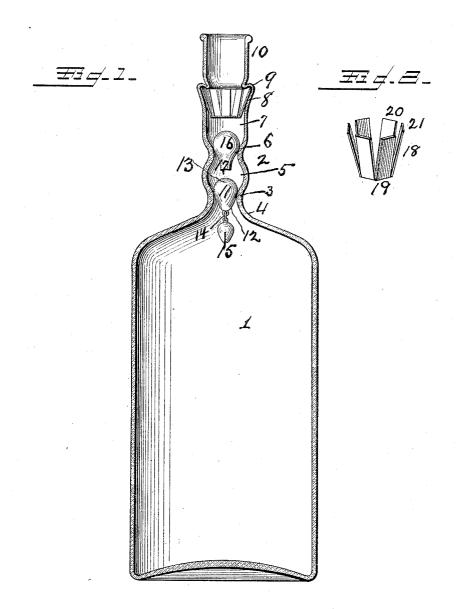
G. W. CASTLEN.

NON-REFILLABLE BOTTLE,

APPLICATION FILED JUNE 3, 1909. RENEWED MAY 10, 1912.

1,044,743.

Patented Nov. 19, 1912.



Sevrge W. Castler.

Say Joseph L. atkins.

Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. CASTLEN, OF ST. LOUIS, MISSOURI.

NON-REFILLABLE BOTTLE.

1,044,743.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed June 3, 1909, Serial No. 499,940. Renewed May 10, 1912. Serial No. 696,504.

To all whom it may concern:

Be it known that I, George W. Castlen, of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Non-Refillable Bottles, of which

the following is a specification.

This invention relates to an improvement in a non-refillable bottle, the object being to produce a bottle which, after it has once 10 been emptied of its contents, may not be refilled, and the invention produces a bottle which cannot be refilled without its being broken as there is an absolute seal against normally refilling the bottle.

In the drawings: Figure 1 represents a longitudinal section of a bottle provided with the invention. Fig. 2 represents a perspective view of the elastic lock.

In these drawings, the numeral 1 repre-20 sents any ordinary bottle to which the invention is to be applied. The neck 2 of the bottle is made with a constricted portion or choke 3 just above the collar 4 of the bottle. In the neck 2, above the constricted portion 25 or choke 3, there is an enlargement 5, and above the enlargement 5 another constricted portion or choke 6, and above this constricted portion or choke 6, the walls of the neck are thin so as to make an interior 30 enlargement 7. Above the enlargement 7 the neck of the bottle may be provided with a swell 8 terminating in a circular shoulder 9, or the neck may be run up straight without the swell 8 but having the shoulder 9. 35 Above the shoulder 9 the neck projects, having an upper portion 10 for the reception of an ordinary cork.

Within the neck of the bottle, resting upon the constricted portion or choke 3, 40 there is the stopper 11 made elongated or pear-shaped, that is, with its lower end 12 smaller than its upper end 13. To the lower end 12 of the stopper 11 there is secured by a chain 14 a weight 15. This weight may be of any substance and, if desired, may be covered with glass so that the contents of the bottle cannot be affected. In the neck of the bottle, above the stopper 11, there is placed a second stopper 16 somewhat similar in shape to the stopper 11 except that the diminished lower end 17 may be made flat, as shown, and not pointed.

Above the enlargement 7 and within the swell 8, there is placed a spring-lock 18.

This spring-lock 18 consists of a center 19

and elastic arms 20 projecting from the center 19.

After the contents of the bottle have been placed therein, the stopper 11 is dropped into place, the weight 15 reaching down into 60 the bottle and its contents and the stopper 11 resting on the constricted portion or choke 3. The stopper 16 is then dropped into place, resting on the constricted portion or choke 6. The spring-lock 18 is then 65 forced down through the portion 10 of the bottle until the upper ends 21 of the elastic arms 20 spring outward and catch under the shoulder 9. The bottle may then be corked.

It will be seen that in a structure like this 70 it will be impossible to refill the bottle. When the contents are poured out, the stopper 11 will fall into the enlargement 5 and the stopper 16 into the enlargement 7. The stopper 16 will prevent the stopper 11 75 from falling down so far into the neck as to withdraw the weight 15 wholly from the body of the bottle. Hence, the slightest lowering movement of the body of the bottle would cause the weight 15 to draw the 80 stopper 11 down against the constricted portion or choke 3, so that even any attempt to partially fill the bottle, that is after a portion of the contents have been removed and any attempt should be made to add to the 85 remaining contents a fluid of an inferior kind, is completely frustrated, because any attempt to tilt the bottle with a portion of its contents in it and then pour additional fluid therein is prevented by the valve 11 90 being drawn into place by the weight 15 upon the slightest downward movement of the body of the bottle.

Having described my invention, what I claim is:

1. A bottle having a neck provided with a constricted portion or choke just above the collar of the bottle, an enlargement above the choke, another constricted portion or choke above this enlargement, an enlargement above this second choke, and the neck also provided with a shoulder above this second enlargement in combination with a stopper adapted to fit in the lower enlargement of the neck, a weight attached to the lower end 105 of such stopper and extending into the bottle, a second stopper above the first stopper and adapted to fit the first stopper and adapted to fit the upper enlargement of the neck, and a lock above the second stopper 116

and having elastic arms adapted to catch |

under the shoulder.

2. A bottle having a neck provided with a constricted portion or choke just above the 5 collar of the bottle, an enlargement above the choke, another constricted portion or cheke above this enlargement, an enlargement above this second choke, and the neck also provided with a shoulder above this 10 second enlargement in combination with an elongated or pear-shaped stopper adapted to fit in the lower enlargement of the neck, a weight attached to the lower end of such stepper and extending into the bottle, a sec-15 ond stopper above the first stopper and adapted to fit the first stopper and adapted to fit the upper enlargement of the neck, and a lock above the second stopper and having elastic arms adapted to catch under 20 the shoulder.

3. A bottle having a neck provided with a constricted portion or choke just above the collar of the bottle, an enlargement above the choke, another constricted portion or

choke above this enlargement, an enlarge- 25 ment above this second choke, and the neck also provided with a shoulder above this second enlargement in combination with an elongated or pear-shaped stopper adapted to fit in the lower enlargement of the neck, a 30 weight attached to the lower end of such stopper and extending into the bottle, a secend stopper above the first stopper, such second stopper similar in shape to the first stopper, except that the diminished lower 35 end of the second stopper is made flat, and adapted to fit the first stopper and adapted to fit the upper enlargement of the neck, and a lock above the second stopper and having elastic arms adapted to catch under the 40 shoulder.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GEORGE W. CASTLEN.

Witnesses:

E. J. Corcoran,

F. J. OLIVER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."