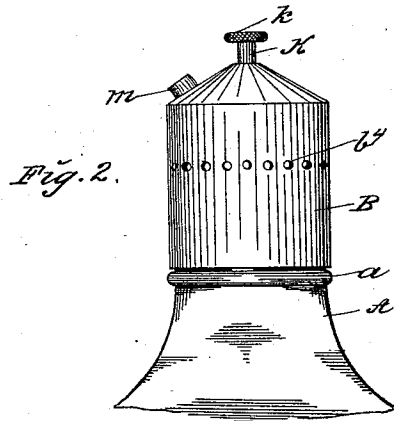
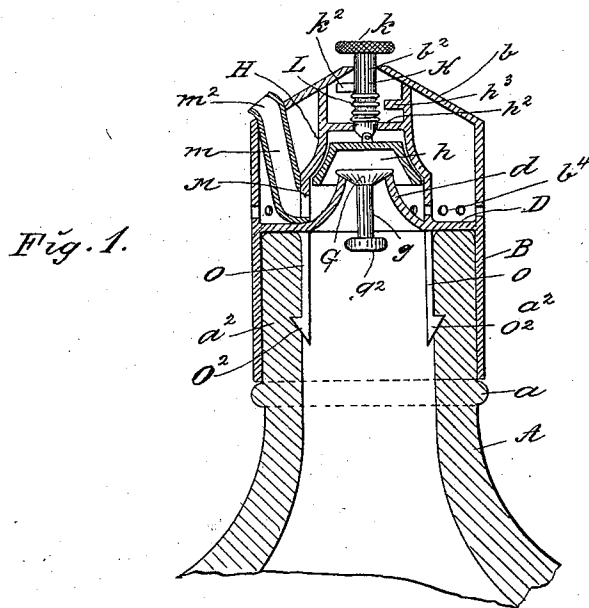


(No Model.)

A. W. MORITZ.
BOTTLE.

No. 579,651.

Patented Mar. 30, 1897.



WITNESSES:

C. Voordijk
C. Gerst.

Adolph W. Moritz. INVENTOR.
BY Edgar Tates Co. ATTORNEY S.

UNITED STATES PATENT OFFICE.

ADOLPH W. MORITZ, OF SOUTHFIELD, NEW YORK.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 579,651, dated March 30, 1897.

Application filed April 25, 1896. Serial No. 589,134. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH W. MORITZ, a citizen of the United States, and a resident of the town of Southfield, in the county of Richmond and State of New York, have invented certain new and useful Improvements in Bottles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which
15 similar letters of reference indicate corresponding parts.

This invention relates to bottles, jugs, jars, and similar vessels; and the object thereof is to provide a vessel of this class with a neck
20 attachment whereby when the vessel has once been filled and the attachment applied the vessel may be emptied of its contents, but cannot be refilled or reused.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a central vertical section of the upper part of a bottle or other vessel provided with my improved attachment, and Fig. 2 a
25 side view thereof.

In the practice of my invention I provide a bottle or vessel having a neck A, which is preferably provided with an annular shoulder or projection a , and the inner walls of
30 which are provided above said annular shoulder or projection with notches or recesses a^2 , or the annular groove may be substituted for said notches or recesses, if desired. I also provide a cap or cover which consists of a tubular casing B, the lower end of which is
35 adapted to inclose the upper end of the neck and to rest on the annular shoulder a , and the upper end of which is conical in form, as shown at b , and provided with a central opening b^2 at the top thereof.

Secured within the cap or cover B or the body portion thereof is a partition-plate D, the central portion of which is curved upwardly, so as to form a conical upwardly-directed extension d , the upper end of which
45 is open and provided with a valve G, which is provided with a depending rod g , the lower end of which is provided with a weight g^2 .

The upper side of the valve G is preferably
50 flat and the lower side thereof conical in form, and secured within the cap or cover and centrally of the upper part thereof is a tube H,

the lower end of which is larger than the upper end, and said lower end is secured to the partition-plate D, and mounted therein above
55 the valve G is a cap h , which is hollow and slightly conical in form and the base of which is directed downwardly, and the tube H is provided with a partition-plate h^2 , in which is formed a central opening through which
60 passes a bolt K, provided with a button or head k and on which is mounted a spring L, the lower end of which bears on the partition-plate h^2 and the upper end of which bears
65 on a shoulder or projection k^2 , formed on the bolt K, and on one side of the tube H is an inwardly-directed shoulder or projection h^3 .

The cap or cover B or the body portion thereof is provided with a number of perforations or openings b^4 , which are formed
70 therein above the partition-plate D, and at one side of the bottom of the tube H is an opening M, with which a tube m communicates, which passes upwardly and outwardly through the conical portion of the cap or cover,
75 as shown at m^2 .

Secured to the lower side of the plate or partition D are depending spring-arms O, the lower ends of which are provided with outwardly-directed projections or heads O^2 ,
80 which are adapted to operate in connection with the notches or recesses a^2 , so as to securely connect the attachment with the neck of the vessel, and the bolt K is adapted to be depressed, so that the cap h will rest on the
85 valve G, in which position the bolt K may be turned so that the shoulder or projection k^2 will rest beneath the shoulder or projection h^3 on the tube H and hold the bolt in the depressed position, and the bottle will be sealed
90 by the pressure of the cap h on the valve G.

