

(No Model.)

2 Sheets—Sheet 1.

A. M. GILLAM.
PROTECTIVE BOTTLE, &c.

No. 578,010.

Patented Mar. 2, 1897.

Fig: 1.

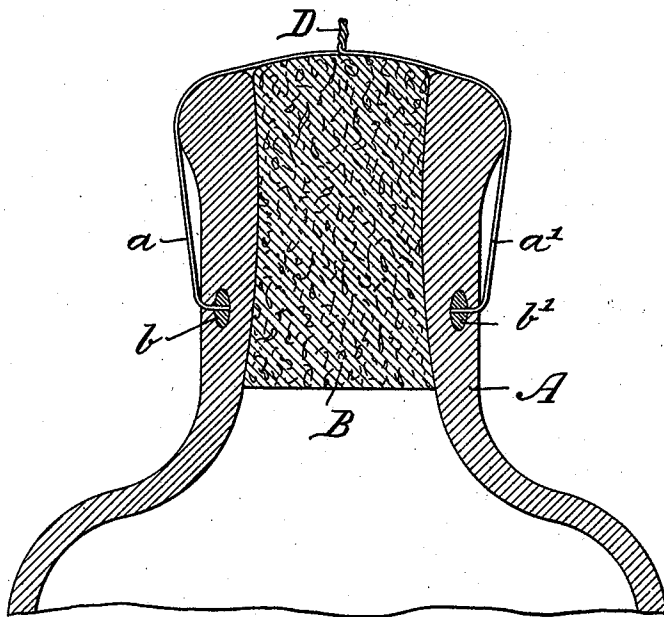
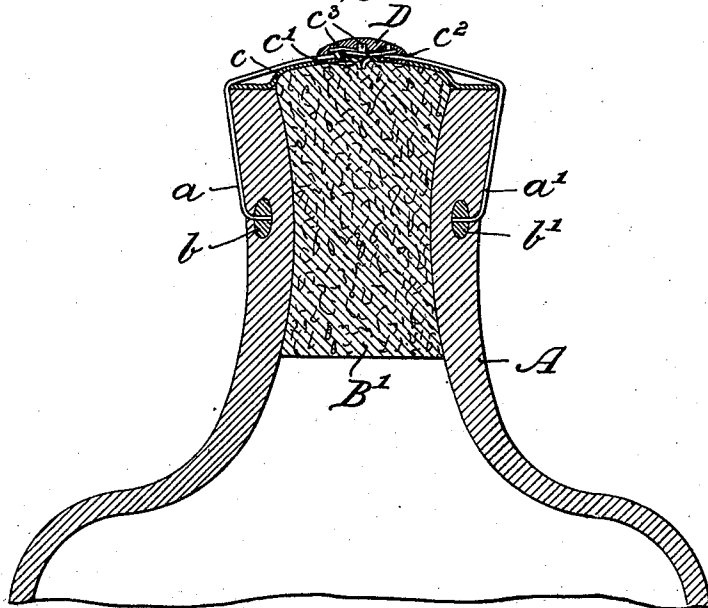


Fig: 2.



Witnesses:
Thomas M. Smith.
Richard C. Maxwell.

Inventor:
Alice M. Gillam,
By J. Walter Douglass.
Attorneys.

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Fig. 3.

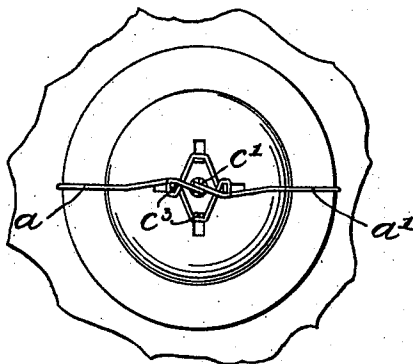
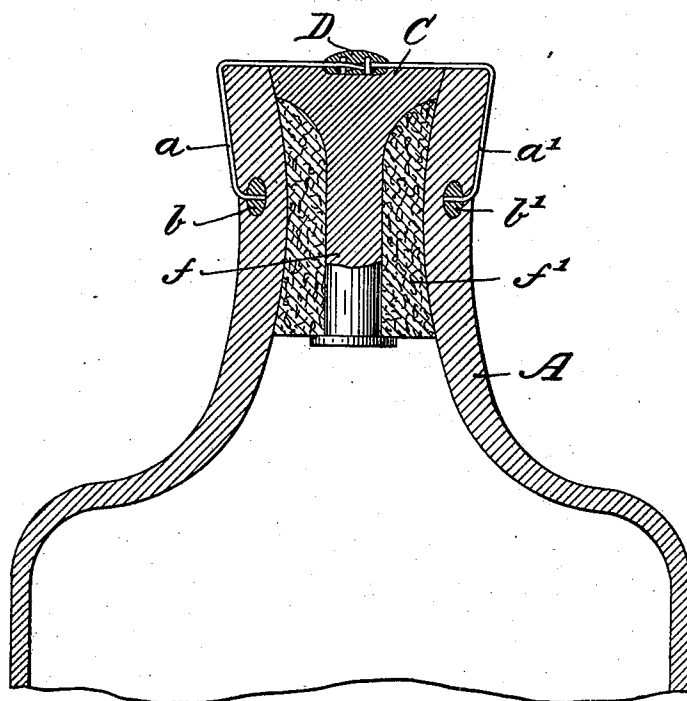


Fig. 4.



Witnesses:
Thomas M. Smith.
Richard C. Maxwell.

Inventor:
Alice M. Gillam,
By J. Walter Douglass.
Attorney.

UNITED STATES PATENT OFFICE.

