

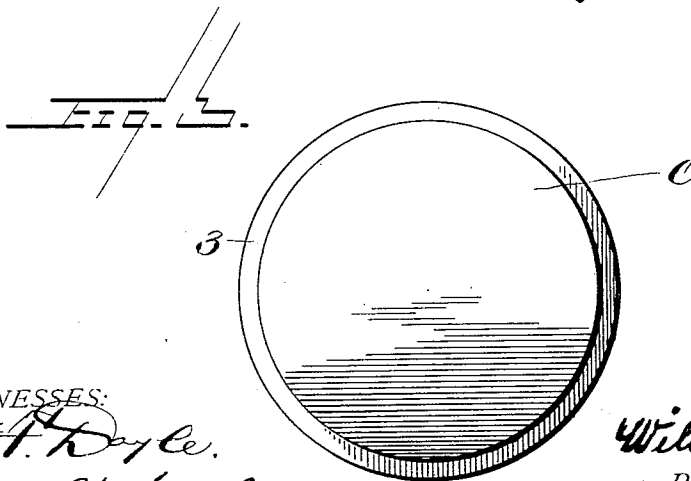
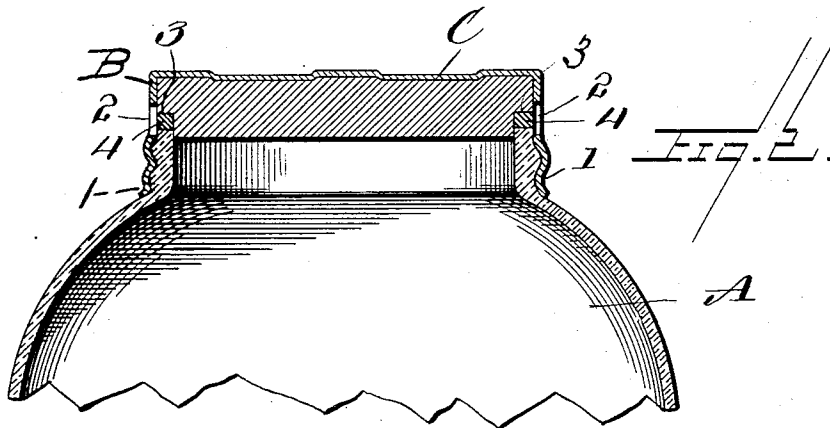
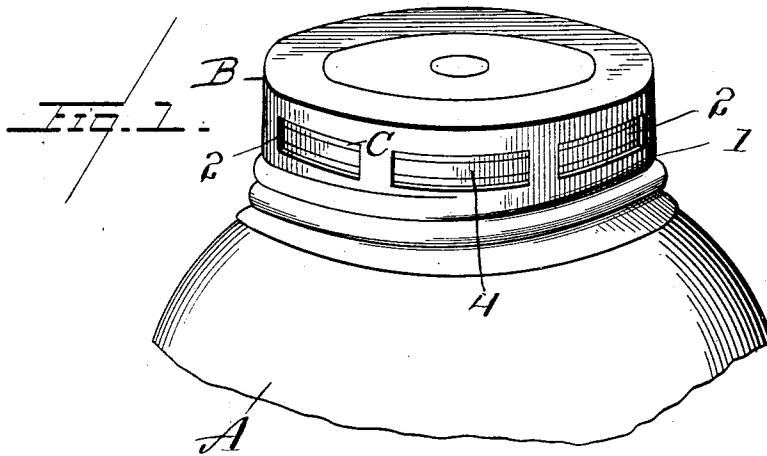
No. 751,716.

PATENTED FEB. 9, 1904.

W. W. CADLE.
JAR CLOSURE.

APPLICATION FILED OCT. 29, 1903.

NO MODEL.



WITNESSES:

H. F. Doyle.
Edgar Abraham.

INVENTOR

Wilbert W. Cadle,

BY *A. G. Heylman,*
Attorney,

UNITED STATES PATENT OFFICE.

