

No. 705,103.

Patented July 22, 1902.

E. A. LEVICK.  
BOTTLE CLOSURE.

(Application filed July 18, 1901.)

(No Model.)

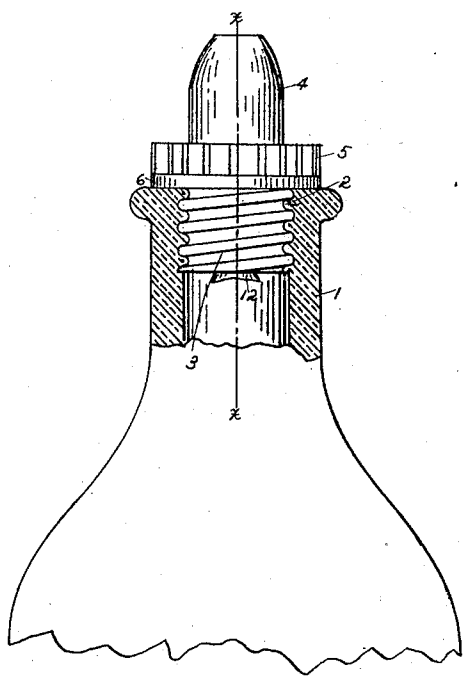


Fig 1

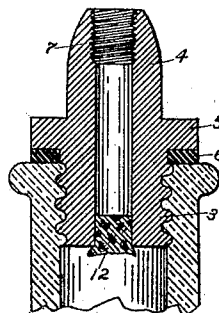


Fig 2.

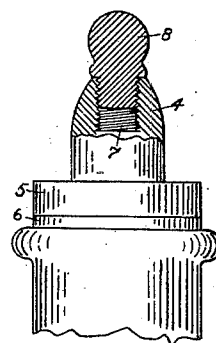


Fig. 3.

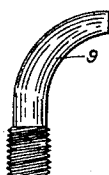


Fig 4

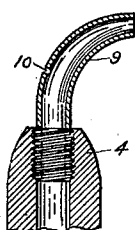


Fig. 5



Fig. 6.

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# UNITED STATES PATENT OFFICE.

EDWARD A. LEVICK, OF DURYEA, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS TO THE SCRANTON GLASS MFG. COMPANY.

## BOTTLE-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 705,103, dated July 22, 1902.

Application filed July 16, 1901. Serial No. 68,486. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD A. LEVICK, a citizen of the United States, residing at Duryea, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Closures, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to stoppers for bottles in general, and more particularly to that class of stoppers in which an opening is formed through which the contents of the bottle may be discharged by jolting or shaking.

15 The objects of the invention are to provide a convenient construction for the stoppers of bottles in which catchup is to be served, a convenient shaking-stopper for barbers' lotions, a suitable stopper for an attachment of 20 an ink-pouring device, and means for providing a secret closure in such stoppers, and other objects, as are set forth, and more particularly pointed out in the claims.

To these ends the invention consists of the 25 arrangement, construction, and combination of the several parts specified and illustrated in the accompanying drawings, in which—

Figure 1 illustrates one of my stoppers inserted into the neck of a bottle adapted to receive the same. Fig. 2 is a view in cross-section taken on the line *x x* of Fig. 1. Fig. 3 is a view of one of my stoppers fitted with a suitable plug. Fig. 4 is a detail view of the plug adapted to be inserted in the stopper. Fig. 5 30 is a detail view of a spout suitable for pouring ink and other substances, attachable to the stopper when the plug is removed. Fig. 6 is a cross-section showing more particularly the details of construction of the spout aforesaid and method of inserting it.

40 Similar characters of reference denote like and corresponding parts throughout the several views.

Referring to the drawings, 1 designates the 45 neck of a bottle, to which one of my improved stoppers is attached by means of the internal screw-thread 2.

3 designates the threaded shank of the stopper, by means of which the stopper is secured 50 to the screw-threads 2. The upper part of the stopper (designated 4) may or may not be

internally screw-threaded, as shown in the cross-section, as it is possible to use my stoppers without attaching an additional spout, the top part 4 being adapted to be used as a 55 spout when the bottle is used for catchup. A flange 5, suitably milled to serve as a grasping-piece or handle, forms the central part of the stopper and is adapted as a flange to clamp the usual rubber washer 6 against the 60 upper part of the neck of the bottle for the purpose of making a tight and sufficient closure. The whole of the stopper thus far described may be molded from glass, porcelain, or other suitable material. In smaller-sized 65 bottles it may be made from iron, pewter, or brass. The opening or central passage extending through the stopper is adapted to be closed by a secondary stopper 12, which may be made of cork, rubber, or other suitable 70 substance, fitted into the lower part of the screw-threaded shank. This closure should be made in the stopper before inserting into the neck of the bottle. The upper part 4 of the stopper when provided with internal 75 screw-threads 7 may also be fitted with a plug 8, giving the bottle a more attractive commercial appearance, or if ink is to be vended in the bottle or any other liquid requiring very careful pouring instead of the ordinary jolt- 80 ing the stopper is provided with a spout 9, which may be curved, so as to more readily serve its purpose, and in the angle of the spout a small air-hole 10 is provided for the purpose of effecting a regular flow. The plug 85 and spout just mentioned are not necessary features of my stopper; but the more particular feature which I wish to claim is embodied in the insertion of the closure in the lower part of the stopper, where it is out of sight 90 and to all intents and purposes may be unknown except to the parties who are entitled to use the bottles in which it is employed.

In using my invention the small cork is inserted in the lower part of the stopper and the 95 gasket 6 around the screw-threaded shank. The bottle then having been filled with its contents, the stopper is screwed into its place, and the bottle is ready for transportation. When it is desired to use the contents, the 100 stopper is removed by taking hold of the grasping-piece 5 and unscrewing the stopper

as a whole. Then with the other hand the small cork is removed and the stopper again inserted. The plug 8 may then be used or dispensed with, as is desired. If the spout 9 is attached, the operation is the same. In this way I provide a stopper which allows of the ordinary wide neck or opening in a bottle for inserting contents, and at the same time I provide a narrow passage-way for the ejection of the contents in small quantities, and the said passage-way is readily closed by a cork or other means hidden from the eye when it is desired to protect the contents thereof from loss or waste.

15 Having thus described my invention and the operation thereof, what I desire to secure by Letters Patent is—

20 1. In a bottle-closure of the kind described having a shank extending into the neck of the bottle, a projection above the neck of the bottle, a grasping-flange and gasket centrally located, and a central passage extending through lengthwise of the said closure, in combination with a stopper insertible and remov-

able from the inner end of the central pas- 25 sage, and a curved spout insertible and removable from the outer end of said central passage, all arranged for joint operation, substantially as and for the purpose specified.

2. A bottle-closure of the kind described, 30 comprising a threaded shank extending into the neck of the bottle, a spout projecting above the neck of the bottle, a grasping-flange and gasket centrally located, and a central passage extending through lengthwise of said 35 closure, in combination with a stopper insertible and removable from the inner end of said central passage when the closure is removed, the central gasket arranged to complete the closure when the threaded shank is 40 screwed into the neck of the bottle, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

E. A. LEVICK.

Witnesses:

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GEO. H. WINANS.