

No. 760,300.

PATENTED MAY 17, 1904.

A. L. BERNARDIN.
BOTTLE CAP.

APPLICATION FILED OCT. 23, 1903.

NO MODEL.

Fig. 1.

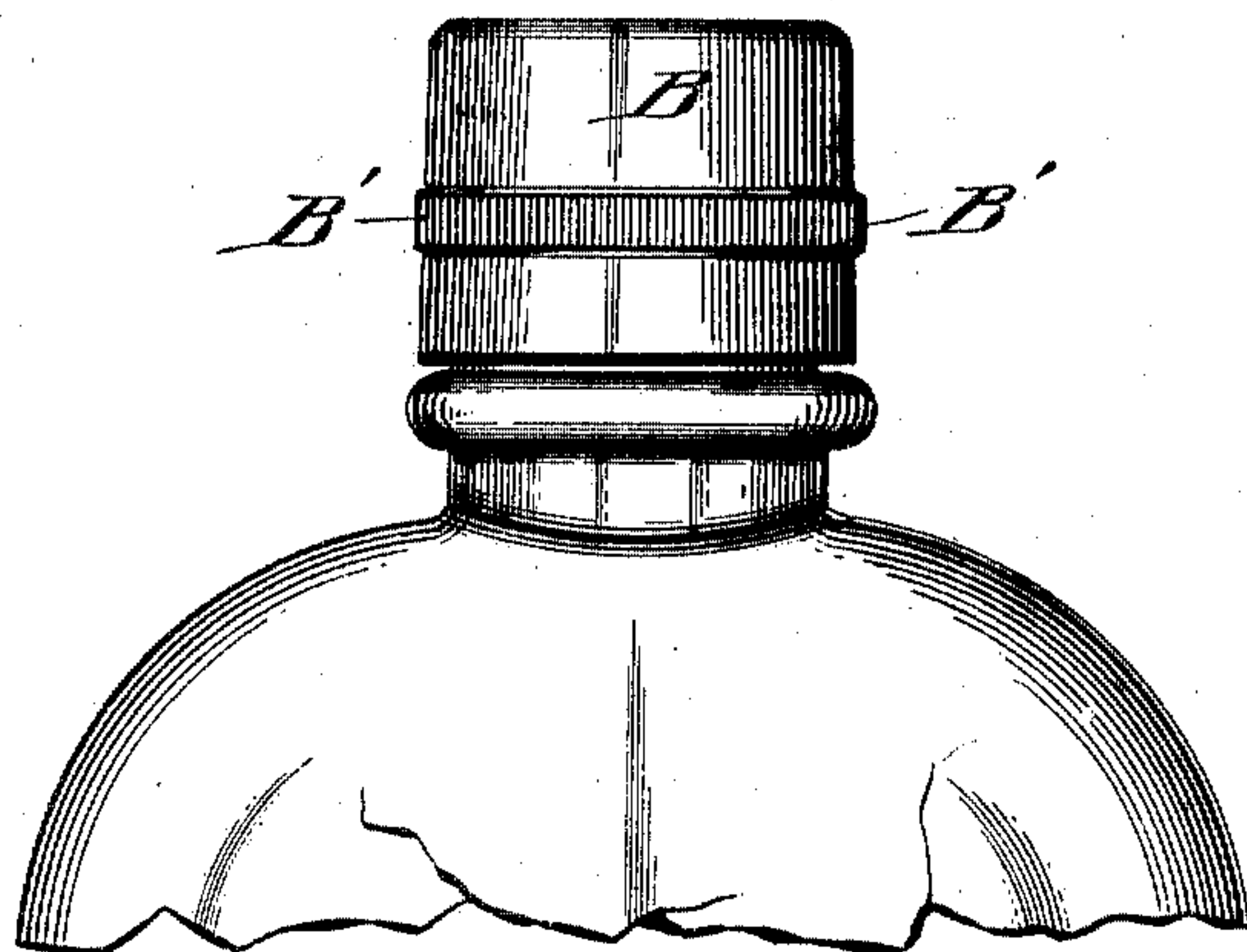


Fig. 2.

