

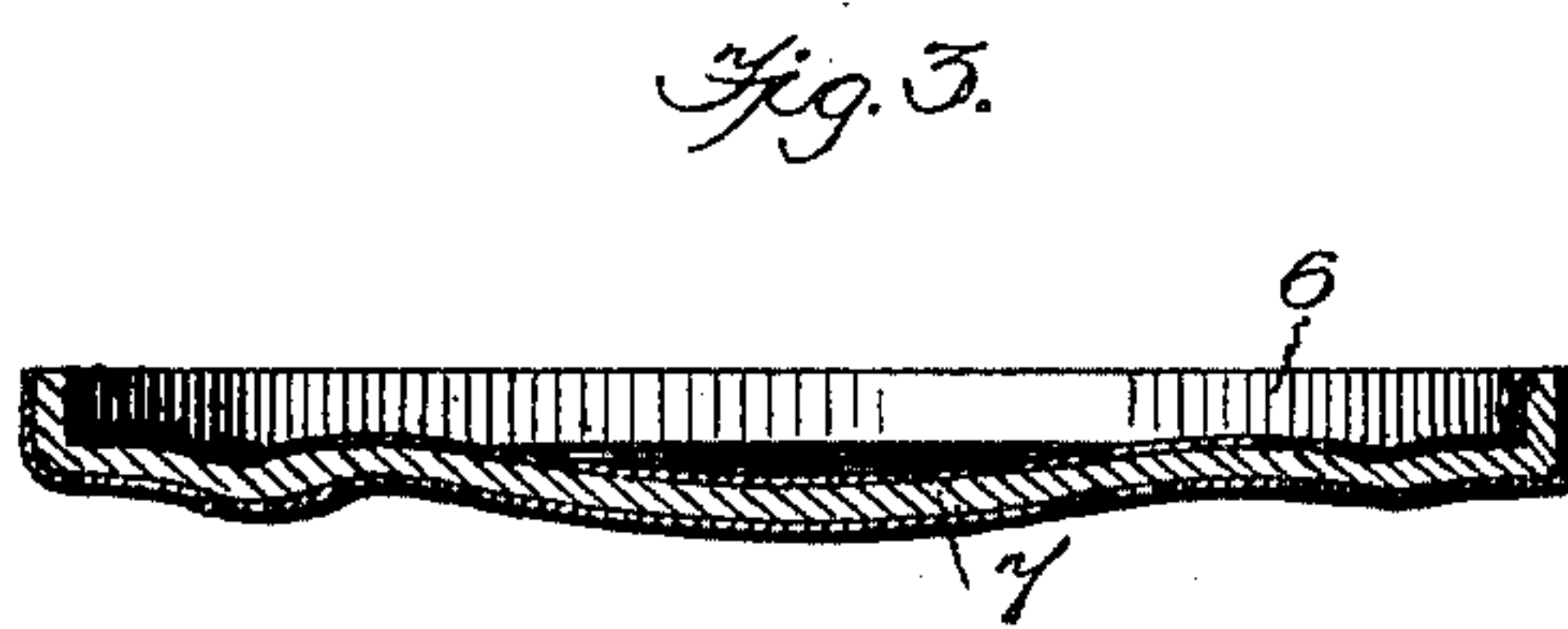
