

A. KISH.
NON-REFILLABLE BOTTLE.
APPLICATION FILED MAR. 18, 1913.

1,063,355.

Patented June 3, 1913.

Fig. 1.

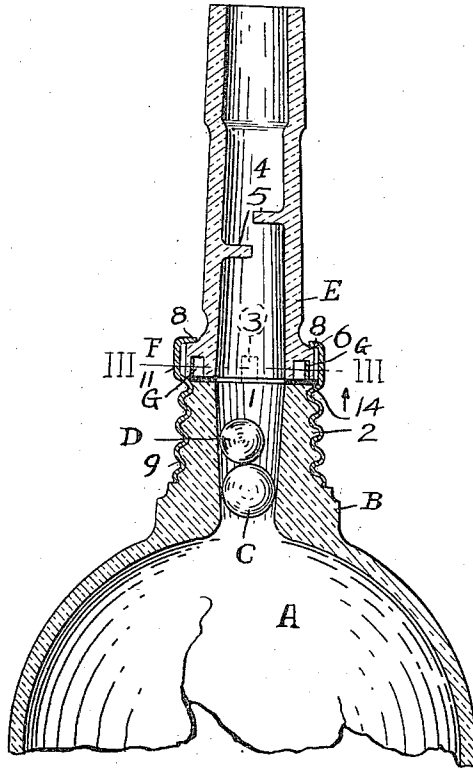


Fig. 2.

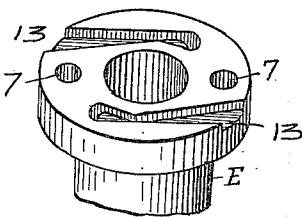


Fig. 3.

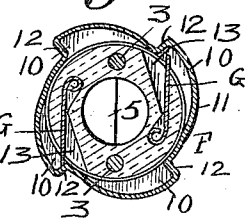


Fig 4

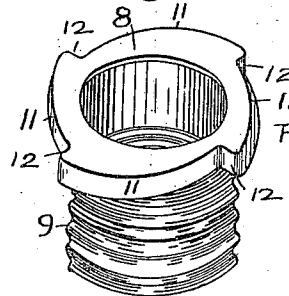


Fig. 5.

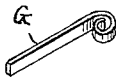
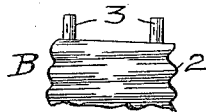


Fig. 6.



WITNESSES

WITNESSES
R. F. Wilburth
Geo. A. Harrison

INVENTOR

INVENTOR
Anpatt Kish,
by Edward A. Lawrence,
his attorney.

UNITED STATES PATENT OFFICE.

ARPATH KISH, OF PORT VIEW BOROUGH, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO JOSEPH SKRAK, OF PITTSBURGH, PENNSYLVANIA.

NON-REFILLABLE BOTTLE.

1,063,355.

Specification of Letters Patent.

Patented June 3, 1913.

Application filed March 18, 1913. Serial No. 755,083.

To all whom it may concern:

Be it known that I, ARPATH KISH, a subject of the Emperor of Austria-Hungary, and residing in the borough of Port View, in the county of Allegheny and State of Pennsylvania, have invented or discovered new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

My invention consists of a new and improved non-refillable bottle or other receptacle.

The objects in view are to provide an inexpensive bottle which cannot be refilled by unauthorized persons when its original contents are exhausted, which can be made without resort to expensive processes of manufacture, and which will closely approximate in appearance the standard types of bottles now in use.

For the above purposes I provide the bottle with a relatively short neck having an inwardly tapering bore in which is seated a light or floatable ball valve, a heavier ball valve, preferably of less diameter being superimposed thereon. Upon the bottle neck I mount an auxiliary neck which is prevented from rotation by means of pins or other members engaging both necks. Said auxiliary neck is provided with two or more horizontal partial partitions which are in staggered relation. An ordinary cork is placed in the upper end of the bore of the auxiliary neck. A screw cap of annular form is screwed down upon external threads on the bottle neck and engages by means of its top flange a circumferential shoulder on the auxiliary neck. Resilient locking fingers mounted between the necks engage the interior wall of said cap which is provided with shoulders which permit the unimpeded screwing on of the cap but positively prevent the unscrewing of the same.

In the accompanying drawings, Figure 1 is a broken vertical section of a bottle to which my invention is applied; Fig. 2 is a broken inverted perspective of the auxiliary neck on enlarged scale; Fig. 3 is a section taken along the line III—III in Fig. 1, looking in the direction of the arrow; Fig. 4 is an enlarged perspective of the screw cap; Fig. 5 is a similar view of one of the locking fingers, and Fig. 6 is a broken side elevation of the upper portion of the bottle neck, showing the pins mounted therein.

The following is a detailed description of the drawings:

A is the body of the bottle which may be, of course, of any design suitable to the use to which it is to be put. The bottle illustrated is a quart whisky bottle and my invention is particularly intended for the protection of standard brands of whisky in the market.

B is the relatively short neck of the bottle whose bore 1 is inwardly tapered to receive the ball valve C which is formed of relatively light or floatable material, such, for instance as wood. Mounted in said bore 1 above ball C is a second ball D which is made of heavier or non-floatable material, such as glass and which is preferably of less diameter than ball C. The outer wall of neck B is provided with the spiral screw-thread 2. The upper or top surface of the neck B is flat and provided with two or more vertical holes in which are seated the metal pins 3.

