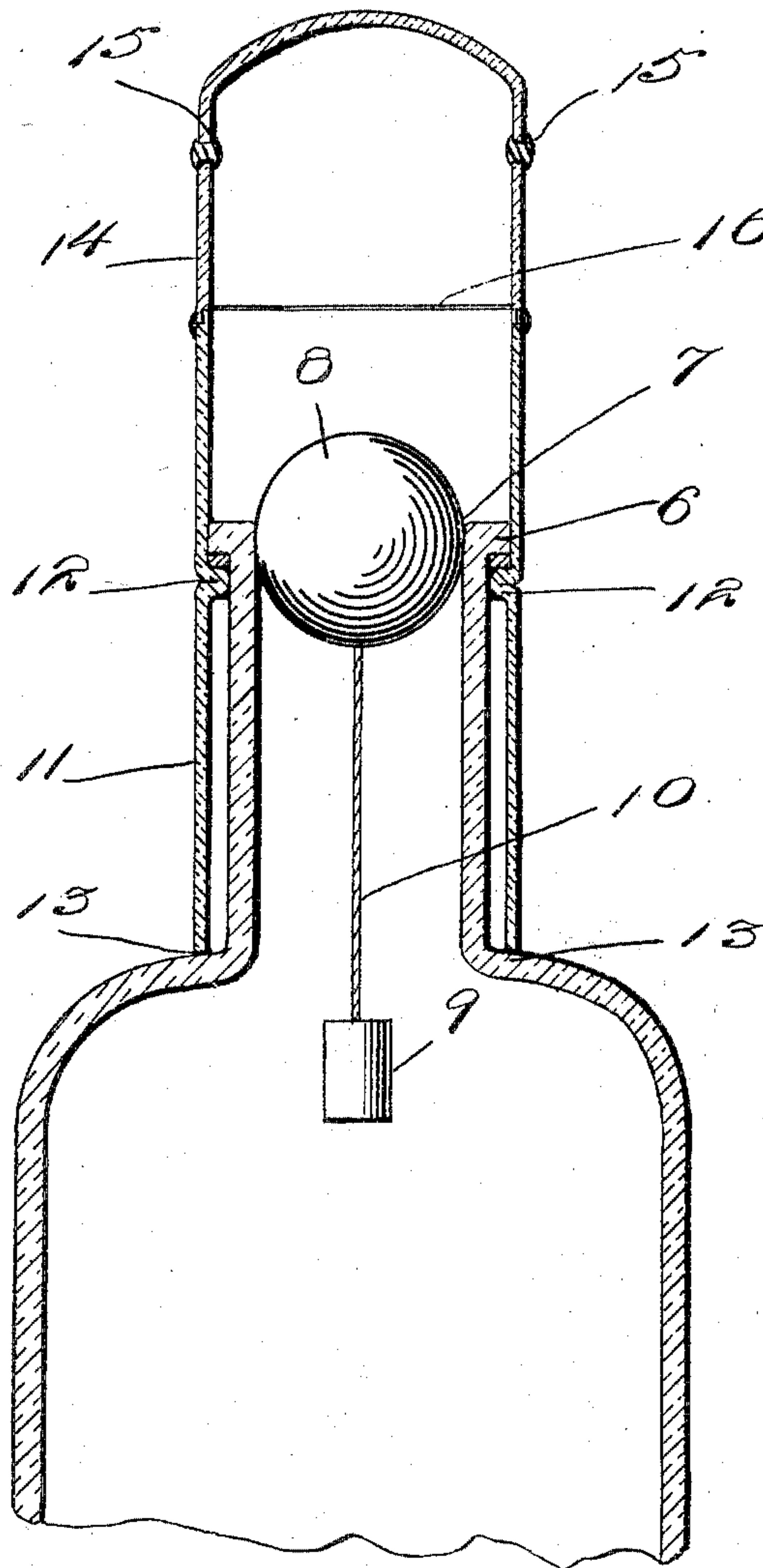


No. 780,000.

PATENTED JAN. 10, 1905.

H. P. HALL.
NON-REFILLABLE BOTTLE.
APPLICATION FILED JUNE 20, 1904.



Witnesses
J. S. Simpson.
W. C. Keyes.

Inventor
Harry P. Hall
By
Charles C. Chandler
Attorneys

UNITED STATES PATENT OFFICE.

HARRY P. HALL, OF WARTRACE, TENNESSEE.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 780,000, dated January 10, 1905.

Application filed June 20, 1904. Serial No. 213,378.

To all whom it may concern:

Be it known that I, HARRY P. HALL, a citizen of the United States, residing at Wartrace, in the county of Bedford, State of Tennessee, have invented certain new and useful Improvements in Non-Refillable Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to non-refillable bottles, the object of the invention being to provide a cheap and efficient construction which will permit of emptying the bottle, but will prevent refilling.

In the drawing forming a portion of this specification there is shown a portion of a bottle embodying the present invention, parts being in section and parts in elevation.

Referring now to the drawing, there is shown a portion of the bottle comprising a neck, at the outer end of which is a circumscribing flange 6, the mouth of the bottle being in the form of a valve-seat 7 to receive an outwardly-opening ball-valve 8. When the bottle is in erect position, the ball is in the seat, and to insure proper seating of the valve a weight 9 is provided and is connected to the ball 8 by means of a soft wire or cable 10, which is flexible and is of such length that when the valve is in its seat the weight will hang within the body of the bottle.

Over the neck of the bottle is passed a tube 11, having latches 12, which engage beneath the flange 6 and prevent withdrawal of the tube from the neck of the bottle, the opposite end of the tube being disposed to rest against the shoulders 13 of the bottle-body.

Disposed upon the outer end of the tube 11, which projects beyond the ball-valve when the latter is in its seat, is a cap 14, having perforations 15 through its wall adjacent to its outer end and having secured diametrically of its inner end a rod 16, which prevents the ball-

valve from passing entirely out of the inclosure of the valve-seat. The cap is secured to the tube 11 by soldering, and the perforations 15 are normally closed with wax. When the bottle is to be emptied, the perforations have the wax removed therefrom, and the bottle is then tilted in the usual manner, at which time the valve moves from its seat and the liquid passes out through the perforation.

What is claimed is—

1. The combination with a bottle including a neck having a valve-seat in its mouth, of a valve disposed in the seat and adapted to open outwardly of the bottle, a weight disposed within the body of the bottle, a flexible connection between the weight and the valve, a cover upon the outer end of the neck inclosing the valve, said cover having outlet-openings therethrough, and a stop carried by the cover and disposed to prevent movement of the valve entirely from the inclosure of the seat.

2. The combination with a bottle including a neck, having a valve-seat in its mouth, of a valve disposed in the seat and adapted to open outwardly of the bottle, a weight for holding the valve in its seat, a flexible connection between the weight and the valve, the bottle-neck having a circumscribing flange, a tube disposed upon the bottle-neck, retaining devices carried by the tube and engaged with the flange, a cap secured to the outer end of the tube and covering the valve at its seat, said cap having perforations in its wall, and a bar carried by the cap and disposed for contact by the valve to prevent movement of the latter from the inclosure of its seat.

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

HARRY P. HALL.

Witnesses:

JAS. S. JUSTICE,
R. F. LEAREY.