(No Model.)

S. B. KING.

BOTTLE STOPPER.

No. 265,424. Patented Oct. 3, 1882.

Fig. 1.

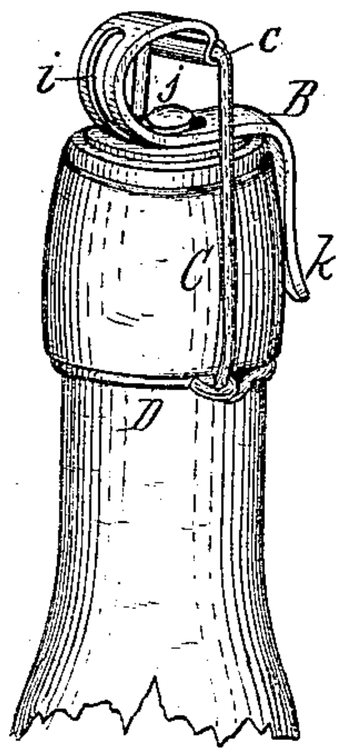


Fig. 2.

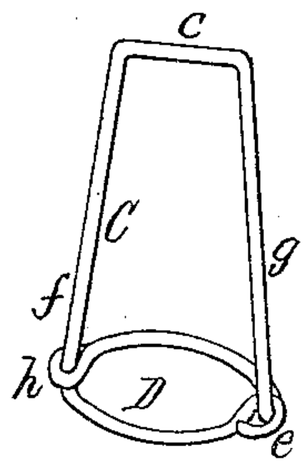


Fig. 3.

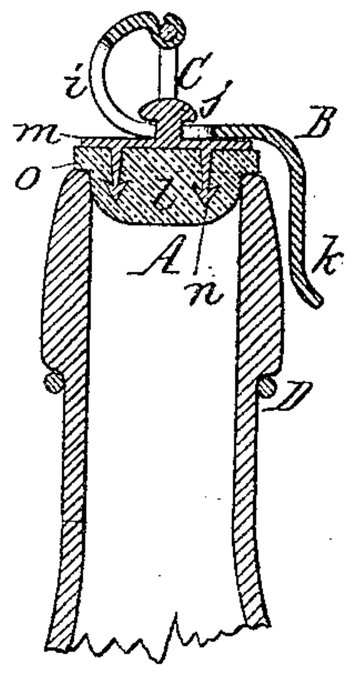


Fig. 4.

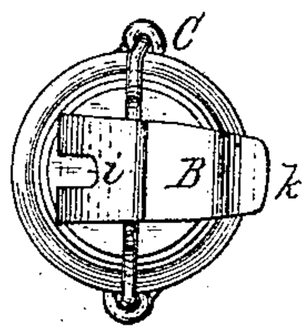
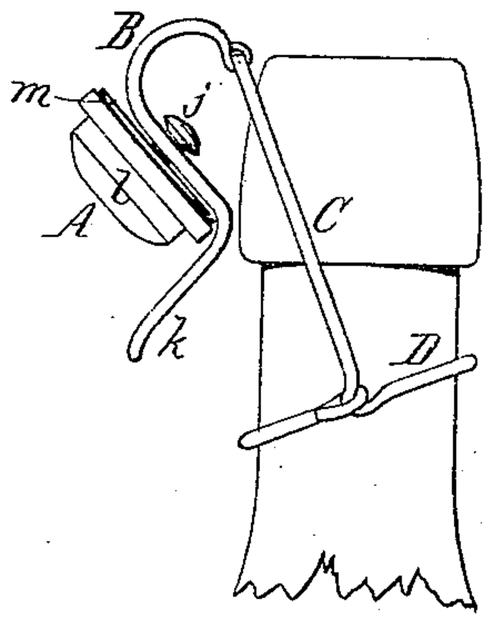


Fig. 5.



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UNITED STATES PATENT OFFICE.

SIDNEY B. KING, OF BUFFALO, NEW YORK.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 265,424, dated October 3, 1882.

