

No. 772,269.

PATENTED OCT. 11, 1904.

R. B. BAILEY.
BOTTLE VALVE.

APPLICATION FILED MAR. 1, 1904.

NO MODEL.

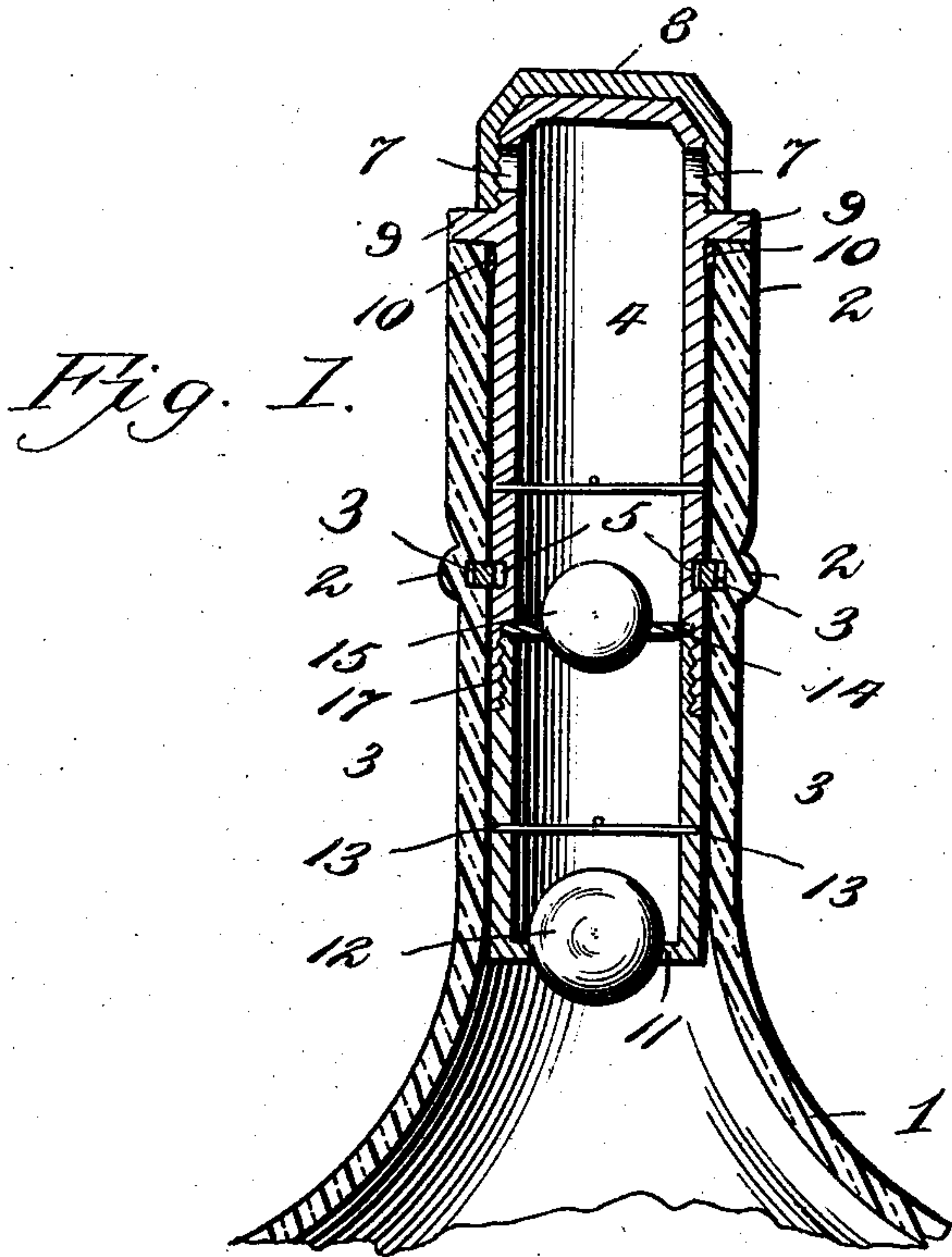


Fig. 2.