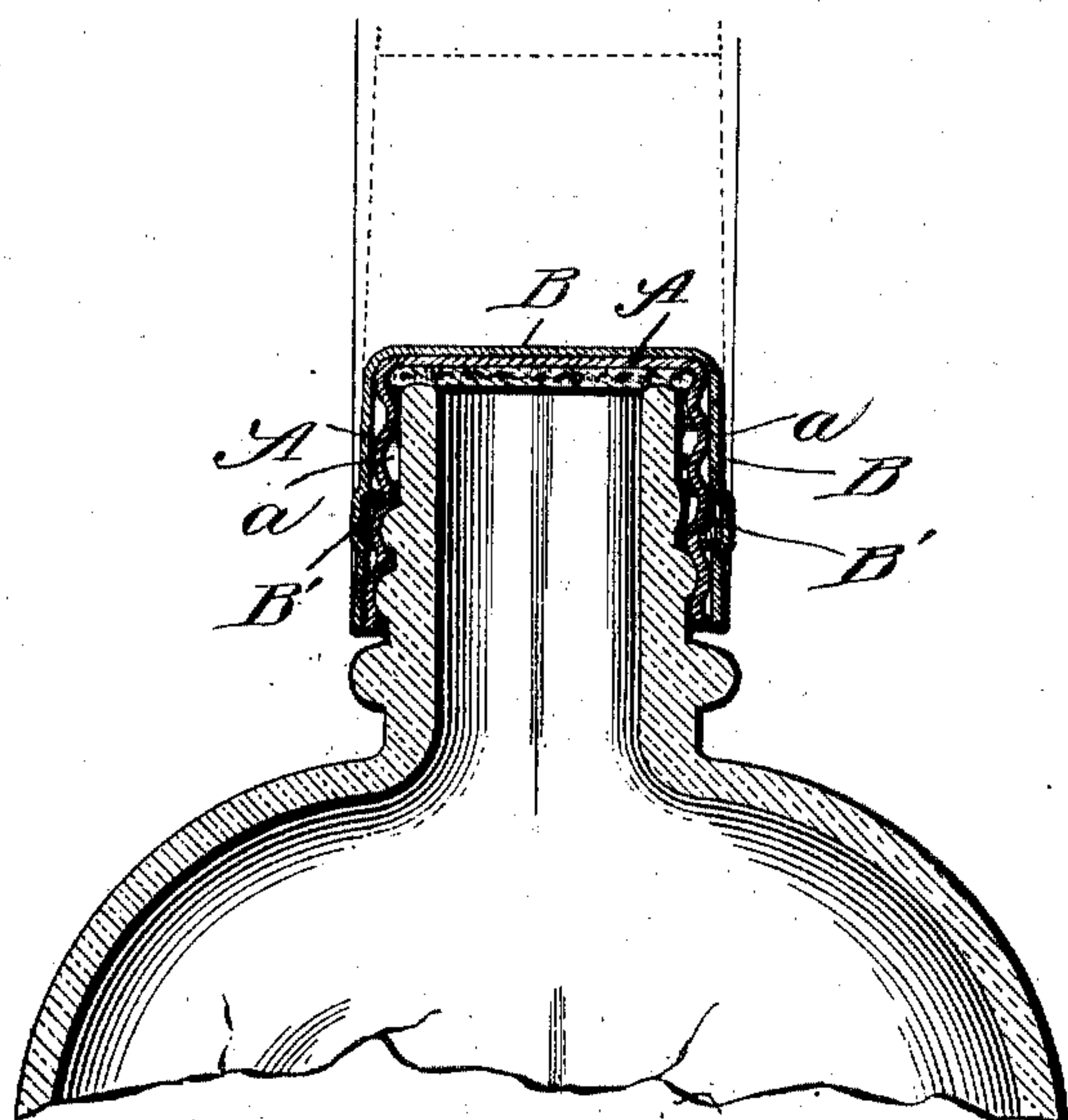
