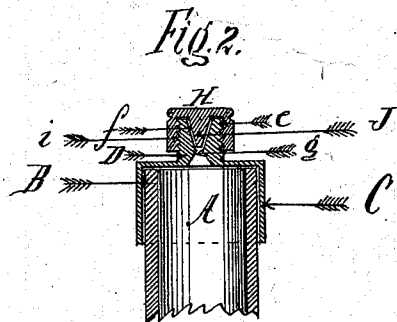
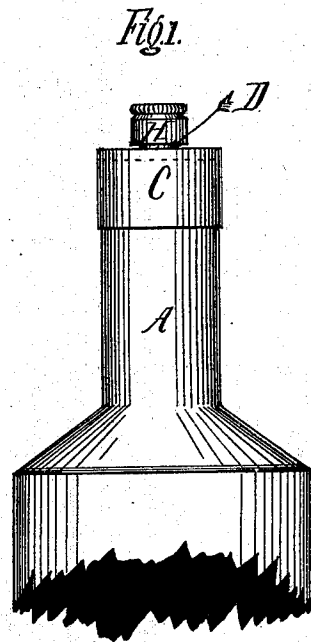


W. T. FRY.
Stoppers for Bottles.

No. 146,129.

Patented Jan. 6, 1874.



WITNESSES:
Richard Gerner
Franklin Barritt

INVENTOR:
William T. Fry
PER *Henry Gerner*
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM T. FRY, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN STOPPERS FOR BOTTLES.

Specification forming part of Letters Patent No. 146,129, dated January 6, 1874; application filed December 13, 1873.

To all whom it may concern:

Be it known that I, WILLIAM T. FRY, of Brooklyn, Kings county, State of New York, have invented certain Improvements in Stoppers for Bottles, of which the following is a specification:

The object of my invention is to provide for a cheap, easily adjusted, and reliable stopper for bottles. My invention consists in the placing on the end of the neck of a bottle a metallic cover, which fits the grounded end of the neck so tightly that no liquid will pass between the cover and the neck of the bottle. This metallic cover is provided with a nipple on the top, the outside of which is threaded to receive a metallic cap threaded on the inside. In the center and top of this last-mentioned cap is placed a conical stopper cast thereto, which fits into a corresponding cone bored out in the center of the nipple. From this cone downward the nipple is perforated, so as to leave an opening into the bottle. The cap being screwed over the nipple will cause the conical stopper to go down into the cone provided for in the inside of the nipple, and prevent any liquid from escaping between the threads of the cap and the nipple.

In order to describe my invention more

fully, I refer to the accompanying drawing forming a part of this specification.

Figure 1 is a side view of a bottle and stopper embodying my invention; Fig. 2, sectional view of the same.

A is a bottle. B is the ground neck of bottle A. C is the metallic cover. D is the nipple of cover C; *e*, the threads around the nipple D. *f* is the cone inside the nipple D. *g* is the opening in the lower part of nipple D. H is the cap for nipple D; *i*, the threads inside cap H. J is the conical stopper in the center and top of cap H.

I am aware that screw-covers are used as stoppers for bottles; and also that the tightness of these depend upon pressing the end of the neck against the top of the cover.

I do not claim this to be any part of my invention; but

What I desire to claim is—

The conical stopper J and cone *f*, in combination with cap H and cover C, substantially as and for the purpose hereinbefore set forth.

WM. T. FRY.

Witnesses:

ANTON C. CRONDAL,
J. H. GRANT.