(No Model.)

J. B. MARSHALL.

NON-REFILLABLE BOTTLE.

No. 603,110. Patented Apr. 26, 1898.

Fig. 1.

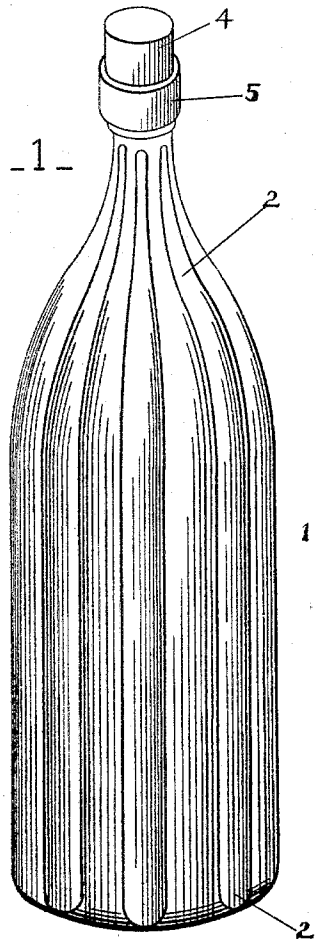


Fig. 2.

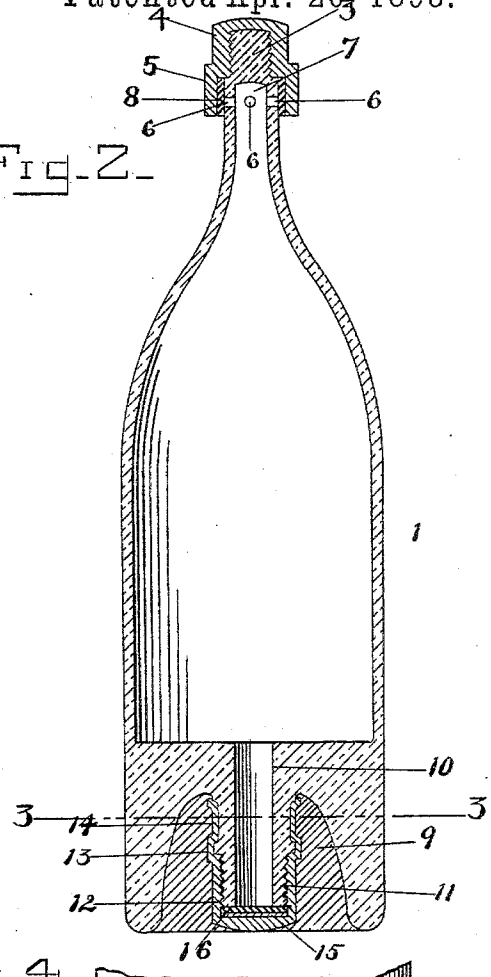


Fig. 3.

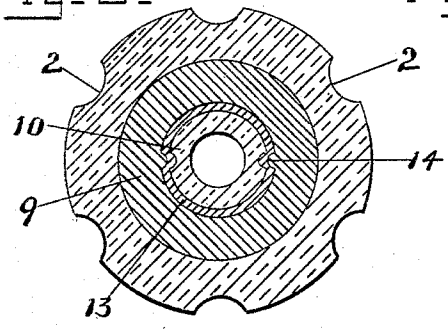
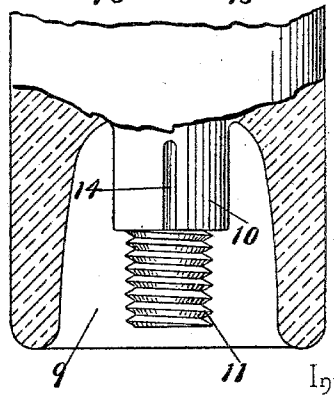


Fig. 4.



Inventor

John B. Marshall

Witnesses

L. R. Medcalf

H. J. T. Riley

By his Attorneys,

C. A. Snow & Co.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN B. MARSHALL, OF FRESNO, CALIFORNIA.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 603,110, dated April 26, 1898.

Application filed June 9, 1897. Serial No. 640,021. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. MARSHALL, a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented a new and useful Non-Refillable Bottle, of which the following is a specification.

The invention relates to improvements in non-refillable bottles.

The object of the present invention is to improve the construction of non-refillable bottles and to provide a simple and comparatively inexpensive one which will be so difficult to be filled that it will prevent fraudulent refilling and adulteration, and thereby insure both manufacturers and consumers of the genuineness of the contents of it.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a bottle constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a horizontal sectional view on line 3 3 of Fig. 2. Fig. 4 is a detail sectional view taken longitudinally of the bottom portion of the bottle and showing the same before the sealing-cap is applied.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a bottle provided with an annular series of longitudinally-disposed exterior grooves or flutes 2 to distinguish it from an ordinary round bottle, but the distinguishing-mark may be varied as desired.

The neck of the bottle is provided with a solid exteriorly-threaded upper portion 3, receiving a cap 4, which has a smooth extension 5, adapted to cover a series of perforations 6, formed in an annular enlargement 7 at the base of the threaded portion 3. The perforations are sealed by a removable band 8, of rubber or similar material, to provide a perfectly water-tight connection between the cap and the bottle. The cap may be readily unscrewed to expose the perforations when it is desired to decant the contents of a bottle.

The bottom of the bottle is provided with a recess or cavity 9, forming a housing for a depending tubular extension 10, which has a supplemental neck or filling-tube and which is adapted to be sealed by the means hereinafter described after the bottle has been filled, so that it is absolutely impossible to refill the bottle by way of the tube 10. The tube 10, which is provided with a lower threaded portion 11, receives a cap 12, constructed similar to the cap heretofore described, and provided with a smooth extension 13, which is adapted, after the cap has been fitted in place, to be sunk into longitudinal grooves or gutters 14, whereby the cap is locked against rotation. The smooth extension 13 of the cap is constructed sufficiently thin or pliable to enable it to be readily forced into the grooves 14 by a pair of pliers or similar tools, and any attempt to unscrew the cap forcibly will result in a breakage of the tube 10. A disk 15, of metal, is arranged within the cap, and an elastic disk 16 is interposed between the metal disk 15 and the lower end of the tube 10.

After the cap has been secured upon the lower tube 10 the entire annular recess or cavity 9 is filled with plaster-of-paris or other desired sealing substance.

It will be seen that the bottle is simple and comparatively inexpensive in construction, that it is absolutely impossible to refill it at the bottom, and that the difficulty incident to an attempt to refill it by introducing a liquid through the small perforations of the neck will practically prevent any such refilling.

What I claim is—

1. The combination of a bottle provided at its bottom with an annular recess and having a depending tube arranged within the same, threaded at its lower portion and provided with a smooth upper portion having a groove or gutter, and a sealing-cap interiorly threaded and arranged on the threaded portion of the tube, said cap being provided with a smooth extension arranged on the smooth portion of the tube and depressed exteriorly and forced into the said groove or gutter and permanently locking the cap on the tube, substantially as described.

2. The combination of a bottle provided at its bottom with an annular recess and having a depending tube arranged within the same,

threaded at its lower portion and provided with a smooth upper portion having a longitudinal groove, a sealing-cap interiorly threaded and arranged on the threaded portion of the tube and provided with a smooth extension, the latter covering the smooth portion of the tube and being depressed into the groove thereof to lock the cap permanently thereon, and a sealing substance filling the said recess and concealing the cap and the tube, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN B. MARSHALL.

Witnesses:
ED. E. BUSH,
W. R. WILLIAMS.