WILBERT W. CADLE, OF CURWENSVILLE, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF TO J. W. REESER, OF CURWENSVILLE, PENNSYLVANIA.

JAR-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 751,716, dated February 9, 1904.

Application filed October 29, 1903. Serial No. 179,034. (No model.)

To all whom it may concern:

Be it known that I, WILBERT W. CADLE, a citizen of the United States, residing at Curwensville, in the county of Clearfield and State of Pennsylvania, have invented new and useful Improvements in Jar-Closures, of which the following is a specification.

My invention has relation to improvements in jar-closures of the screw-cap style; and the object is to provide such an article to hermetically seal a jar against the entrance of air from the outside and the escape of gases from the inside and at the same time construct the cap so that it may be at any time desired readily and easily removed from the jar.

The improvements embody a screw-cap made with one or more openings in its depending flange, a porcelain, china, glass, or equivalent disk fixedly inserted in the top of the cap, and a gasket or sealing-ring to seal the jar and be accessible through the openings in the flange in the cap, all as will be hereinafter disclosed and the asserted novelty particularly pointed out and distinctly claimed.

I have fully and clearly illustrated the improvements in the accompanying drawings, to be taken as a part of this specification, and wherein similar parts appearing in the several illustrations are designated by like reference notations.

Reference being had to the drawings, Figure 1 is a perspective view of the improvements, showing them as applied to a jar and indicating through the openings the relative position of the interior parts. Fig. 2 is a transverse vertical section through the assembled parts. Fig. 3 is a perspective view of the porcelain disk.

A designates the neck of a glass jar of any desired shape and capacity and formed with a screw-threaded neck of the usual make cast or finished in a well-known manner and having the top or edge molded or ground down so as to make a proper seat for the sealing-gasket or sealing-ring.

B designates the metal cap which covers the porcelain disk and the flange 1 of which is made with screw-threads to engage those formed on the neck of the jar, substantially

as shown in the drawings. In the flange of the metal cap B are formed a plurality of horizontally-disposed openings 2 so positioned therein that when the cap is screwed down to sealing position the seams between the sealing-ring and the parts between which it is interposed may be accessible through the openings, as indicated.

C designates a porcelain disk or liner fixedly fitted within the top of the metal cap and formed with an annular shoulder 3, wherein or whereon the elastic or yielding sealing-ring 4 is arranged. The sealing-ring is held to the disk by contraction or frictional contact and is in circular alinement with the top edge of the jar and bears thereon when the parts are clamped in sealing position. The shoulder 3 is of such height that the downwardly-projecting circular part formed thereby may set snugly within the mouth of the jar when the pressure of the metal cap forces it down far enough to do so.

It will be seen by reference to the drawings that when the parts of the closure are in clamped relation all access of air from without is excluded and all leakage of the contents and their contact with metal are prevented.

It is well known that these metal caps when screwed to clamp the closure in sealed position often stick and obstinately and persistently withstand all attempts to be released. These objections and troubles my improvements overcome. When the jar is to be opened, all that is necessary to do is to insert the point of a thin or sharp implement, as the point or end of a knife-blade, through the opening in the flange of the metal cap and between the sealing-ring and the porcelain disk or between the sealing-ring and the top edge of the jar and loosen the sealing-ring at these places, when the metal cap can be readily unscrewed and removed, and this without mutilation of the ring, the porcelain, or the top of the jar.

Having thus described my invention, what I claim is—

The combination with a jar formed with a vertical screw-threaded neck, of a screw-threaded metal cap to engage the screw-threads on the jar-neck provided with openings in the

flange of the cap, a porcelain liner or disk fixedly seated in the top of the metal cap and formed with an annular shoulder and the central portion of the liner extended downward
5 into the mouth of the jar, and a yielding packing-ring on the annular shoulder of the porcelain disk and in alinement with the opening in the flange of the cap.

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

WILBERT W. CADLE.

Witnesses:

JNO. W. REESER,
JAMES C. BLOOM.