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.
95

In this class of devices the bottle or vessel must first be filled before the neck attachment is applied, and the bottle or vessel provided with the neck A having been filled with the desired contents the neck attachment is se-
100 cured thereto, as will be readily understood, by forcing the lower end of the body portion B downwardly over the upper end of the neck, in which operation the spring-arms O

pass inside of the neck and the heads or projections O^3 enter the notches or recesses a^2 and securely hold the attachment in place and prevent the removal thereof. The outer end of the tube m may be closed by a cork or plug, if necessary, and when it is desired to empty the bottle or vessel or discharge a portion of its contents said plug or stopper is removed and the bolt K is turned so as to release the shoulder or projection h^3 , after which the cap h will be raised by the spring L , and when the bottle or vessel is inverted or tilted the contents thereof will flow out around the valve, which will leave its seat under the action of gravity and the pressure of liquids within the bottle or vessel, and the latter will flow out into the lower end of the tube H and through the tube m , as will be readily understood, and this operation may be continued or repeated until the bottle or vessel is entirely empty.

If an attempt be made to refill the bottle or vessel by pouring liquids therein, the valve G will at once be resealed and no liquids can enter the bottle, and said liquids will also flow out through the side ports or openings b^4 in the cap or cover. The depending rod g and the weight g^2 serve to assist in this operation of the valve, and said operation of the valve will be the same in any position in which the bottle or vessel may be held in an attempt to pour liquids therein, and said valve may also be made to act as a float-valve, in which event no liquids could be forced into the bottle, and if an attempt be made to force liquids into the bottle the same would pass out through the lower end of the tube H and the side ports or openings b^4 , it being observed that the lower end of the tube H is also perforated, so as to correspond with the side ports or openings b^4 .

This device is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, while being also comparatively inexpensive.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with a bottle or other vessel provided with a neck, of a cap or cover comprising a tubular body portion, and a top, said body portion being provided with a partition-plate at or near the middle thereof, the central portion of which is directed upwardly to form a conical extension which is open at the top, a valve adapted to be seated on said conical extension and having a depending rod secured thereto, a weight mounted on the lower end of said rod, and said valve adapted to close the port or opening through said extension, said cover being provided with side ports or openings above said partition-plate, and means for holding the valve in place, substantially as shown and described.

2. The combination with a bottle or other vessel provided with a neck, of a cap or cover comprising a tubular body portion, and a top,

said body portion being provided with a partition-plate at or near the middle thereof, the central portion of which is directed upwardly to form a conical extension which is open at the top, a valve adapted to be seated on said conical extension, and to close the port or opening therethrough, said cover being provided with side ports or openings above said partition-plate, and means for holding the valve in place, consisting of a vertically-movable cap which is mounted in the lower end of a central tube which is secured within the cap or cover, and the lower end of which rests upon said partition-plate, and means for operating said vertically-movable cap, substantially as shown and described.

3. The combination with a bottle or other vessel provided with a neck, of a cap or cover comprising a tubular body portion, and a top, said body portion being provided with a partition-plate at or near the middle thereof, the central portion of which is directed upwardly to form a conical extension which is open at the top, a valve adapted to be seated on said conical extension, and to close the port or opening therethrough, said cover being provided with side ports or openings above said partition-plate, and means for holding the valve in place, consisting of a vertically-movable cap which is mounted in the lower end of a central tube which is secured within the cap or cover, and the lower end of which rests upon said partition-plate, and means for operating said vertically-movable cap, consisting of a rod which passes through the top of the cap or cover, and which is connected therewith, substantially as shown and described.

4. The combination with a bottle or other vessel provided with a neck, of a cap or cover comprising a tubular body portion, and a top, said body portion being provided with a partition-plate at or near the middle thereof, the central portion of which is directed upwardly to form a conical extension which is open at the top, a valve adapted to be seated on said conical extension, and to close the port or opening therethrough, said cover being provided with side ports or openings above said partition-plate, and means for holding the valve in place, consisting of a vertically-movable cap which is mounted in the lower end of a central tube which is secured within said cap or cover, and the lower end of which rests upon said partition-plate, and means for operating said vertically-movable cap, consisting of a rod which passes through the top of the cap or cover, and which is connected therewith, and a tube which communicates with the lower end of the central tube, and the end of which extends upwardly and outwardly through the top of the cap or cover, substantially as shown and described.

5. An attachment for the neck of the bottle or other vessel, consisting of a cap or cover, the body portion of which is tubular in form, and provided with a top, said body portion being provided with a partition-plate at or

near the middle thereof, the central portion
of which is upwardly curved to form a conical
extension the upper end of which is open, a
valve adapted to close the passage through
5 said conical extension, and provided with a
depending weighted rod, a central tube placed
within the cap or cover, and secured to the
upperside of said partition-plate, a vertically-
movable cap placed therein over the valve,
10 and means for operating the same, said cen-
tral tube being larger at the base than at the
upper end, and provided with a tube, which
communicates with the lower end thereof, and

which passes outwardly through the cap or
cover, and said central tube and the body por- 15
tion of the cap or cover being also perforated,
substantially as shown and described.

In testimony that I claim the foregoing as
my invention I have signed my name, in pres-
ence of the subscribing witnesses, this 3d day 20
of April, 1896.

ADOLPH W. MORITZ.

Witnesses:

C. GERST,

C. G. MILLEN.