No. 670,992.

Patented Apr. 2, 1901.

H. LOMAX & J. TOMLINSON.

OPENER FOR INTERNALLY STOPPERED BOTTLES.

(Application filed Aug. 2, 1899.)

(No Model.)

Fig. 1.

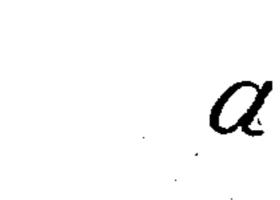


Fig.2.

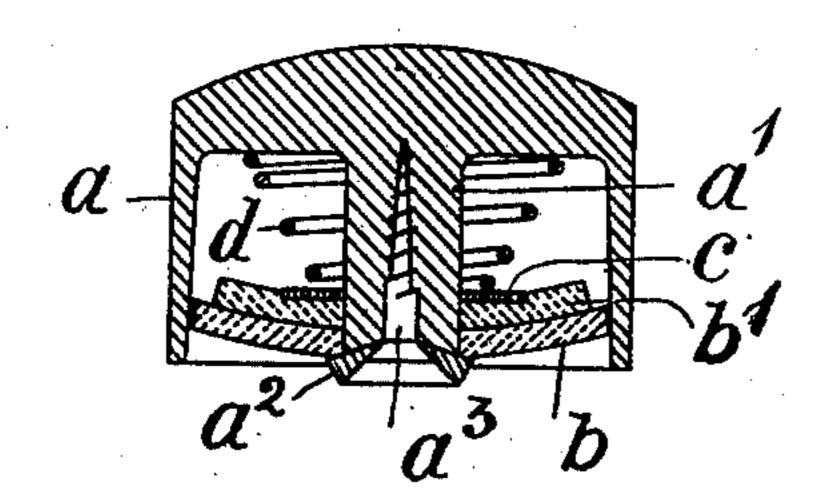
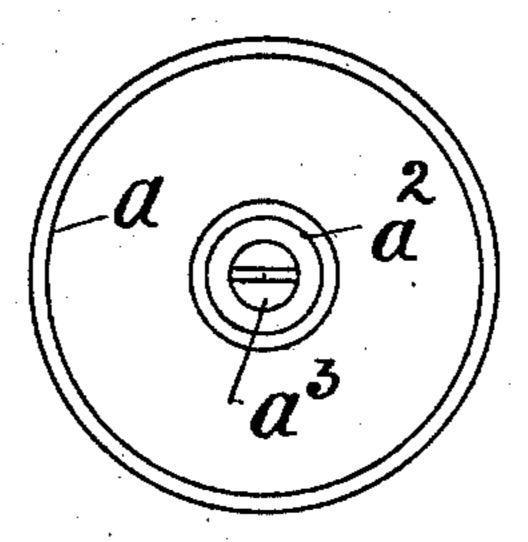


Fig. 3.



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M. Lomax J. Tomlinson Heir Attorney

UNITED STATES PATENT OFFICE

HENRY LOMAX AND JOHN TOMLINSON, OF DARWEN, ENGLAND.

OPENER FOR INTERNALLY-STOPPERED BOTTLES.

SPECIFICATION forming part of Letters Patent No. 670,992, dated April 2, 1901.

Application filed August 2, 1899. Serial No. 725,877. (No model.)

To all whom it may concern:

Be it known that we, HENRY LOMAX and JOHN TOMLINSON, subjects of the Queen of Great Britain, residing at Darwen, in the county of Lancaster, England, have invented certain new and useful Improvements in Openers for Internally-Stoppered Bottles, (application for patent filed in Great Britain on February 13, 1899, and numbered 3,146,) of which the following is a specification.

This invention relates to an improved means for opening or releasing the inwardly-seated stoppers of aerated mineral-water bottles, by the application of which improved means the rim of the bottle-neck is practically hermetically sealed before the stopper is depressed or released from its seat, so that the effusion of the contents is trapped in such a way as to prevent the splashing and spilling generally unavoidable with bottled aerated waters in good condition.

In carrying out this invention we prefer to construct the improved means or openers as hereinafter described and as illustrated in the accompanying sheet of drawings, to which drawings reference will now be made.

In the said drawings, Figure 1 represents an elevation; Fig. 2, a vertical section of our improved bottle-opener, and Fig. 3 a plan of the under side.

A cup a is formed of wood or any other suitable material, preferably in the form illustrated. Such a cup has hitherto been used for the purpose of releasing the stopper and 35 was provided with a central peg, which when the cup was pressed displaced the stopper, the cap simply acting as a shield for confining the splashing of the contents. According to our invention the cup α is also pro-40 vided with a peg a', by which the stopper is displaced when the cup is pressed. We prefer to hollow the end of the peg, as shown on Fig. 2, in order to enable it to center itself upon the crown of the stopper, which is gen-45 erally spherical or convex, and for the purpose of preventing the peg from displacing the india-rubber seating of the stopper. This hollow face a^2 is formed as a head or washer, so as to overhang or flange the end of the

peg. It may also form the head of the screw 50 a^3 , by which it is shown attached to the peg, or the peg may be formed solid with a flange at the end and screwed or otherwise fixed in the cup. In the cup we place a pad of felt cloth or other flexible or soft suitable material having a rigid backing formed by a washer c. Behind the washer is placed a helical or coned spiral spring d. We prefer at present to form the pad of two disks of flexible material b and b'. The disk b fits the bore of the cup, 60 and each disk b b' has a central hole, which fits the peg a', thus allowing said pad to slide thereon.

In the use of the apparatus the disk b first comes into contact with the rim of the bot- 65 tle-neck. A comparatively tight joint is thus made between it and the said rim owing to the disk or pad being flexible and of soft material. Upon pressure being applied to the cup the peg advances and depresses the stop- 70 The effusion of the contents is checked by the joint made between the disk b and the rim of the bottle-neck and by the joint around the central peg; but the pent-upgas can find its way out gradually first into the hollow of the 75 cup. Thus by the checking of the rush of gas and by diffusing it first into the cup waste of the contents of the bottle is prevented and splashing avoided.

What we claim as our invention, and desire 80 to protect by Letters Patent, is—

1. As an article of manufacture, an opener for internally-stoppered bottles containing aerated mineral waters and the like, consisting of a cup-shaped body, having a central 85 projecting peg inside of the cup, an annular pad filling the area between the peg and wall of the cup, and a spring between the pad and bottom of the cup, said peg being sufficiently small to entirely enter the neck of the bottle. 90

2. An opener for internally-stoppered bottles, consisting of the combination of a cupshaped body, a central projecting peg attached thereto, an annular pad filling the area between the peg and wall of the cup, a rigid 95 washer at the back of the pad, a spring surrounding the peg and placed between the washer and cup, and a flange at the end of

the peg for retaining the pad, washer and spring.

3. As an article of manufacture, an opener for internally-stoppered bottles for containing aerated waters and the like, consisting of the combination of an inverted-cup-shaped body, having a central projecting peg, inside of the cup, and a yielding pad within the space between the peg and wall of said cup, and capable of sliding on said peg, said peg

being sufficiently small to entirely enter the neck of the bottle.

In testimony whereof we have hereunto set our hands in the presence of two witnesses.

HENRY LOMAX. JOHN TOMLINSON.

Witnesses:

CARL BOLLÉ, R. J. URQHUART.