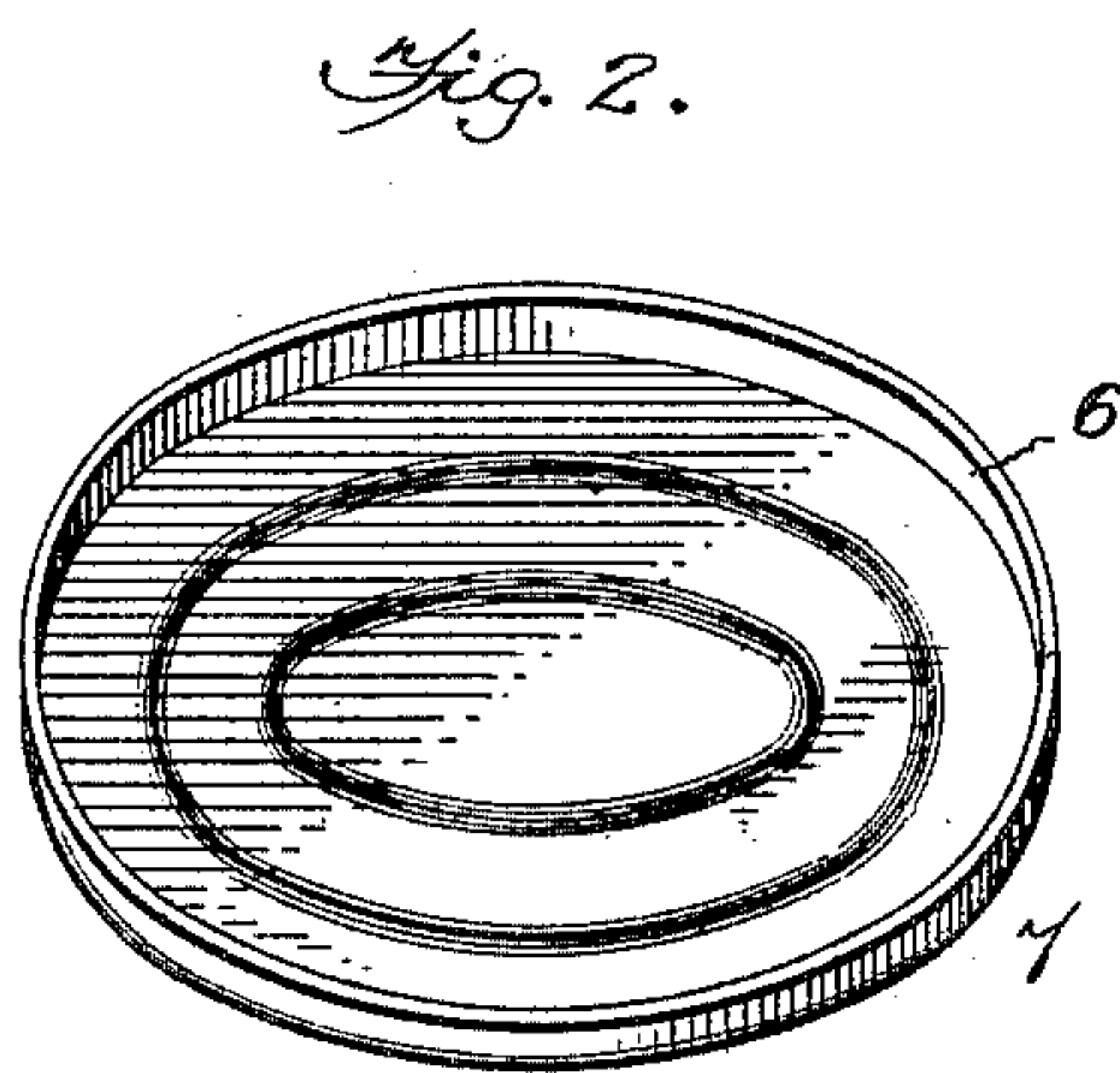
