H. P. ROBERTS.

DEVICE FOR SEALING BOTTLES.

APPLICATION FILED JUNE 8, 1908.

916,198. Patented Mar. 23, 1909.

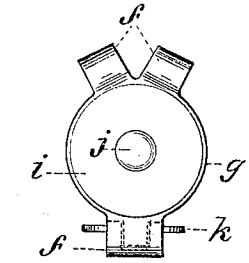


Fig. 2.

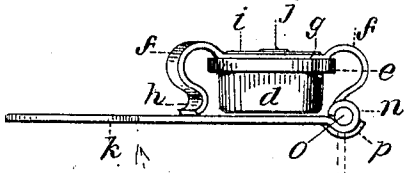


Fig. 5.

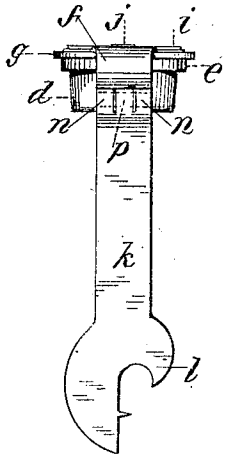


Fig. 4.

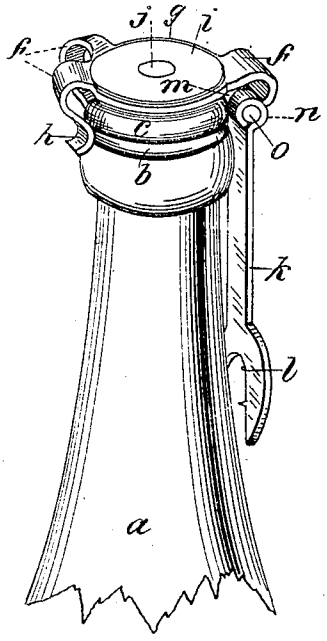


Fig. 1.

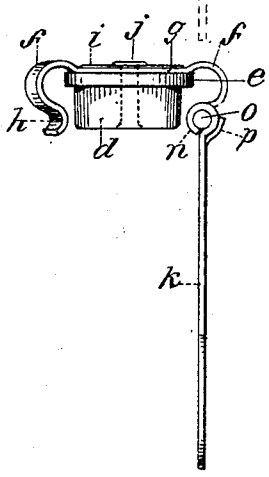


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY P. ROBERTS, OF BOSTON, MASSACHUSETTS.

DEVICE FOR SEALING BOTTLES.

No. 916,198. Specification of Letters Patent. Patented March 23, 1909.

Application filed June 8, 1908. Serial No. 437,240.

To all whom it may concern:

Be it known that I, HENRY P. ROBERTS, a citizen of the United States, residing in Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Devices for Sealing Bottles, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to devices for closing the mouth of a bottle.

It frequently happens that only a portion of the contents of a bottle may be required for use, but the cork or other closure having been made useless or destroyed by removal, it is often difficult to stop the mouth of the bottle securely enough to preserve the contents thereof unimpaired, this being particularly true in cases in which substances are dissolved under pressure in a fluid, as the gas contained in an effervescing beverage.

It is the purpose of this invention to provide a seal for a bottle which may be readily attached to and removed from the bottle neck after the original closure has been broken.

The invention consists of a stopper of rubber, cork, or other suitable material, means for holding the stopper in the bottle mouth in a detachable manner, projections or recesses found near the top of the bottle neck, spring clips overlapping the stopper and the projections or recesses, a releasing device connected with a clip, and in such peculiar arrangements of parts and details of construction as will be more fully described.

The drawings show a preferred embodiment of the invention, in which:

Figure 1, is a perspective view of the bottle seal complete. Fig. 2, is a plan of the stopper and attachments. Fig. 3, is a side elevation of the same. Fig. 4 ,is an end elevation of the same. Fig. 5, is a side elevation of the same with releasing device folded.

Many ordinary bottles are adapted for use with my sealing devices, as it is only necessary to have a groove, a bead, or some equivalent, near the top of the bottle to receive the attaching devices of the stopper. As illustrated the bottle neck *a* is grooved at *b* forming the bead *c* near the top of the bottle. The stopper *d*, preferably made of rubber, is formed with a projecting flange *e* that rests on the edge of the bottle mouth, while the main portion of the stopper extends into the mouth of the bottle a short distance.

Spring clips *f* are attached to the stopper in some convenient manner. The illustration shows the clips made from sheet metal integral with a central plate *g* that covers the top of the stopper, and the clips are bent downwardly over the flange *e* of the stopper, then inwardly toward the axis of the stopper to seat firmly in the groove *b* below the bead *c* of the bottle neck, the extremities *h* of the clips being flared outwardly to facilitate their slipping over the said bead *c* when applying the stopper to the bottle. Generally a thin disk *i* of celluloid bearing printed advertising matter will cover the central plate *g*, and the disk, plate with the clips, and the stopper may be united by a rivet *j*. Such a stopper may be applied to and securely held in place in the bottle neck by forcing the clips *f* over the bead *c*, and the stopper might be removed by grasping the plate and pulling the clips over the bead *c*, but for greater convenience one of the clips is prolonged into an arm as *k* which rests closely against the bottle neck, so that, upon pulling outwardly on the arm its connected clip extremity *h* will pass over the bead *c* and release the stopper from the bottle neck. As many bottles are now sealed with metal caps crimped over the edges of the bottle necks, the arm *k* may terminate in a claw as *l* adapted for the removal of such caps from bottles. It is advantageous to fold the arm *k* close to the clip, so the hinge member *m* is formed in the extremity of the clip, and the hinge member *n* is formed on the arm *k*, the members being united by a pin *o*, and from the clip or the arm a lug *p* is projected to interlock the parts of the hinge, preventing motion in the direction the arm moves to release the clip from the bottle neck, while permitting the arm to fold against the stopper as in Fig. 5, in which position the sealing device may be carried in one's pocket.

Having described my invention, I claim and desire to secure by Letters Patent of the United States:

In a bottle seal, a stopper, spring clips fastened to the stopper, a device hinged to a clip adapted in one position to release the stopper from a bottle and in another position to fold to the remaining clips, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY P. ROBERTS.

Witnesses:
GEORGE CLARENDON HODGES,
CHAS. F. HOWE.