No. 808,934. PATENTED JAN. 2, 1906.

H. E. LAZARUS.

BOTTLE STOPPER.

APPLICATION FILED SEPT. 5, 1905.

Fig. 1.

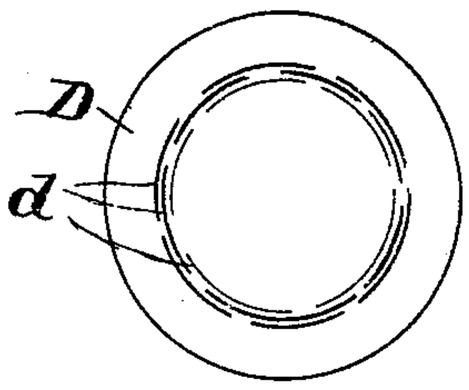


Fig. 2.

Fig. 3.

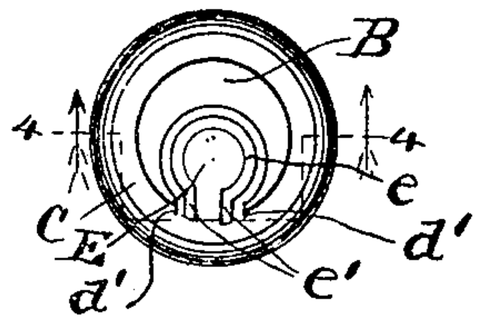


Fig. 5.

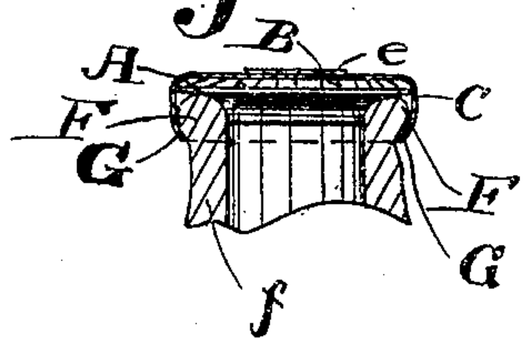


Fig. 7.

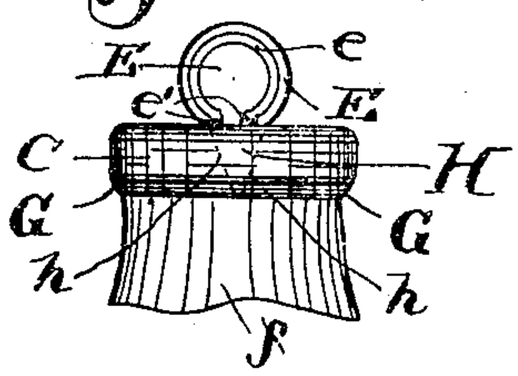


Fig. 4.

Fig. 6.

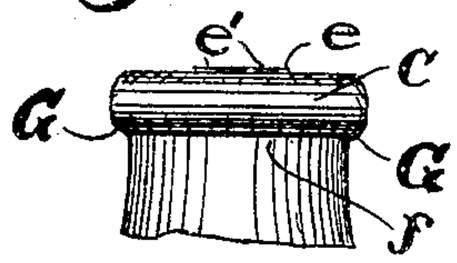
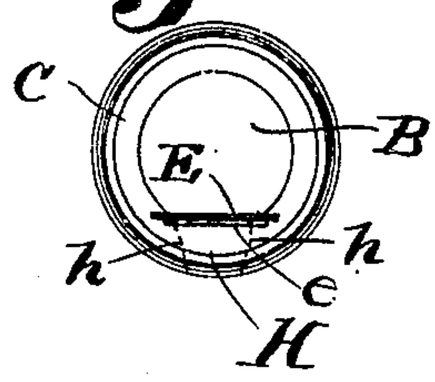


Fig. 8.



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UNITED STATES PATENT OFFICE.

HENRY E. LAZARUS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO ISAAC A. LEVINSON, OF CHICAGO, ILLINOIS.

BOTTLE-STOPPER.

No. 808,934. Specification of Letters Patent. Patented Jan. 2, 1906.

Application filed September 5, 1905. Serial No. 277,069.

To all whom it may concern:

Be it known that I, HENRY E. LAZARUS, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete description sufficient to enable those skilled in the art to which it pertains to understand, make, and use the same.

This invention relates to the class of bottle-stoppers which include a metal piece or part secured to the outside of the neck of a bottle and maintained in position thereon by an annular rib around such neck adjacent to the top thereof; and the object of this invention is to obtain a bottle-stopper of the class named which can be removed from the bottle without the aid of a tool of any kind.

A further object of the invention is to obtain a bottle-stopper of the class named which will not be liable to become accidentally removed or injured in such manner as will render its removal by hand difficult; and a further object of the invention is to obtain a bottle-stopper of the class named which will be sightly in appearance, simple in construction, economical in cost, and effective in operation.

