, said base and flange forming a receiving depression extending into the mouth of the jar or bottle directly above said seat, and said sealing member being fitted directly upon the upper surrounding edge portion of the mouth of the jar or bottle, substantially as and for the purposes set forth.

4. In a cream or milk jar or bottle, the combination, with the mouth of the said jar or bottle, provided with an inner annular seat, of a seal or cap comprising a base, and an upwardly-extending flange adapted to be fitted directly upon said seat, and an annular sealing member extending outwardly from the upper edge of said flange, said base and flange forming a receiving depression extending into the mouth of the jar or bottle directly above said seat, said sealing member being fitted directly upon the upper surrounding edge portion of the mouth of the jar or bottle, and a finger-piece extending outwardly from the marginal edge of said annular sealing member, substantially as and for the purposes set forth.

5. In a cream or milk jar or bottle, the combination, with the mouth of the said jar or bottle, said mouth being provided with an annular seat, an inclined or tapering surface portion, and an upper convex edge portion, of a seal or cap comprising a base having its marginal edge portion fitted upon said seat, an upwardly-extending and inclined or tapering flange connected with said base, the taper of said flange being of a less degree than the taper of said inclined or tapering surface portion of the mouth of the jar or bottle, said base and flange forming a receiving depression extending into the mouth of the jar or bottle directly above said seat, and an annular seal-

ing member of a concavo-convex cross-section extending outwardly from the upper edge of said flange, the said concaved surface of the said sealing member being fitted directly upon the upper convex edge portion of the mouth of the jar or bottle, substantially as and for the purposes set forth.

6. In a cream or milk jar or bottle, the combination, with the mouth of the said jar or bottle, said mouth being provided with an annular seat, an inclined or tapering surface portion, and an upper convex edge portion, of a seal or cap comprising a base having its marginal edge portion fitted upon said seat, an upwardly-extending and inclined or tapering flange connected with said base, the taper of said flange being of a less degree than the taper of said inclined or tapering surface portion of the mouth of the jar or bottle, said

base and flange forming a receiving depression extending into the mouth of the jar or bottle directly above said seat, an annular sealing member of a concavo-convex cross-section extending outwardly from the upper edge of said flange, the said concaved surface of the said sealing member being fitted directly upon the upper convex edge portion of the mouth of the jar or bottle, and a finger-piece extending outwardly from the marginal edge of said annular sealing member, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 25th day of November, 1905.

WILLIAM H. BENNETT.

Witnesses:

FREDK. C. FRAENTZEL,
GEO. D. RICHARDS.