

No. 740,285.

PATENTED SEPT. 29, 1903.

H. KOORIE.
NON-REFILLABLE BOTTLE.
APPLICATION FILED JAN. 27, 1903.

NO MODEL.

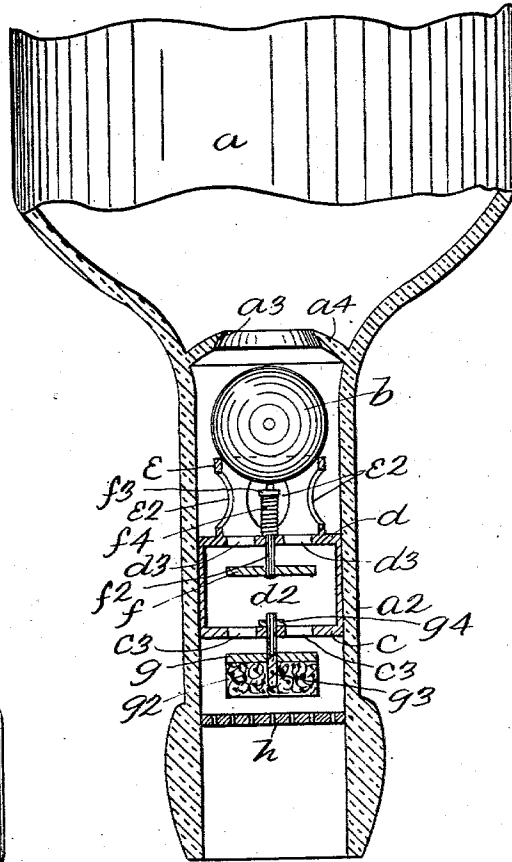
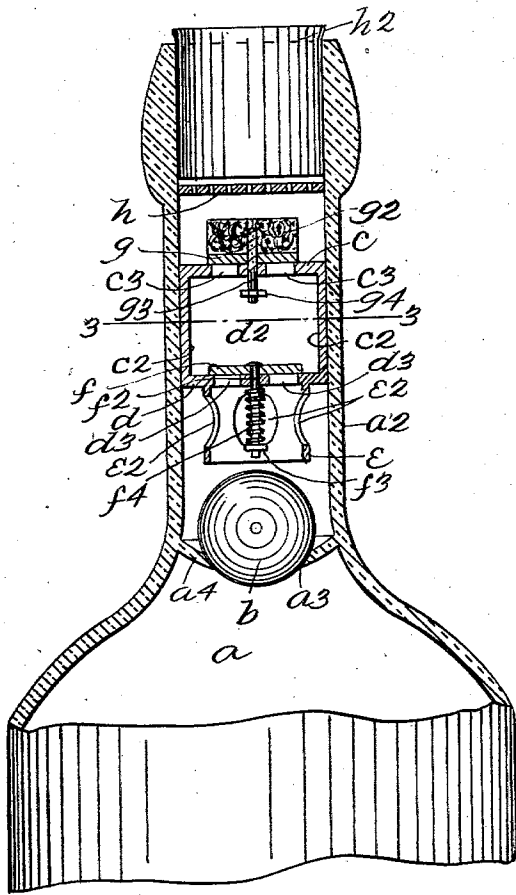
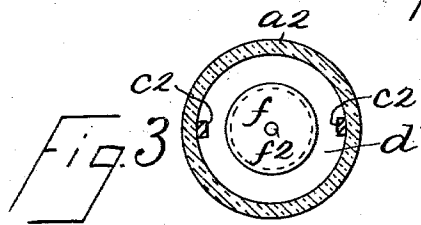


Fig. 1.

Fig. 2.



WITNESSES

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HANNA KOORIE, OF PATERSON, NEW JERSEY.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 740,285, dated September 29, 1903.

Application filed January 27, 1903. Serial No. 140,750. (No model.)

To all whom it may concern:

Be it known that I, HANNA KOORIE, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide a bottle, jug, jar, or similar vessel with a neck attachment whereby when the vessel has been once filled and the neck attachment applied the said 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 the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a central vertical section of the upper part of a bottle and the neck thereof provided with my improvement; Fig. 2, a similar view showing the parts inverted, and Fig. 3 a section on the line 3 3 of Fig. 1.

In the drawings forming part of this specification I have shown at *a* a part of a bottle which is provided with the usual neck *a*², and at the bottom of said neck is a port or passage *a*³, formed by an annular member *a*⁴, which may be formed integrally with said neck, as shown, or be secured therein in any desired manner. Placed within the neck *a*² and adapted to close the port or passage *a*³ when the bottle is in an upright position is a spherical valve *b*, and secured in said neck are two plates *c* and *d*, these plates being preferably connected by side members *c*², so as to form one single instrumentality, which may be tubular in form, if desired, and within which or between the plates *c* and *d* is a space *d*².