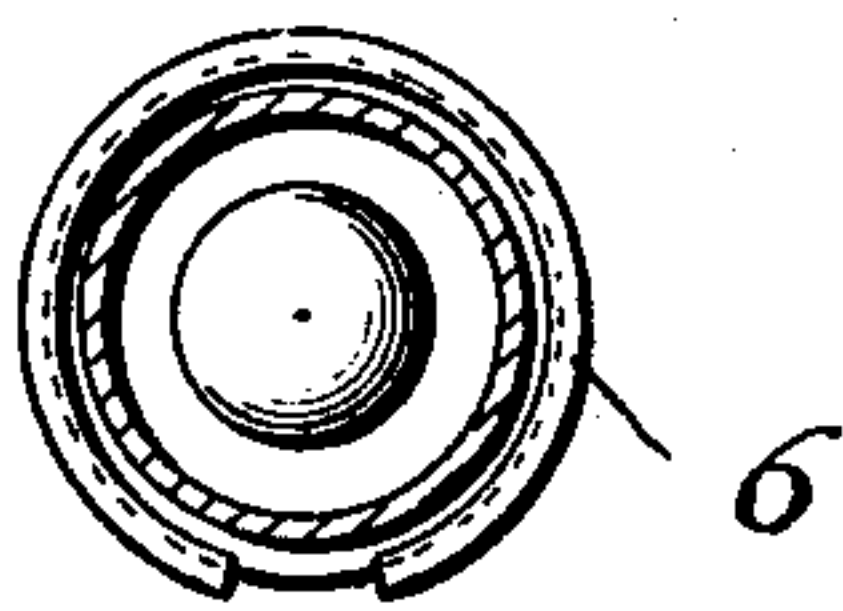
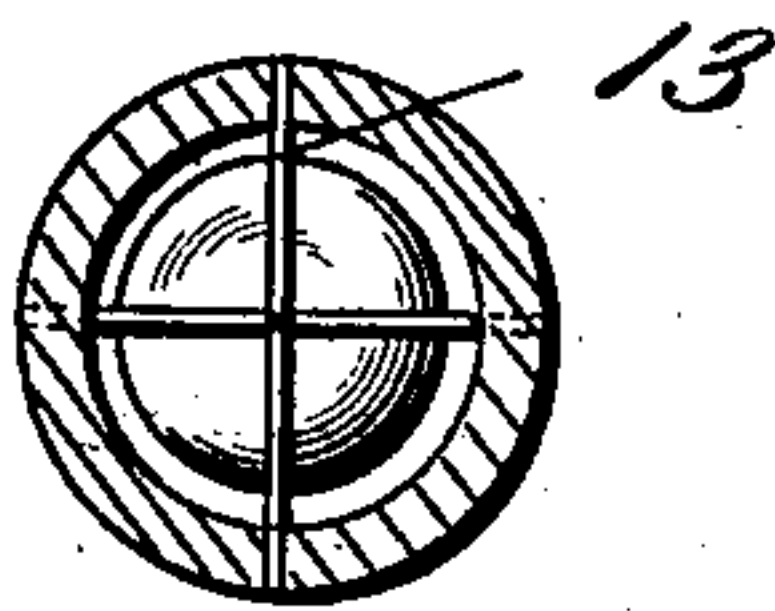


Fig. 3.



Witnesses

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ROBERT B. BAILEY, OF HAMMETT, ARKANSAS.

BOTTLE-VALVE.

SPECIFICATION forming part of Letters Patent No. 772,269, dated October 11, 1904.

Application filed March 1, 1904. Serial No. 196,060. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. BAILEY, a citizen of the United States, residing at Hammett, in the county of Clay and State of Arkansas, have invented new and useful Improvements in Bottle-Valves, of which the following is a specification.

My invention relates to bottles; and its primary object is to provide a new and improved valve which is adapted to effectually prevent the surreptitious filling of the bottle after its original contents have been withdrawn, thereby obviating all liability of a counterfeit article being disposed as the original.

A still further object of the invention is to provide a valve which may be readily applied to a bottle of any description without materially altering the construction of the bottle and which after being inserted in applied position cannot be removed without destroying the bottle.

A still further object of the invention is to provide a valve which is cheap of construction, durable and efficient, and composed of few parts so arranged as not to be liable to become inoperative.

The invention consists in the construction, combination, and arrangement of parts hereinafter fully described, claimed, and illustrated in the accompanying drawings, which disclose the preferred form of my invention, and in which—

Figure 1 is a central vertical section through a bottle-neck equipped with a valve constructed in accordance with my invention. Fig. 2 is a transverse section on line 2 2 of Fig. 1, and Fig. 3 is a similar view on line 3 3 of Fig. 1.

Referring to the drawings by reference-numerals, 1 designates the upper portion of a bottle, from which projects a neck 2, said neck having a recess extending clear around the inner face thereof, as indicated by 3 in the drawings.