Application filed February 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY B. KING, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

This invention has reference more particularly to that class of bottle-stoppers in which an eccentric lever attached to a wire bail is employed for holding the stopper down to its seat in the mouth of the bottle.

The object of this invention is to simplify the construction of this class of bottle-stoppers; and my invention consists of the particular construction of my improved bottle-stopper, which will be hereinafter fully set forth.

In the accompanying drawings, Figure 1 represents a perspective view of the neck of a bottle provided with my improved stopper. Fig. 2 is a perspective view of the wire bail. Fig. 3 is a sectional elevation of the bottle-stopper. Fig. 4 is a top plan view of the same. Fig. 5 is a view of the bottle with the stopper removed.

Like letters of reference refer to like parts in each of the figures.

A represents the stopper; B, the eccentric lever, to which it is attached; C, the wire bail, to the upper cross-bar, *c*, of which the lever B is pivoted; and D is the ring which encircles the neck of the bottle, and whereby the bail is attached to the bottle. The bail C and ring D are formed of a single piece of wire bent to the proper form. One end of the wire of which the bail and ring are formed is bent into an eye, *e*. The wire extends from this eye around one half the circumference of the neck of the bottle, is then turned upward, as shown at *f*, then horizontally where it forms the pivot *c*, then downwardly on the opposite side, as shown at *g*, to and through the eye *e*, thence around the other half of the circumference of the neck of the bottle to the lower portion of the upright part *f* of the wire, around which the end of the wire is twisted, as shown at *h*. In this manner the bail and ring are formed of a single piece of wire, whereby a light, strong, and cheap fastening is produced. The eccentric lever B is pivoted to the horizontal portion *c* of the bail. It is preferably constructed of sheet metal and provided with a longitudinal slot, *i*, in which plays the shank of a rivet, *j*, by which the stopper A is attached to the lever B. The latter is curved so that the distance of the slot *i* from the pivot *c* of the lever increases gradually from the end of the slot which is nearest the pivot to the farther end thereof. The lever B is provided with a thumb-piece, *k*, by which the lever is operated. The stopper A is provided with a head, *l*, of rubber, cork, or other suitable material, which is secured to a disk, *m*, of metal, by one or more pointed and barbed studs, *n*. The latter project from the under side of the disk *m* into the head *l*, but do not extend through the same. When the head *l* is constructed of rubber it is constructed in one piece with the marginal flange *o*, which bears against the end of the neck of the bottle, as shown. If the head *l* is constructed of cork, the marginal flange *o* is formed by a separate disk of rubber placed between the head *l* and the disk *m*. The stopper A is attached to the lever B by means of the rivet *j* in such manner that the stopper plays loosely on the lever. Upon swinging the lever B down so as to close the stopper against the mouth of the bottle the slot of the lever slides over the shank of the rivet *j* and the eccentric form of the lever tightens the stopper upon its seat. Upon swinging the lever B upward the stopper is lifted from its seat, and can then be turned back out of the way. The ring D is preferably fitted loosely on the neck of the bottle, so that it drops down on the same when the stopper is released, whereby the stopper and the parts attached thereto are lowered below the mouth of the bottle, so that the latter is unobstructed when the contents of the bottle are poured out. Upon applying the stopper to the mouth of the bottle and tightening the lever B the ring D is drawn up against the shoulder or collar surrounding the mouth of the bottle.

I claim as my invention—

1. The combination, with the bail C, of the lever B, pivoted thereto and constructed of sheet metal bent to recede gradually from the fulcrum of the lever, and provided with a longitudinal slot, *i*, in its eccentric portion, and a stopper, A, provided with a vertical rivet, *j*, sliding in the slot *i* of the lever, substantially as set forth.

2. The combination, with the disk *m*, having one or more pointed and barbed studs, *n*, of a stopper-head, *l*, secured to the disk *m* by said stud or studs, substantially as set forth.

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