ALICE M. GILLAM, OF FLUSHING, NEW YORK.

PROTECTIVE BOTTLE, &c.

SPECIFICATION forming part of Letters Patent No. 578,010, dated March 2, 1897.

Application filed October 27, 1896. Serial No. 610,189. (No model.)

To all whom it may concern:

Be it known that I, ALICE M. GILLAM, a citizen of the United States, residing at Flushing, in the county of Queens and State of New York, have invented certain new and useful Improvements in Protective Bottles or the Like, of which the following is a specification.

My invention has relation to a bottle or similar article so constructed and arranged as not to be susceptible of subsequent use without detection or the destroying of means associated therewith adapted to establish the fact that the original sealing of the article has been tampered with or that the preparation is not being sold in its original or authorized bottled condition.

The principal objects of my invention are, first, to provide a cheap, simple, and reliable protective bottle adapted to contain a fluid or other substance, and the same provided with means whereby any unauthorized employment or use of the bottle for preparations or fluids may be readily detected, and, second, to provide a protective bottle having means associated with the neck and adapted to embrace the cork or cap and to be sealed thereto against any unauthorized use thereof without ready detection.

My invention, stated in general terms, consists of a protective bottle or the like when constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and general objects of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a sectional view of the neck of a bottle with wires provided with beads of colored glass or other material embedded or blown into the neck at two or more different points of the wall thereof, and the free ends made to embrace the cork and secured by being melted or welded thereto, embodying main features of my invention. Fig. 2 is a similar view of a modified form of my invention, showing the bottle-neck provided with a cork engaging a metal cap provided with struck-up prongs or lugs and with beaded wires embedded into the wall of the neck and embracing the cap and the free ends of the wires welded to the cap, whereby upon the

breaking of the connection the wires are destroyed for subsequent union, rendering thereby any unauthorized use of the bottle possible of ready detection. Fig. 3 is a top or plan view of Fig. 2; and Fig. 4 is a sectional view of a still further modified form of my invention, showing a metal cap with a neck embraced by a cork collar or sleeve, and with the beaded wires secured into the neck and embracing and adapted to be welded or fused into the cap, so as to constitute a seal thereat by the merging *en masse* of the wires with the lugs of the cap.

Referring to the drawings, A in Figs. 1, 2, and 4 represents a bottle-neck. In the wall of the same below the mouth portion thereof is embedded or blown into the neck at two or more points or portions thereof wires *a* and *a'*, provided with beads *b* and *b'*, of colored glass or other material and of such size as to be visible through the glass wall of the neck A.

B in Fig. 1 is a stopple or cork, which is embraced by the wires *a* and *a'*, which are twisted or welded together to constitute a seal D of them thereat, whereby upon the breaking of the said seal D subsequent use of the wires for resealing the packet or bottle is rendered next to impossible, so that any unauthorized use of the bottle may be readily detected by reason of the absence of wires to embrace the cork and by the presence of the beads with the broken ends of the wires observable in and projecting from the neck of the bottle A.

In Fig. 2, showing a modified form of my invention, the neck A is provided with a cork stopple B', having a flanged metal cap *c*, provided with a depending prong or spur *c'*, punched or struck out of the same and extending into the cork B', and with a series of struck-up lugs *c''*, with which the wires *a* and *a'* are brought into engagement, and with solder *c''* applied thereto, as clearly illustrated in Fig. 3. The wires and lugs upon being welded, fused, or melted with the solder *c''* constitute a seal D, whereby resealing upon breaking of the wires is practically prevented, and also any attempt at subsequent use of the bottle as an original packet.

In Fig. 4 the metal cap or stopple C is provided with a downwardly-projecting cylindrical neck or stem *f*, around which is fitted a sleeve or collar *f'*, of cork or other suitable

material. In the wall of the neck A at two or more different points is provided beads *b* and *b'* of wires *a* and *a'*, consisting of one or more twisted strands, these wires singly or twisted
5 together projecting from the embedded beads in the bottle-neck A upward over the top of the stopple C and the ends twisted together and then melted or welded with solder into the sunken portion of the cap of the stop-
10 ple in such manner as to constitute a seal D of the united ends of the wires, these wires when the seal is broken snapping off at a point beyond the embedded beads of the wires in the neck of the bottle, whereby it is
15 rendered impossible to use again the bottle as one containing the preparation or fluid-matter of a certain brand or manufacture without such being subject to ready detection.

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

1. In a protective bottle, the combination with the bottle-neck and a cork or stopper
25 therefor, of two wires each having an enlarged head of a color conspicuously distinguishable from the color of both wire and bottle-neck adapted to be embedded in the neck, said wires adapted to be drawn over and
30 down upon the stopper and to be inseparably

united to each other, substantially as and for the purposes described.

2. In a protective bottle, the combination with the bottle-neck and a cork or stopper therefor, of two wires each of which is provided with an enlarged colored glass head,
35 said heads adapted to be embedded in and securely united to the bottle-neck, and said wires adapted to be drawn over and down upon the stopper and to be inseparably united
40 to each other by welding, substantially as and for the purposes described.

3. In a protective bottle, the combination with the bottle-neck, a cork or stopper therefor and a metallic cap for said stopper, of
45 two wires each of which is provided with an enlarged colored glass head adapted to be embedded in and securely united to the bottle-neck, and said wires adapted to be drawn over and down upon the stopper and to be
50 inseparably united to each other and to the metallic cap of the stopper by welding, substantially as and for the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

ALICE M. GILLAM.

Witnesses:

WM. M. CHRISTIE,
M. M. GILLAM.