(No Model.)

F. J. DEVERALL.

BOTTLE STOPPER.

No. 313,926. Patented Mar. 17, 1885.

Fig. 1.

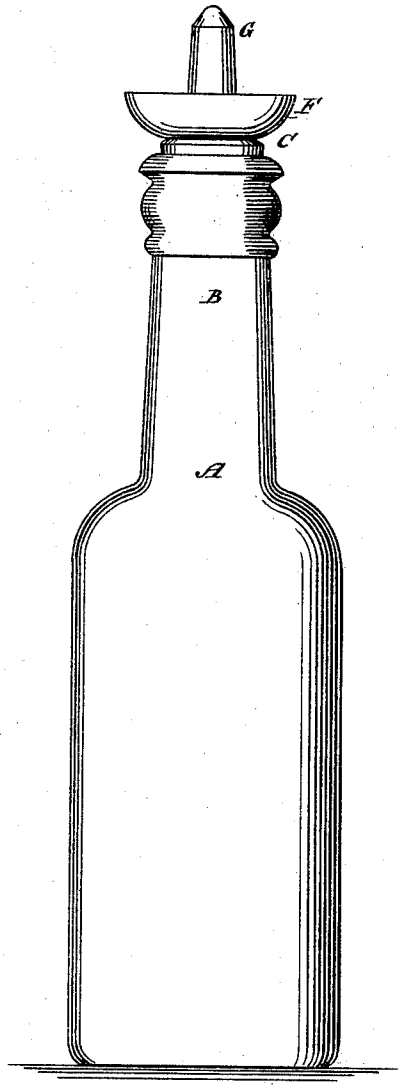


Fig. 2.

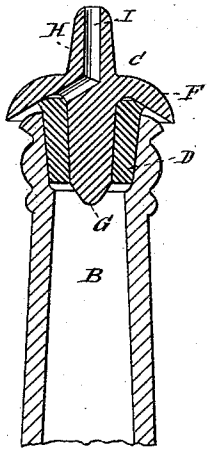


Fig. 3.

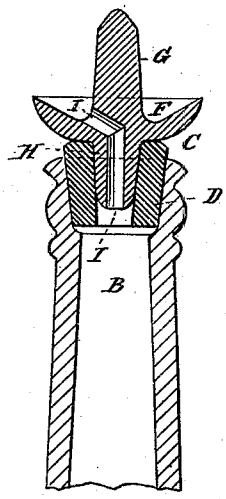


Fig. 4.

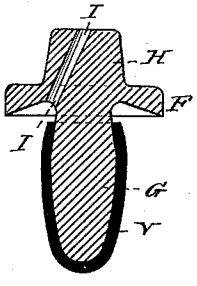
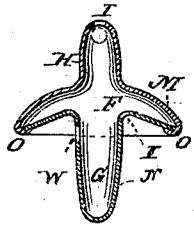


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

FREDERICK J. DEVERALL, OF JERSEY CITY, NEW JERSEY.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 313,926, dated March 17, 1885.

Application filed January 22, 1885. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK J. DEVERALL, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

The invention relates to improvements in bottle-stoppers; and it consists in a novel reversible attachment, which, when inserted into the neck of a bottle, will either seal the same or permit the contents to be poured therefrom according to which end of the attachment is within the neck. If it be desired to seal the bottle, one end of the attachment will be inserted into the neck thereof, and when a portion of the contents is to be poured out the attachment will be reversed, its other end being at this time inserted into the neck. The attachment is reversible at will, and may be constructed of sheet metal, wood, rubber, iron, or glass, or any other suitable material, according to the wish of the manufacturer.

The distinctive characteristics of the invention, together with its advantages, will appear in the detailed description hereinafter presented, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a bottle having a stopper embodying the elements of the invention. Fig. 2 is a central vertical section of the neck of same, showing the bottle sealed. Fig. 3 is a like view of same, illustrating the position of the stopper when in position to permit the contents of the bottle to be poured out; and Fig. 4 is a central vertical section of a stopper, one end of which has a covering of rubber. Fig. 5 is a central vertical section of the stopper, showing the reversible portion thereof constructed of sheet metal.

In the accompanying drawings, A denotes the bottle; B, the neck thereof, and C the stopper, one end of which is shown inserted through a ring of cork or other suitable material, D, fitting within the mouth of the bottle. The reversible stopper C is composed of the stop or bowl F, the post G, projecting from the concave side of said bowl, and the tube H, extending from the opposite side thereof and in line with the said post. A passage, I, is formed through the tube H, and terminates at one side of the post G and at the lowest point in the concave surface of the bowl F. When the post G of the stopper is inserted through the opening in the ring of cork D, the bowl F will be in a reversed position over the edges of the bottle, and the cork will close the passage I, as shown in Fig. 2, whereby the escape of the liquid is prevented and air or dust is excluded from entrance to the bottle. The bowl F, when in the position described, presents a very desirable finish to the bottle and leaves no projecting edges wherein dust or other matter may accumulate. It may, moreover, be given a milled periphery or otherwise ornamented, as desired.

When the bottle is in use, the position of the stopper C will be reversed, the tube H being inserted into the ring of cork D, at which time the liquid may have a free outlet through the passage I, as shown in Fig. 3. When the lower end of the bottle is turned upward, as in the act of pouring therefrom, the liquid will escape through the passage I and run along the exterior surface and drop from the end of the post G. Upon restoring the bottle to its upright position any of the liquid remaining on the post G will be caught by the bowl F and return into the bottle through the passage I, thus effectually preventing any of the liquid from trickling down the outside of the bottle or being wasted.

The bottle-stopper above described may be employed for sauce, perfumery, liquors, oils, or other liquids, as may be desired. The stopper shown in Figs. 1, 2, and 3 is made of a single piece of material, while in Fig. 5 I illustrate a form of the attachment when made of two pieces of sheet-metal, M N, connected by a seam at O.

The ring D may be of cork, rubber, or other material, according to the wish of the manufacturer or the nature of the liquid in connection with which it is to be used, and in lieu of the ring of cork the post G may be coated with rubber or other elastic material by dipping or otherwise, as indicated at V in Fig. 4, the rubber serving to prevent any escape of the liquid

between the post and the walls of the bottle. When the stopper shown in Fig. 4 is reversed, the end H thereof will fit within the mouth of the bottle, completely filling it.

For some purposes the stopper may be used without either the cork D or rubber V, the tube and post of the same being made to snugly fit the mouth of the bottle, or the stopper may be entirely coated with rubber, if preferred.

When it is desired to cause the liquid to fall in drops from the end of the post G, (as in dropping medicine) the additional opening, W, is provided, as shown in Fig. 5, whereby air is permitted to enter the stopper and assist the passage of the liquid. I reserve the right to construct the device in either form, as may be desired, and to otherwise modify the construction within the scope of my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The bottle-stopper composed of the stop or bowl, a post extending from the concave, and a tube from the opposite side thereof, a passage being formed through the tube and terminating in the bowl at the base of the post, substantially as set forth.

2. The bottle-stopper composed of the bowl or stop F, post G, tube H, and passage I, in combination with the ring of material D, substantially as set forth.

3. The bottle-stopper composed of the bowl or stop, post G, tube H, passage I, and opening W, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 20th day of January, A. D. 1885.

FREDERICK J. DEVERALL.

Witnesses:

CHAS. C. GILL,

JOSEPH H. NEWTON.