A casing 4 is adapted to be mounted within the neck of the bottle and is designed to contain two valves, one situated above the other. The upper valve is buoyant to prevent the refilling of the bottle while partially or fully inverted, as the said valve will readily and

quickly float into its seat, and thereby cut off the entrance to the bottle. The lower valve being made of metal will gravitate to its seat while the bottle is partially inclined or is standing right side up, and thereby cut off the entrance to the bottle and defeat any attempt to refill the bottle while in an inclined or upright position. The casing 4 may be constructed from any suitable non-corrosive material and is of a width sufficient to snugly fit within the neck of the bottle. The casing is provided with a recess 5, adapted to receive a spring locking member 6, so constructed that it may be readily drawn within the recess 5 to permit of the insertion of the casing within the neck and to quickly expand when the recess 5 is alined with the recess 3, so that a portion of said locking member is adapted to lie within the recesses 3 and 5 to effectually lock the casing from removal after it has once been inserted in applied position without destroying the neck of the bottle. The casing has its upper end closed and projecting beyond the upper edge of the bottle-neck. The sides of said projecting portion are provided with ports 7, through which the contents of the bottle may be readily decanted. Said extension is also provided with screw-threads adapted to be engaged by the threaded portion of a cap 8, whereby said ports may be closed to preserve the contents of the bottle. The casing is also provided with a flange 9, adapted to rest upon the upper edge of the bottle-neck, and interposed between the bottle-neck and the casing directly beneath said flange is a packing 10, of any suitable material, to make the bottle air-tight at this point. The lower end of the casing is provided with a valve-seat 11, adapted to receive a gravitating valve 12, which is constructed from any heavy non-corrosive material. A guard 13 is secured above said valve 12 to limit its movement to obviate all liability of its becoming inoperative, and said guard comprises wires having their extremities embedded in the casing and crossing each other at a point about their transverse centers. A casing at a point above the valve-seat 11 is provided with another valve-seat 14, adapted to receive a buoyant valve 15, which may be constructed

from wood or any other non-corrosive material. A guard 16 is situated above the valve 15 and is similar in construction to the guard 13. The casing comprises two separable members having a screw-threaded connection, as indicated at 17 in the drawings. The sections are made separable in order to permit of the application of the valve-seat 14 and the valves 12 and 15, said valve-plate 14 being adapted to be clamped between the two sections, as is clearly illustrated in Fig. 1 of the drawings.

It is apparent from the above description, taken in connection with the accompanying drawings, that I provide a device which will effectually prevent the refilling of the bottle after its original contents have been withdrawn, that the same may be readily and quickly inserted in applied position within the neck of the bottle after the bottle has been filled, and that by the application of the cap 8 and the packing 10 the contents of the bottle are protected from the atmosphere.

It is presumed that the operation of the device is apparent from the foregoing description and accompanying drawings. Therefore a further extended description of its operation is deemed unnecessary.

Having described my invention, what I claim is—

1. The combination with a bottle, of a casing situated within the neck of said bottle and comprising separable sections, the lower end of said casing being provided with a valve-seat, a gravitating valve adapted to normally occupy said seat, a valve-seat comprising a plate clamped between said sections and situated above the first-named valve-seat, a buoyant valve adapted to normally occupy the last-mentioned valve-seat, and guards situated above said valves and comprising wires having their ends embedded within the casing and

crossing each other at points adjacent their transverse centers.

2. The combination with a bottle, of a valve-casing situated within the neck of said bottle and having its upper end closed and projecting above said bottle-neck, the upper end of said casing having ports located within its sides, a cap adapted to be removably secured to the upper end of the casing to close said ports, a flange secured to the casing and adapted to engage the upper edge of the bottle-neck, a packing secured between the bottle-neck and the casing directly under the flange, and valves mounted within said casing.

3. The combination with a bottle, of a casing located within the neck thereof and having its upper end closed and projecting above said bottle-neck, said casing comprising separable sections, ports located within the sides of the upper portion of the casing, a cap adapted to normally close said port, flanges secured to the casing and to engage the upper edge of the bottle-neck, a packing interposed between the bottle-neck and casing, a valve-seat located within the lower end of said casing, a gravitating valve normally occupying said seat, a valve-seat comprising a plate clamped between the two sections and situated above the first-named valve-seat, a buoyant valve adapted to normally occupy the last-named valve-seat, guards secured above said valves and comprising wires having their ends embedded in the casing and crossing each other at points adjacent their transverse centers, and means for securing the casing within the neck of the bottle.

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

ROBERT B. BAILEY.

Witnesses:

W. E. LYNCH,
MAE PARKS.