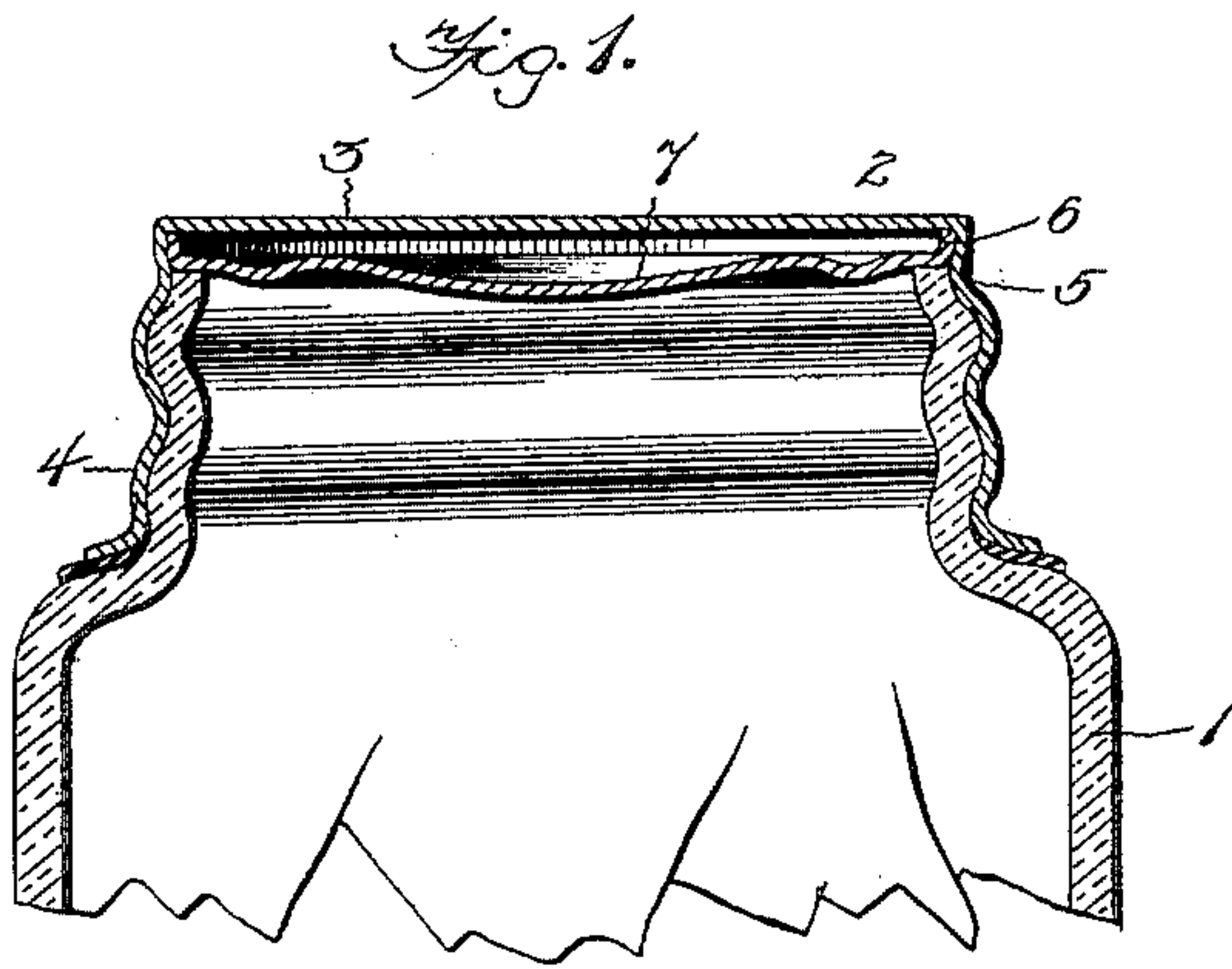
No. 668,005.