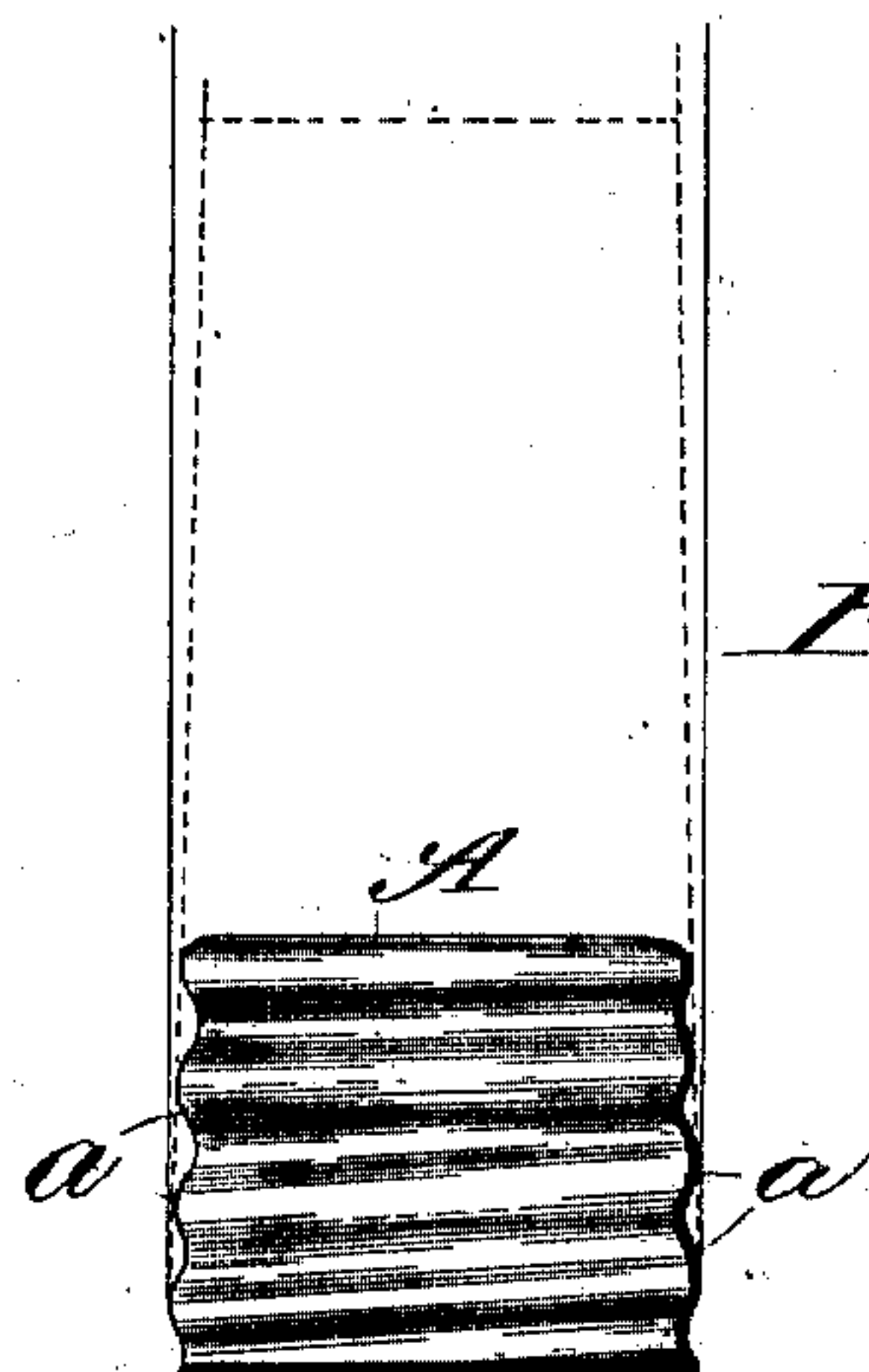