E is the auxiliary neck which is of tubular form provided with a bore 4 which registers with the bore 1 of the neck B. The bore 4 of the auxiliary neck is provided with two or more staggered, partial partitions 5 and the upper end of said bore 4 is adapted to receive an ordinary cork, not shown. The lower or butt end of the auxiliary neck E is provided with a circumferential flange equal in diameter to the diameter of the bottle neck B and forming a circumferential shoulder 6.

7 represent holes in the auxiliary neck E to receive the pins 3 to prevent the auxiliary neck rotating on the bottle neck.

F is an annular cap or collar provided with an inwardly extending top flange 8 and a threaded body 9 adapted to engage and screw upon the threads 2 of the bottle neck B. The upper portion of the body of the collar F is provided with a circumferentially placed series of seats 10 composed of curved walls 11 ending in angular shoulders 12, said seats being pressed or otherwise formed in the material of collar F.

G represent resilient metal locking fingers which are mounted in recesses 13 in the bottom end of auxiliary neck E and whose outer ends extend beyond the circumference of said neck and trail against the wall of collar F when the same is being screwed

down on the bottle neck B. However, said seats 10 are so placed that when an attempt is made to turn the collar F in the opposite direction to unscrew the same, the ends of said fingers G engage with said shoulders 12 and lock said collar against unscrewing.

14 is a compressible gasket of cork or any other suitable material interposed between the necks B and E to obtain a tight joint. The flange 8 of the collar F bears against the shoulder 6 of the auxiliary neck and forces said auxiliary neck down into tight and rigid contact with the neck B.

In use, the bottle is filled with its authorized contents before the auxiliary neck E and the balls C and D are mounted in place. The balls C and D are then introduced into bore 1, the gasket 14 and pins 3 are properly installed and the auxiliary neck E is then put on, as shown in Fig. 1, the spring fingers G being seated in their recesses 13 with their ends extending outwardly. The collar F is now slipped down over the auxiliary neck E and screwed down on the threads 2 of the neck B until the flange 8 firmly clamps the false neck in place against movement. The fingers G trail over the seats 10 as the collar is screwed down into place but a reverse movement of the collar locks said fingers against the shoulders 12, thus preventing positively the unscrewing of the collar. A cork, not shown, may then be placed in the outer end of auxiliary neck E. When the said cork is removed, the contents of the bottle may be readily poured out by tilting the bottle, the balls C and D rolling out into the larger diameter of the bore 1 and permitting the contents to flow out through the necks. An attempt to fill the bottle through the necks when the bottle is in a vertical position, as shown in Fig. 1, will result in floating the light ball C down snugly into the bore 1, sealing the same, the heavier ball D resting upon the light ball and preventing its displacement. The balls cannot be removed owing to the presence of the partitions 5 nor can a wire or tool be inserted through the auxiliary neck to displace or hold said balls aside. If the bottle be laid upon its side, the ball C will be forced back into its sealing position by the current of liquid, the heavier ball rolling against it and holding it in place. If the bottle be inverted, the current of upwardly entering liquid will hold the light ball in its sealing position. The heavier and outer ball being of glass, protects the light, usually wooden, ball from

being speared by a piece of bent wire which might be forced down through the false neck.

It is thus evident that my bottle when emptied of its original contents cannot be refilled without cutting off the collar F to remove the auxiliary neck and the balls; an operation not likely to be attempted by an unauthorized person as a new collar of identical design must be provided for holding the auxiliary neck in place before the bottle may again be sold or dispensed with its contents. The trade mark or seal of the manufacturer of the goods may be placed on the collar for protection.

The structure of my bottle is simple and the various parts required in its production of the most inexpensive and easy manufacture.

What I desire to claim is:—

1. A non-refillable bottle comprising a body provided with a neck outwardly threaded and having an inwardly tapered bore, balls mounted in said bore and adapted to seal the same, an auxiliary neck provided with a shoulder mounted on said bottle neck and prevented from rotation thereon, a collar provided with locking seats adapted to be screwed down onto said bottle neck and provided with an inwardly extending annular flange adapted to engage the shoulder on said auxiliary neck, and spring fingers mounted on said auxiliary neck and engaging said locking seats whereby the unscrewing of said collar is prevented.

2. A non-refillable bottle comprising a body provided with a neck outwardly threaded and having an inwardly tapered bore, balls mounted in said bore and adapted to seal the same, an auxiliary neck provided with a shoulder mounted on said bottle neck and prevented from rotation thereon, means contained in said false neck to prevent the escape of said balls, a collar provided with locking seats adapted to be screwed down onto said bottle neck and provided with an inwardly extending annular flange adapted to engage the shoulder on said auxiliary neck, and spring fingers mounted on said auxiliary neck and engaging said locking seats whereby the unscrewing of said collar is prevented.

Signed at Pittsburgh, Penna., this 17th day of March, 1913.

ARPATH KISH.

Witnesses:

E. A. LAWRENCE,
A. W. FORSYTH.