

(No Model.)

G. S. CHAMBERLIN.
BOTTLE STOPPER.

No. 534,031.

Patented Feb. 12, 1895.

Fig. 1.

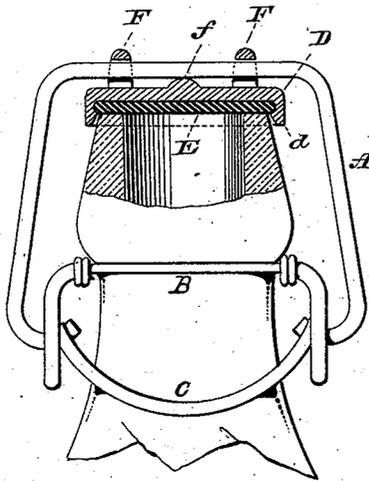


Fig. 2.

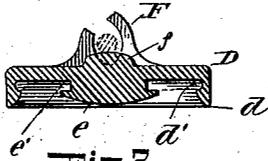


Fig. 3.

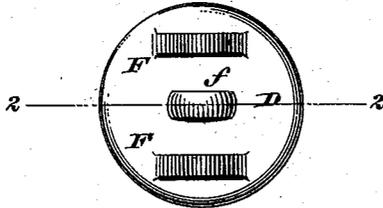
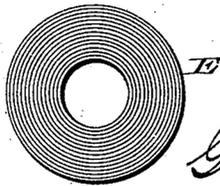


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE S. CHAMBERLIN, OF NEW YORK, N. Y.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 534,031, dated February 12, 1895.

Application filed April 26, 1894. Serial No. 509,050. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. CHAMBERLIN, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

My present invention relates to certain new and useful improvements in bottle-stoppers adapted for use in connection with the bail so generally applied to bottles containing effervescent liquors at the present time.

The prime object of the invention is to effect a saving of rubber by the peculiar construction and arrangement of parts, and to combine the cap and bail in such a manner that the former will always be maintained in its proper relative position to the mouth of the bottle.

With these and other ends in view the invention contemplates the usual bail, tie-wire and lever, a cap having an annular groove to receive a rubber gasket, said cap being provided with eyelets which are cast open and closed when the bail is inserted, and a stud arranged between the eyelets on the cap to serve as a fulcrum for the bail.

To enable others to more readily understand my invention I have illustrated the same in the accompanying drawings, in which—

Figure 1 is a view, partly in section, of a portion of a bottle showing my invention applied thereto. Fig. 2 is a detail sectional view of the cap, taken on line 2—2 Fig. 3 showing the eyelets open and ready to be closed upon the bail. Fig. 3 is a top plan view of the cap, and Fig. 4 is a detail view of the gasket.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A, B and C designate respectively the bail, tie-wire and lever of the ordinary bail-tie bottle stopper, the bail being arranged to pass over the top of the bottle in the customary manner.

The cap D is provided with a downwardly projecting flange *d* and an annular groove *d'*. A gasket E, of rubber or other suitable material, is sprung into the annular groove *d'* and is adapted to press directly upon the lip of the bottle when the stopper is clamped in

place. By forcing the gasket into the groove *d'* it is retained securely in place and will not be withdrawn when the pressure thereon is removed. To insure the absolute retention of the gasket in the cap and to provide a guide for the cap I may use a button *e* cast integral with the cap and provided with an annular groove *e'* to receive the gasket. This button *e* is not essential to the proper and effective operation of the device but may be used to afford additional security when found desirable. The cap is attached to the bail by eyelets, and I have found that in the usual construction of the bail-tie the cap will move over the bends on the bail and become engaged with the lever and other parts and out of its proper position over the mouth of the bottle. To obviate this difficulty I provide two eyelets F on the upper part of the cap which are cast in an open position, with the two projecting members *f' f'* as shown in Fig. 2, and clamped down upon the bail after the latter has been inserted thereon. By this means it will be observed that the cap cannot slip over the bends in the bail and will always remain in its proper position adapted to be quickly clamped down upon the mouth of the bottle. It is also found in bottles of this kind that a proper pressure cannot always be exerted upon the cap because of flaws or imperfect joints and connections in the bail-tie and more or less imperfections in the form of the bottle. I therefore provide a stud *f* on the upper part of the cap between the two eyelets adapted to form a fulcrum for the bail. By this means the cap can be clamped tightly upon the bottle to hermetically seal the same and the wire bail will give sufficiently upon each side of the stud to prevent any great pressure from disarranging the other parts of the bottle stopper. At the same time this construction will avoid any of the disadvantages which might result from irregularities in the lip of the bottle.

The flange *d* projects below the mouth of the bottle and is arranged close thereto to prevent dust and other foreign matter from accumulating around the mouth of the bottle.

I am aware that changes in the form and proportion of parts and details of construc-

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tion of my invention may be made without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope of the invention.

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

1. In a bottle stopper, the combination of a bail, a cap pivotally secured to the bail and having a depending flange adapted to surround the outer portion of the mouth of the bottle, an annular groove d' arranged upon the inner face of the flange, close to the top of the cap, a button e integral with the cap and having an annular groove e' in the same horizontal plane with the groove d' , and a flat gasket E sprung into said grooves e' , d' and adapted to bear directly upon the lip of

bottle when the bottle is sealed, substantially as described.

2. A cap for a bottle stopper made in one piece and having a depending flange d , two aligned eyelets F on the top of said cap at a suitable distance apart and adapted to receive the bail, and a stud f arranged on the cap between the eyelets and projecting above the plane of the top of the cap so that the bail will rest directly upon the stud, substantially as described.

Signed at New York, in the county of New York and State of New York, this 24th day of April, A. D. 1894.

GEORGE S. CHAMBERLIN.

Witnesses:

HERMAN GUSTOW,
WM. O. BELT.