

No. 755,047.

PATENTED MAR. 22, 1904.

A. R. ROBERTSON.

BOTTLE SEAL.

APPLICATION FILED MAR. 17, 1902.

NO MODEL.

Fig. 1.

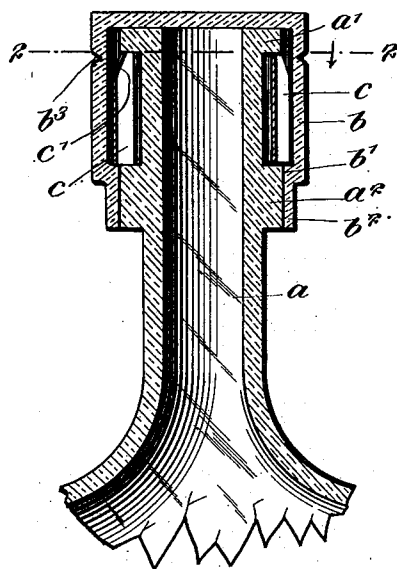


Fig. 3.

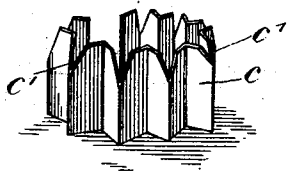


Fig. 4.

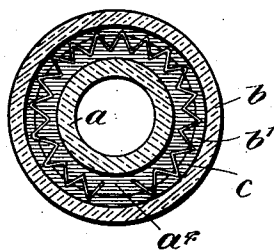
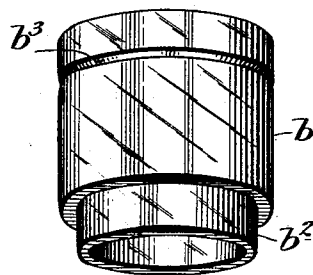


Fig. 2.

WITNESSES:

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ALEXANDER ROTH ROBERTSON, OF PASS CHRISTIAN, MISSISSIPPI.

BOTTLE-SEAL.

SPECIFICATION forming part of Letters Patent No. 755,047, dated March 22, 1904.

Application filed March 17, 1902. Serial No. 98,551. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER ROTH ROBERTSON, a citizen of the United States, and a resident of Pass Christian, in the county of Harrison and State of Mississippi, have invented a new and Improved Bottle-Seal, of which the following is a full, clear, and exact description.

This invention relates to a device adapted to secure frangible caps over the mouths of bottles.

A purpose for which the invention is particularly intended is that of preventing tampering with the contents of a bottle.

To this end the device embodies the combination, with the neck of a bottle which is adapted to receive a cork in the usual manner and which is formed with two annular beads on its outer surface, of a frangible cap, preferably of glass, and a corrugated locking-spring adapted to lie between the beads on the neck of the bottle and within the cap, so as to co-act therewith in a peculiar manner, thus holding the cap in place. When once seated, the cap can only be removed by breaking it away, and in practice I purpose forming the cap with an annular weakened portion, which will facilitate its fracture.

This specification is an exact description of one form of the invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a vertical section of the invention. Fig. 2 is a horizontal section on the line 2-2 of Fig. 1. Fig. 3 is a perspective view of the corrugated locking-spring, and Fig. 4 is a perspective view of the cap.

a indicates the neck of a bottle, the usual top bead a' whereof is squared slightly effectively to work with the locking-spring, as will be hereinafter brought out. Below the bead a' the neck is formed with a second bead a'' , both of the beads being exterior and being distanced apart sufficiently to receive the locking-spring.

b indicates the cap, which has an internal shoulder b' formed at its lower portion, and

below this shoulder the cap has a contracted part b'' , adapted to lie snugly over the bead a'' .

b'' indicates the annular weakened part of the cap, which facilitates the fracture of the cap by allowing the top thereof to be removed. The spring c is formed of a strip of spring metal, corrugated as shown, and is adapted to be given annular form, so as to lie around the neck of the bottle between the beads a' and a'' . The upper edge of this spring-strip at the outer corners of the corrugations is cut away or beveled, as indicated at c' , to facilitate placing the cap in position.

In using the invention after the bottle is properly corked the spring-catch is placed around the neck of the bottle between the beads a' and a'' with the beveled part c' of the catch upward. The cap is now forced downward over the mouth of the bottle, the contracted portion b'' of the cap riding over the inclined part or beveled edges c' of the spring-catch and compressing the catch sufficiently to allow the contracted portion of the cap to pass over the catch and down on the bead a'' . As soon as the contracted portion b'' of the cap passes the spring-catch the catch distends and engages the internal shoulder b' of the cap. This locks the cap securely in place and renders its removal impossible without fracturing the cap.

The invention is useful on bottles and other vessels of various sorts, it not being confined to the form or shape here shown. Also the position of the beveled edges c' may be reversed, if desired, and the spring-catch placed primarily in the cap and moved therewith into proper engagement with the bead or beads of the bottle.

Various other changes in form, proportions, and minor details may be resorted to at will without departing from the spirit and scope of my invention as defined in the claims.

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

1. The combination with a bottle having the neck thereof formed with exterior annular flanges or beads spaced from each other, of a spring-catch formed of a strip of sheet metal corrugated transversely and bent into annular form to lie between said beads, the

upper edge of said strip at the outer corners of the corrugations being cut away or beveled for the purpose specified, and a cap adapted to fit over the beads on the neck of the bottle
5 and to receive the spring-catch, said cap having an internal shoulder adapted to engage the lower edge of the spring-catch, to hold the cap in place.

2. In a bottle-seal, the combination with the
10 neck of the bottle and with the sealing-cap thereof, said parts having beads or shoulders, for the purpose specified, of a spring-catch for holding the cap in position, said catch being formed of a sheet of spring metal corrugated

transversely and bent into annular form to lie 15
around the neck of the bottle, substantially as described, the upper edge of said strip of metal at the outer corners of the corrugations thereof being cut away or beveled to facilitate placing
20 the cap in position.

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

ALEXANDER ROTH ROBERTSON

Witnesses:

ELMER NORTHROP,
BARNARD CHOTARD.