

(No Model.)

C. M. LOTHROP.

BOTTLE.

No. 302,268.

Patented July 22, 1884.

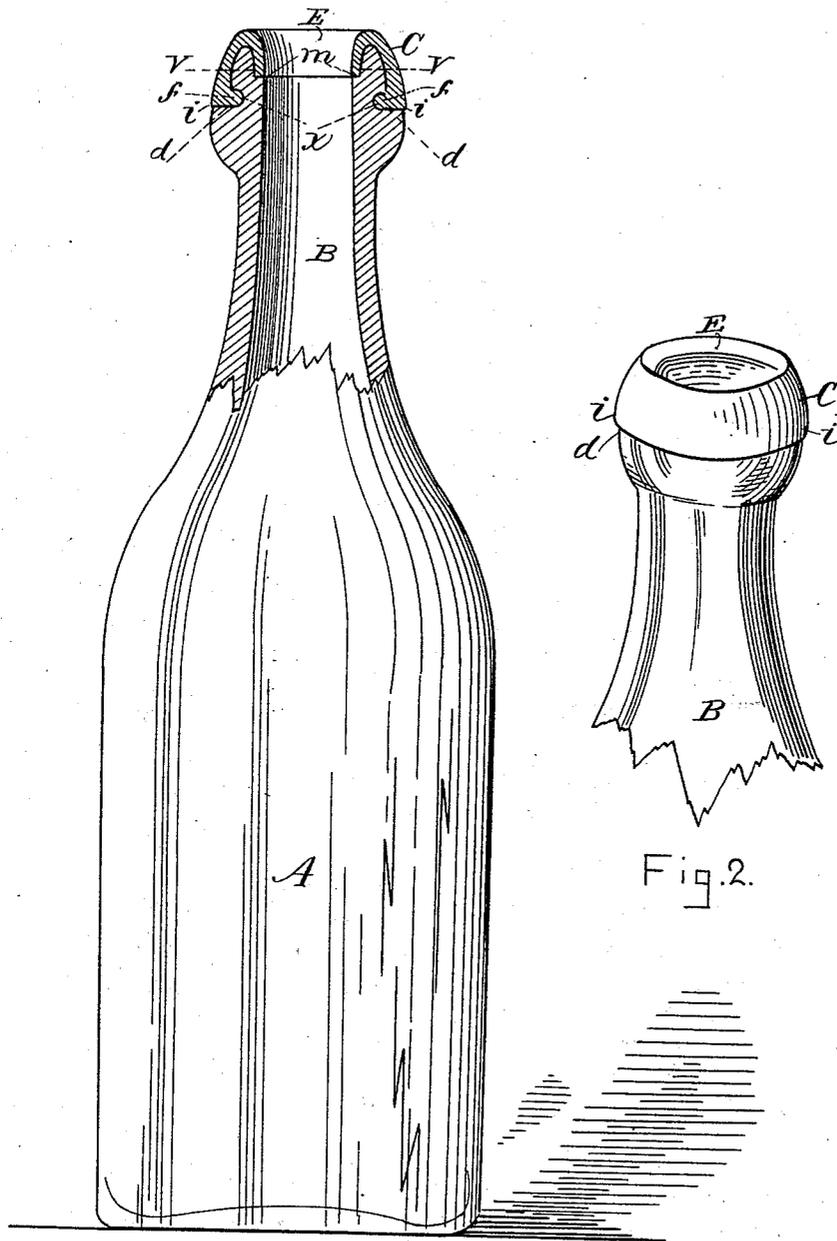


Fig. 1.

Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

CHAUNCEY M. LOTHROP, OF WALPOLE, MASSACHUSETTS.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 302,268, dated July 22, 1884.

Application filed May 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHAUNCEY M. LOTHROP, of Walpole, in the county of Norfolk, State of Massachusetts, have invented a certain new and useful Improvement in Bottles, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of my improved bottle, the neck and cap being represented in vertical longitudinal section; and Fig. 2, a perspective view of the neck or upper portion of the bottle detached.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates more especially to means for protecting the upper end of the bottle and packing the stopple; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simpler, cheaper, and more effective device of this character is produced than is now in ordinary use. In ordinary glass bottles that portion immediately around the mouth or stopple opening is liable to be broken out or chipped off by use, more especially in that class of bottles which are employed for bottling lager-beer, such bottles being frequently subjected to a very careless handling in use, but more especially in washing and refilling. The stopples of lager-beer bottles are also usually provided with a rubber disk attached to the lower side of the cork or stopple proper, and adapted to act as a packing to prevent the cork from leaking; but such stopples are expensive to construct and sometimes liable to get out of order, thereby causing the stopple to leak and rendering it useless until fitted with a new packing. My improvement is designed to obviate these difficulties and objections, and to that end I make use of means which will be readily understood by all conversant with such matters from the following explanation,

the extreme simplicity of the invention rendering an elaborate description unnecessary.

In the drawings, A represents the body of the bottle, B the neck, and C the cap or mouth-piece. The upper end of the neck, near the mouth or opening, is provided with an exterior annular groove, *x*, and rabbet or shoulder *d*, and the interior of the mouth is chambered or enlarged, as shown at *v*, and provided with the annular rabbet or shoulder *m*. The cap C is composed of rubber, and is provided with an inwardly-projecting annular flange, *f*, adapted to fit the groove *x*, and with a wide inwardly-turned and downwardly-projecting lip or flange, E, adapted to fit the chamber *v* and rest on the shoulder *m*. The body of the cap opposite the flange *f* is preferably made thicker than the width of the shoulder *d*, so that when the cap is in position on the bottle it will project beyond the neck of the bottle, as shown at *i*, and thereby protect it from breakage when dropped on its side. The thickness of the flange E is also preferably greater than the width of the shoulder *m*, so that when the cork or stopple proper is inserted in the mouth of the bottle it will rest entirely, or nearly so, on said flange.

From the foregoing it will be obvious that the cap not only protects the edges of the bottle around the mouth from being chipped off or broken, but acts as a packing for the stopple, rendering it unnecessary to provide the stopple with a rubber disk or packing of any other description.

It will also be obvious that my improvement is well adapted for use with glass and earthen jars, as well as bottles and vials of nearly any size or description, whether provided with glass, porcelain, cork, rubber, or other stopples, and I do not, therefore, confine myself to its use with beer-bottles only.

The cap is composed of elastic rubber or similar material, all of its parts being integral, and is designed to be made of any required size, or in accordance with the size of the bottle or jar on which it is to be used.

In place of the groove *x*, indentations or sockets may also be formed in the exterior of the neck of the bottle, and in place of the

flange *f* projections may be formed on the cap, the projections being adapted to enter the sockets, and thereby hold the cap in place on the bottle.

5 Having thus explained my invention, what I claim is—

The bottle *A*, having the chamber *v* and

groove *x*, in combination with the cap *C*, having the lip *E* and flange *f*, substantially as described.

CHAUNCEY M. LOTHROP.

Witnesses:

C. A. SHAW,
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