Patented Feb. 12, 1901.

R. W. BOOTH,
JAR CAP.

(Application filed Dec. 14, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

RALPH W. BOOTH, OF NEW BRUNSWICK, NEW JERSEY.

JAR-CAP.

SPECIFICATION forming part of Letters Patent No. 668,005, dated February 12, 1901.

Application filed December 14, 1899. Serial No. 740,275. (No model.)

To all whom it may concern:

Be it known that I, RALPH W. BOOTH, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in Jar-Caps, of which the following is a specification, reference being had therein to the accompanying drawings.

My present invention relates to a novel jar-cap, but more particularly to a lining-disk therefor.

It is customary to employ a porcelain disk as a lining for metallic jar-caps. When the cap is screwed down upon the jar this disk closes the mouth of the jar and prevents the liquid contents thereof from coming into contact with the metal cap. I have found in practice, however, that these porcelain linings add considerably to the weight of the cap and being fragile are easily broken during transportation.

The object of my invention, therefore, is to produce a lining-disk which cannot be broken by the shocks incidental to ordinary usage, packing, and shipping, which will be of exceedingly light weight, which will be self-retaining, and which, like the ordinary lining, will present a vitreous surface to the liquid contents of the jar.

To these ends the invention consists in constructing a porcelain lining-disk having a metal case, formed substantially concavo-convex to bring its under surface into the plane of the ordinary thick porcelain disk, and having an annular retaining-flange adapted to snap into the jar-cap and to retain the disk therein.

Referring to the drawings, Figure 1 is a sectional view through a portion of a jar, showing my cap in place. Fig. 2 is a perspective view of the lining-disk, and Fig. 3 is a magnified sectional view thereof.

Referring to the numerals of reference, indicating corresponding parts in the several views, 1 is a portion of an ordinary glass jar having the exterior of its mouth threaded for the reception of a light sheet-metal cap 2, comprising a circular plate or top 3 and a correspondingly threaded drop-flange 4. These caps are usually spun into shape, and

where they are designed for the reception of my linings the drop-flange is slightly constricted a short distance below the top or plate 3, preferably just above the threads, as indicated at 5. The internal diameter of this constriction is slightly less than the external diameter of the annular retaining-flange 6 of the practically concavo-convex lining-disk 7. When it is desired to insert the lining into the cap, it is placed therein with the concave side opposed to the under side of the cap-top. Slight pressure is then applied, which causes the retaining-flange 6 to snap past the constriction 5, and the lining will be securely retained against casual or accidental displacement.

When the lining-disk is in place, its annular retaining-flange 6 is disposed oppositely to the drop-flange 4 of the cap and is held firmly between the constriction 5 and the flat top 7. The disk is thus rigidly held against movement after having been snapped in place; but it is so far removed from the flat metal top 7 that a blow upon the latter will not have a tendency to crack or otherwise injure the frangible face of the disk.

As premised, the lining-disk is formed from light sheet metal; but as it is essential that the metal surfaces be protected by a vitreous covering the metal disk is made to constitute a core by coating it with a heavy enamel, or, if desired, two layers of porcelain may be fused upon the disk. The manner of effecting the desired result may be varied, however, the resultant essential to my invention being a jar-cap lining comprising a vitreous disk having a light sheet-metal core.

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

1. As a new article of manufacture a vitreous jar-cap lining having a flange projecting in a direction opposite to the direction in which the flange on a jar-cap projects and adapted to be engaged thereby, substantially as shown and described.

2. The combination with a jar-cap having a depending flange, of a lining-disk having a flange projecting in a direction opposite to the flange on the cap and retained between the top of the cap and the upper edge of the jar, substantially as described.

3. The combination with a jar-cap having a depending flange with annular interior constriction, of a jar-cap lining-disk having an annular flange disposed oppositely to that
5 of the cap and of slightly-greater diameter than the internal diameter of said constriction and adapted to snap past the same, substantially as described.

4. The combination with a jar-cap having
10 a depending flange with annular interior retaining constriction adjacent to the top, of a lining-disk having a vitreous coating and annular retaining-flange disposed oppositely to that of the cap and of slightly-greater diameter
15 than the internal diameter of the flange of the cap at said constriction and adapted

to snap past the same and be held by friction, substantially as shown and described.

5. The combination with a jar-cap comprising a top and drop-flange having an annular constriction adjacent to the top, of a lining-disk provided with an annular retaining-flange disposed in a direction opposite to that of the drop-flange and securely held between the annular constriction and the top
25 of the cap.

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

RALPH W. BOOTH.

Witnesses:

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