No. 653,610. Patented July 10, 1900.

A. L. BERNARDIN.

BOTTLE CAP.

(Application filed Feb. 8, 1900.)

(No Model.)

Fig. 1.

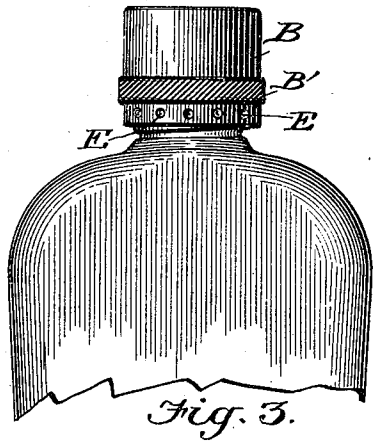


Fig. 2.

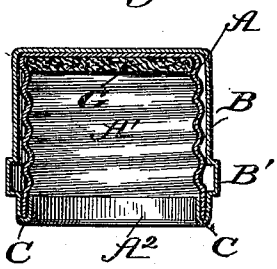


Fig. 3.

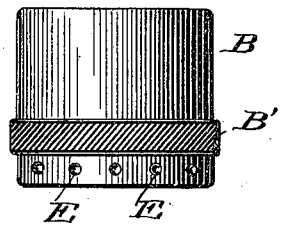


Fig. 4.

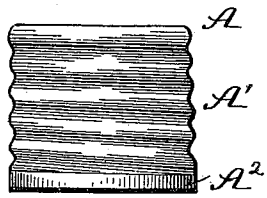


Fig. 5.

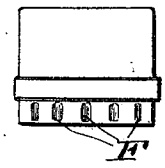
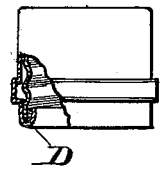


Fig. 6.



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UNITED STATES PATENT OFFICE.

ALFRED L. BERNARDIN, OF EVANSVILLE, INDIANA.

BOTTLE-CAP.

SPECIFICATION forming part of Letters Patent No. 653,610, dated July 10, 1900.

Application filed February 8, 1900. Serial No. 4,474. (No model.)

To all whom it may concern:

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

My invention is an improvement in bottle-caps, being especially designed for use on whisky-flasks; and the invention consists in the special construction of the cap, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a face view, partly broken away, of a flask provided with my improvement. Fig. 2 is a sectional view, and Fig. 3 a side view, of the cap. Fig. 4 is a side view of the inner shell. Fig. 5 is a side view of a cap with the fold or hem indented by corrugations. Fig. 6 is a side view of a cap, partly broken away in section, showing solder for preventing the independent turning of the outer and inner shells.

Caps for whisky-flasks and the like are ordinarily made of soft metal, and in addition to being expensive are objectionable in that the threads will frequently be stripped when pressure is applied in turning the cap tightly upon the bottle-neck. By my invention I seek to provide a novel form of cap having an inner shell of hard metal, which is threaded to fit the threads of the bottle-neck, and an outer shell inclosing the inner shell and forming a smooth cover for the cap. I thus provide a cheaper and a more durable cap and one whose exterior can be finished and decorated by plating, japanning, or otherwise to suit.

In the construction shown in Figs. 2 and 4 the inner shell is in the form of a cup corrugated, forming the threads A′ and having at its lower end the plain cylindrical portion A^2. This inner shell A is of hard metal and may in practice be made from any cheap sheet metal—for instance, tin-scrap—with the thread pressed in. The cup-like threaded shell is provided with the top plate and with the cork or similar pad G fitted within it up against said top plate. By providing the inner section with the top plate and fitting the sealing-pad therein up against said top plate I avoid any leakage between the pad and the outer shell or casing and effect the sealing operation entirely within the inner shell. The outer shell B is also of sheet metal and may be made from the higher-polished grades, or it may be decorated or finished in any desired manner. This shell incloses the inner shell A, and may preferably be provided with a gnarled bead B′, as shown in the drawings. The outer shell B is suitably held to the inner shell. This is effected by means of a continuous unbroken overlapping hem or fold C at the lower edge of the cap. In the construction shown the continuous unbroken hem C is formed on the outer shell and is bent within the inner shell to embrace the lower plain edge thereof, as is best shown in Fig. 2. By this means the shells A and B are held together; but I find it desirable to provide means for locking them together so the outer shell cannot turn on the inner one. This may be effected by a little solder, as shown at D in Fig. 6, or the shells may be interlocked by indenting the hem or fold and the portion it incloses. These indentations may be made by a suitable punch, as indicated at E in Fig. 3, or corrugations, as indicated at F in Fig. 5, may be employed in indenting the overlapping parts.

The screw-caps generally used on whisky-flasks are of soft metal and nickel-plated, the threads being pressed on the inside of the caps, leaving the outside smooth. These soft-metal caps are very heavy and expensive to make, and the threads will often strip when the caps are being tightened on the bottle. By my invention I provide a cap with hard-metal threads with a smooth unthreaded exterior, which can be cheaply made, will be durable, can be applied with great force to the bottle without any danger of stripping the thread, and can be easily ornamented to any desired degree and which by the cup form of the threaded shell avoids any leakage between the inner and the outer sections. By my invention I furnish a hard-metal screw-cap that does not show any external corrugations.

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

1. The bottle-cap herein described composed of the inner threaded shell having a top plate, the outer shell or casing fitting over

and held to the threaded shell and having its lower edge turned inward embracing the lower edge of the inner shell, and the pad fitted within the inner shell up against the top plate thereof, the top plate and sides of the threaded shell being connected whereby no leakage will occur between the inner and outer shells and the sealing operation will be effected entirely within the inner shell substantially as set forth.

2. The herein-described bottle-cap consisting of the inner threaded shell or section made cup shape with a top plate and adapted to receive within it a packing-pad to fit up against said top plate and the outer or casing section fitted over said threaded section and adapted to present an unthreaded exterior said outer shell being held to, and from rotary or longitudinal movement upon the inner threaded shell substantially as set forth.

ALFRED L. BERNARDIN.

Witnesses:
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