Connected with the bottom plate *b* is a tubular casing *e*, having side ports or passages *e*² and open at the lower end, and the plate *d* is provided within said casing with ports or passages *d*³, two of which are shown, and placed on said plate is a valve *f*, which is adapted to close said ports or passages and which is provided with a pin *f*², which passes downwardly and loosely through the center of the plate *d*

and on the lower end of which is a collar *f*³, between which and the plate *d* is placed a spiral spring *f*⁴, the object of which is to hold the valve *f* normally in the position shown in Fig. 1, in which position it closes the ports or passages *d*³. The plate *c* is also provided with ports or passages *c*³, and placed on said plate is a valve *g*, over which is placed a cork *g*², and the cork *g*² is provided with a pin *g*³, which passes downwardly and loosely through the plate *g* and is provided at its lower end with a collar *g*⁴, and in the normal position of the parts the valve *g* closes the ports or passages *c*³.

Within the neck *a*² of the bottle and at any suitable point above the plates *c* is a perforated baffle-plate *h*, which is intended to protect the parts beneath from outside interference, and a number of these plates may be employed, if desired, and the top of the neck *a*² is adapted to be closed by an ordinary cork or stopper *h*² in the usual manner.

The plates *c* and *d*, or the tubular framework or device of which said plates form a part, may be secured in the neck of the bottle in any desired manner, and in practice the bottle is first filled with the desired contents, the valve *b* is dropped into the neck *a*², and the parts *c* and *d*, with the other parts connected therewith, are then secured in the neck of the bottle, after which plate *h* is passed into the neck of the bottle and secured therein, and said neck is then closed by the cork *h*² in the usual manner. Whenever it is desired to empty the bottle or to discharge a portion of its contents, the cork *h*² is removed and the bottle is inverted or tilted. In this operation the valve *g* leaves its seat, as shown in Fig. 2, the valve *b* drops onto the end of the pin *f*² and forces the valve *f* from its seat, as is also shown in Fig. 2, and the contents of the bottle will flow out through the port or passage *a*³ and through the ports or passages *e*², *d*³, and *c*³, and through the perforated plate *h*, and this operation may be continued or repeated until the bottle is entirely emptied. If an attempt be made to refill the bottle by pouring liquids thereinto, the parts or valves will at once resume the position shown in Fig. 1, and this will be the result no matter in what position the bottle be held in an attempt to pour liquids there-

into, and no liquids can enter said bottle, and if an attempt be made to force liquids into the bottle the cork g^2 and valve g will operate as a float, and said valve will close the 5 ports or passages c^3 , and no liquids can be forced into the bottle.

My attachment for bottles and similar vessels is similar in construction and comparatively inexpensive and also well adapted to 10 accomplish the result for which it is intended, and although I have shown the same applied only to a bottle it will be apparent that the same may be applied to other vessels having a neck.

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

1. A bottle or similar vessel provided with a neck at the bottom of which is a port or pas- 20 sage, a ball-valve placed in said neck and adapted to close said passage; two transverse plates or members secured in said neck above said port or passage and at a predetermined distance from each other, the bottom plate or 25 member being provided with ports or passages and with a downwardly-directed tubular member open at the bottom and provided with side ports or passages, a valve placed on said plate or member and adapted to close 30 the ports or passages therein and provided with a pin which passes downwardly through said plate or member and on which is placed a spring, the upper plate or member being also provided with ports or passages, a valve 35 placed thereon and adapted to close said ports

or passages, a cork connected with said valve by a pin which passes therethrough and loosely through said plate or member and the end of which is provided with a collar, and a guard placed in said neck above said 40 last-named port or passage, substantially as shown and described.

2. A bottle or similar vessel provided with a neck having a port or passage at the bottom thereof, a ball-valve placed in said neck for 45 closing said port or passage, a frame member secured in said neck and provided with top and bottom plates both of which are provided with ports or passages, a tubular casing member secured to the bottom plate and provided 50 with side ports or passages and open at its lower end, a valve placed on said plate and provided with a pin which passes downwardly and centrally therethrough, a spring connect- 55 ed with said pin below said plate, another valve placed on the top plate and adapted to close the ports or passages therethrough, said valve being adapted to serve as a float and being provided with a pin which passes loosely through said plate, and the lower end 60 of which is provided with a collar, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 26th 65 day of January, 1903.

Witnesses:
HANNA KOORIE.
J. C. LARSEN,
F. A. STEWART.