

H.C. Pratt,

Bottle Stopper.

No. 104,766.

Patented June 28, 1870.

fig. 1.

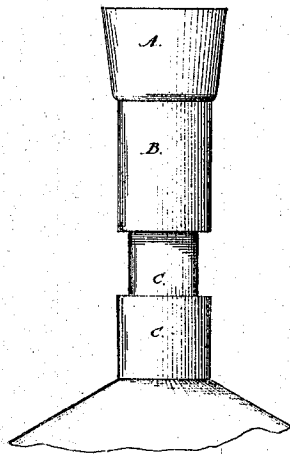
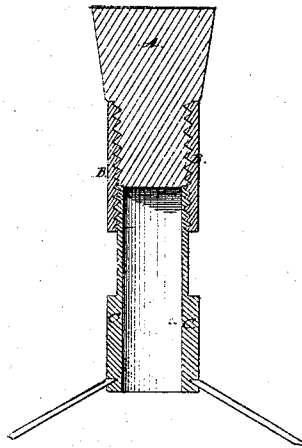


fig 2.



Witnesses,

W. Q. Addison
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UNITED STATES PATENT OFFICE.

HENRY C. PRATT, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **104,766**, dated June 28, 1870.

I, HENRY C. PRATT, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Bottle-Stopper, of which the following is a specification:

Figure 1 of the drawing is a side elevation of the top of a can upon which is adjusted one of the stoppers which constitutes my invention. Fig. 2 is a vertical section through the center of the stopper and nozzle, showing a sectional view of the different parts when the stopper is screwed down tightly.

Like letters indicate like parts in the several figures.

My invention consists in applying to a tubular nozzle of a metallic can or vessel a screw-stopper which is constructed by cutting a screw-thread on the inside of a hollow cylinder or tube through its entire length, leaving it open at both ends. I then screw a cork tightly into one end of this hollow cylinder, forcing it in far enough to make it secure without a metal covering at the outer end, a screw-thread having been cut upon the outside of the nozzle or mouth to the can or vessel, which screw-thread corresponds with and fits the thread of the screw on the inside of the stopper. The stopper is screwed tightly down until the end of the nozzle is firmly pressed against the base of the corks and indents upon its elastic surface, forming a tight joint impassable by the fluid contained in the can or vessel, thus securing it against leakage, and, when the contents of the can or vessel are volatile or inflammable oils or fluids, providing a safeguard against the accidents which so frequently occur from the imperfect confinement of such fluid.

A in the drawing represents the cork or other elastic plug. B B is the cylinder, open at both ends, into which the cork is screwed. C C is the nozzle or mouth of the can or vessel, upon which is cut a screw-thread, and over which the cylinder B B is screwed.

The screw-thread on the outside of the nozzle may be carried down close to the top of the can

or vessel, or it may be left quite short, passing only a few turns around the nozzle, as in the drawing which accompanies this specification, provided that the metal be cut away from the outer surface of the nozzle below the screw-thread sufficiently to permit the cylinder B to be screwed down without impediment until the cork has thoroughly closed the vent of the nozzle.

Some of the advantages resulting from having the cork projecting through the top of the cylinder B are, first, that there is the assured certainty of the cork being there, whereas the thin layers of cork or other materials are frequently lost out of the covered stoppers and not missed until some waste or injury has happened; second, in the event of abrasion or imperfection in the bearing-surface of the cork, it can be withdrawn and made even by paring with a knife, and then replaced; third, the projecting portion of the cork or plug being of elastic material serves as a protecting cushion or buffer to the stopper.

In some instances I construct the stopper-casing which surrounds the cork or other elastic plug by having the screw-thread on the inside thereof one-half right hand and one-half left hand, with a groove or channel around the center, dividing the right and left hand screw-threads from each other, and I insert the cork or other elastic plug through the screw-thread and across the groove or channel until it touches the reversed screw-thread.

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

The stopper composed of the plug or cork A and interior screw-threaded cylinder B, adapted to screw upon the neck C, substantially as herein set forth.

HENRY C. PRATT.

Witnesses:

JOHN O. EARL,
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