Fig. 3.



WITNESSES:

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ALFRED L. BERNARDIN, OF EVANSVILLE, INDIANA.

BOTTLE-CAP.

SPECIFICATION forming part of Letters Patent No. 760,300, dated May 17, 1904.

Application filed October 23, 1903. Serial No. 178,214. (No model.)

To all whom it may concern:

Be it known that I, ALFRED L. BERNARDIN, a citizen of the United States, and a resident of Evansville, in the county of Vanderburg and State of Indiana, have made certain new and useful Improvements in Bottle-Caps, of which the following is a specification.

My invention is an improvement in bottle-caps, especially those designed for use on whisky-flasks; and the invention relates particularly to that class of such caps which are made of hard metal and comprise an inner corrugated section to screw on the bottle-neck and an outer unthreaded section or shell which is held to and from rotary or longitudinal movement upon the inner threaded section; and the present invention relates to the novel construction of the cap with the inner and outer sections fitted together, the inner section being rather a tight fit within the outer shell or cover-section, so that when the inner shell is pressed into the outer shell or cover-section the latter will be held to and from rotary or longitudinal movement upon the inner threaded section; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of my improved bottle-cap as in use. Fig. 2 is a sectional elevation thereof, and Fig. 3 is a detail side elevation of the inner threaded section.

As shown, the cap consists of the inner section A and the outer section B. Both these sections may be made of any suitable hard metal and in practice may be made of any cheap sheet metal—such, for instance, as tin-scrap. The inner section A is corrugated spirally at *a*, the corrugations being pressed or otherwise forced into the metal, whereby I provide the internal thread to screw on a bottle-neck and the external spiral bead for engagement with the cover-section presently described. This inner section is tapered to a slight degree longitudinally, being smaller at its outer end, and the outer section B is made slightly larger than the inner section A and is tapered corresponding to such inner section

A and may preferably be provided with a gnarled bead B', by which the cap may be turned. In practice the shells are pressed or forced firmly together to the position shown in Figs. 1 and 2, the inner shell or section being pressed firmly into the cover-section, so that the inner and outer sections will be brought into so tight a union that no pressure can be brought to bear that will turn the cover-section upon the inner section in the ordinary use of the invention. It will be noticed that this result is facilitated by the corrugated construction of the inner section, as in pressing the sections together, the cover-section upon the inner one, the external bead afforded by the corrugated construction of the inner section will tend to embed itself slightly within the inner surface of the cover-section in such manner as to practically unite the inner and outer sections, so that the outer section is held to and from rotary or longitudinal movement upon the inner threaded section and the two sections form a cap of hard metal, having the inner threaded section and the smooth unthreaded outer section adapted for use for the purpose set forth. It will be noticed from Figs. 2 and 3 that I have indicated the taper of the cover-section and of the inner threaded section, full and dotted lines being employed in the two figures, the former to show the cylindrical form of a diameter equal to the greatest diameter of the parts, while dotted lines are employed to indicate the taper given the parts in the different figures.

It will be noticed that the resilience of the inner corrugated section will also tend by a springy action to aid in securing the frictional binding of the outer shell or cover-section upon the inner corrugated section.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The bottle-cap herein described, comprising an inner section corrugated spirally forming an internal thread to screw upon a bottle and an external spiral bead for engagement with a cover-section, said inner section being tapered longitudinally, and a cover-section

tion made slightly larger than and tapered correspondingly to the inner section, said sections being forced together whereby the outer section covers the inner one and the spiral
5 bead of the inner section binds in connection with the inner surface of the cover-section and the outer section is held to and from rotary or longitudinal movement upon the inner section, substantially as and for the purposes
10 set forth.

2. A bottle-cap consisting of inner and outer sections, the inner section being corrugated and the outer section being made slightly larger than the inner section and pressed
15 firmly upon the inner section, whereby to

bind by frictional contact on and form a cover for the inner section, substantially as set forth.

3. A bottle-cap consisting of an inner corrugated section tapered longitudinally and an outer or cover section made slightly larger
20 than and tapered correspondingly to the inner section, the sections being forced together with the outer section over and forming a cover for the inner section, substantially as set forth.

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Witnesses:

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