I have illustrated a construction embodying this invention in the drawings referred to, in which—

Figure 1 is a top plan view of a blank of sheet metal from which one of the elements of the bottle-stopper is formed up. Fig. 2 is a side elevation of the blank illustrated in Fig. 1 formed up into one of the elements of the bottle-stopper as the same is placed over the neck of a bottle after such bottle is filled. Fig. 3 is a top plan view of the element illustrated in Fig. 2 superimposed upon an additional element also forming a part of the bottle-stopper embodying this invention. Fig. 4 is a side elevation of parts forming additional elements of the bottle-stopper. Fig. 5 is a vertical sectional view of the top of a bottle-neck and a bottle-stopper thereon embodying this invention. Fig. 6 is an elevation of the top of a bottle-neck and a bottle-stopper thereon embodying this invention. Fig. 7 is an elevation of the top of a bottle-neck and of a stopper embodying this invention with a part of the element illustrated in Figs. 2, 3, 5, and 6 bent up in position to sieze to remove the stopper from the bottle; and Fig. 8 is a top plan view of the bottle-stopper with the several parts thereof in the position illustrated in Fig. 7.

A reference-letter applied to designate a given part is used to indicate such part throughout the several figures of the drawings wherever the same appears.

The bottle-stopper embodying this invention comprises three pieces—the piece adjacent to the top of the neck of the bottle closed by the stopper, being preferably cork, (lettered A in Figs. 4 and 5,) a piece B, superimposed on piece A, Figs. 3, 4, 5, and 8, and the top part or piece C. Part or piece C is cut and formed up from blank D, Fig. 1. *d d*, Fig. 1, represent lines on which blank D is bent to obtain piece C, as illustrated in Figs. 2 and 3. By reference to Fig. 2 it will be seen that the sides of piece C are substantially cylindrical to slip readily over the neck of a bottle. The top of the part C is cut—as, say, a C-shaped piece is cut out—as shown in Fig. 3 (through which cut part B is exposed to view in Fig. 3) and on lines *d' d'*, respectively. By the cutting of the top of the part C, as described, there is obtained a thumb-piece E, Figs. 3, 7, and 8, which may be turned up into substantially the position illustrated in Figs. 7 and 8 and grasped to open, in a manner hereinafter described, the stopper. At all times, except when the stopper is about to be opened, the thumb-piece E is intended to lie in the same plane as the remainder of the top part C, and to increase the tendency of such thumb-piece E to so remain in such horizontal plane I form the raised rib *e e'*. Part *e'* of such raised rib is particularly instrumental in holding thumb-piece E in close contact with piece B.

f is the upper end of a bottle-neck.

F, Fig. 4, is the annular rib formed on neck *f*.

After the several parts of the bottle-stopper embodying this invention have been assembled and placed on the top of the neck *f* to be closed thereby the lower end of the cylindrical wall of part C of the stopper is forced inward against the rib F, as at G G, Figs. 5, 6, and 7. By the forcing in of the cylindrical wall of part C, as described, the bottle-stopper is securely fastened to the top

of the neck *f* and the contents of the bottle are secured therein. To open the bottle-stopper, thumb-piece E is bent into substantially the position thereof illustrated in Figs. 7 and 8 and is seized between the thumb and a finger and the part lettered H, Figs. 7 and 8, is torn from the remainder of part C—as, say, along the broken lines *h h*, Figs. 7 and 8. Part C can then be readily taken off the neck of the bottle and the stopper opened.

Having thus 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 cork piece, a disk thereon, and an additional piece formed up to obtain a top and a cylindrical wall, such cylindrical wall arranged to be forced inward into close contact with the neck of a bottle, and such top cut to obtain a thumb-piece, arranged to be bent into position to be seized and thereby a strip torn from the top and cylindrical wall-piece to release it from the bottle-neck, and such thumb-piece provided with a raised rib, tending to maintain the thumb-piece in the same plane as the remainder of the top; substantially as described.

2. The combination of a bottle-stopper and the neck of a bottle, the neck of the bottle provided with an annular rib and the bottle-stopper consisting of a cork piece, a disk thereon, and an additional piece formed up to obtain a top and a cylindrical wall, such cylindrical wall arranged to be forced inward into close contact with the neck of the bottle and under the annular rib thereon and such top cut to obtain a thumb-piece, arranged to be bent into position to be seized and thereby a strip torn from the top and cylindrical wall of the additional piece to release it from the bottle-neck, and such thumb-piece provided with a raised rib tending to maintain the thumb-piece in the same plane as the remainder of the top; substantially as described.

HENRY E. LAZARUS.

In presence of—
CHARLES TURNER BROWN,
ISAAC A. LEVINSON.