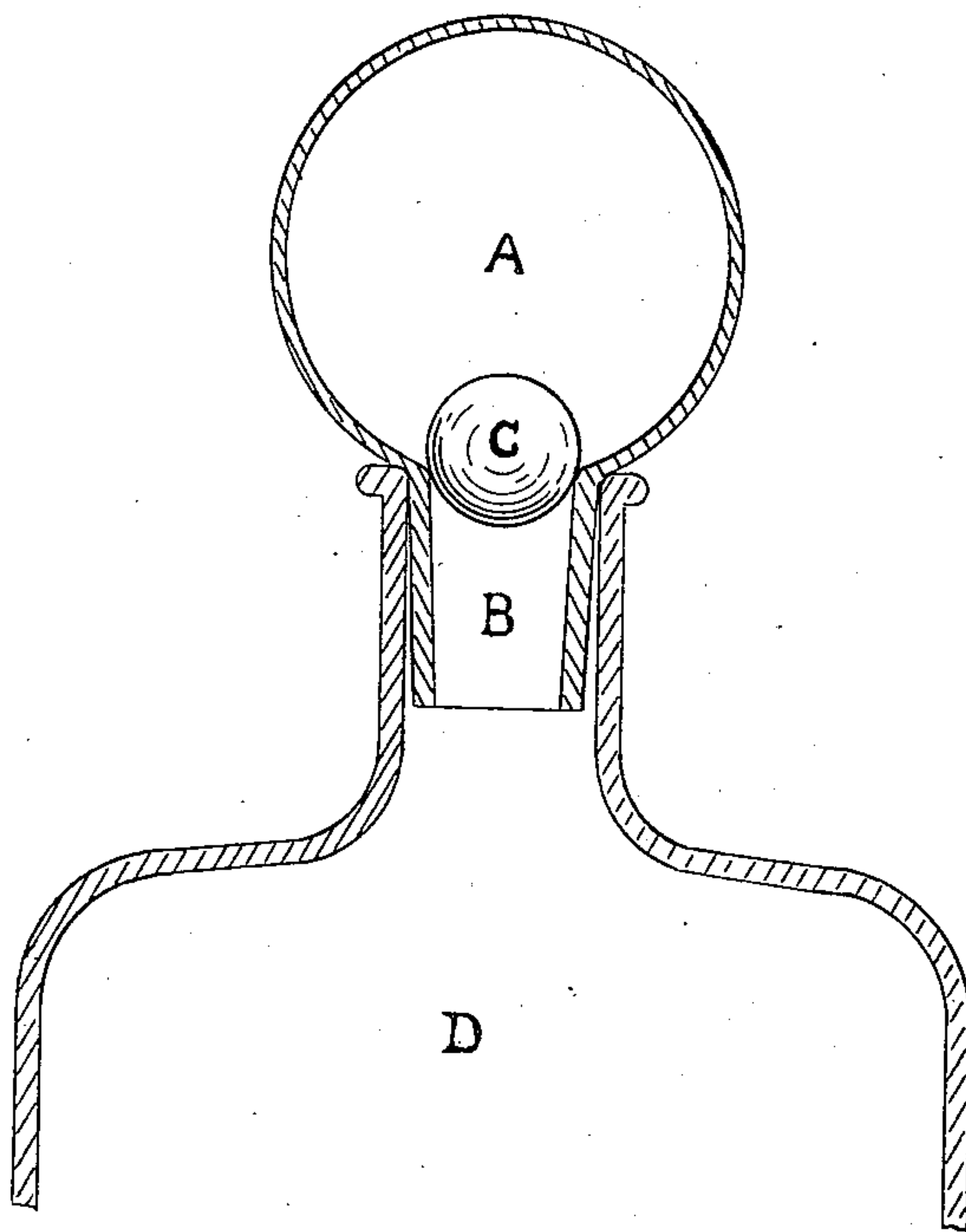


(No Model.)

B. B. LEWIS.  
BOTTLE STOPPER.

No. 329,574.

Patented Nov. 3, 1885.



*Witnesses*

*A. H. Beers*  
*W. C. Banks*

*Inventor*

*Benjamin B. Lewis*

# UNITED STATES PATENT OFFICE.

BENJAMIN B. LEWIS, OF WEST STRATFORD, CONNECTICUT.

## BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 329,574, dated November 3, 1885.

Application filed March 13, 1885. Serial No. 158,687. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN B. LEWIS, a citizen of the United States, and a resident of West Stratford, county of Fairfield, State of Connecticut, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

My invention relates to an improvement in "measuring-stoppers" for measuring medicines of a fluid nature and also other fluids, and belongs to that class of devices in which a bottle-stopper and fluid-measure are combined.

The object of my invention, like others of this class, is to afford a convenient and reliable means of measuring a given fluid in connection with the containing bottle itself and without recourse to a spoon or other outside help, and for this purpose I have invented a new and improved device.

This improved device, briefly stated, consists of a stopper formed of a tube open at the lower end, which projects into the bottle and forms the actual stopper for the same, and extending up terminates in a hollow bulb or reservoir, which forms the outside enlargement of the said stopper when inserted within a bottle, while a self-acting valve between the said reservoir and bottle operates to admit or retain the fluid from the bottle, according as the bottle is inverted or restored to its upright condition.

In the accompanying drawing, A represents the outside bulb or reservoir of the stopper. B, the tube, forms the actual stopper, its mouth opening into the bottle D, in the neck of which it is inserted; and C, the self-acting valve for opening and closing communication between the reservoir A and bottle D through the tube B.

The method of its operation may be described in the following manner: The lower or tubular end of the stopper having been inserted in the neck of the bottle, and said bottle having been inverted, the valve B falls back and opens the passage to the bulb or reservoir, filling the same. Then on restoring the bottle to its upright condition the valve falls back to its place, closing the passage to the

said reservoir and retaining its contents within. The stopper may now be removed from the bottle, and by turning the top down the valve be allowed to fall back, when with proper care the contents of the reservoir may be poured out or drank from the same, as may be desired.

As the stopper may be made with the outside part or reservoir and the lower part or actual stopper both of the same material and in one piece—as, for instance, a glass bulb and tube—or of different pieces and materials joined together—as, for instance, a glass bulb or reservoir and a rubber tube or actual stopper joined together—I therefore do not limit my claim to a particular material, or to a stopper made entirely of one material or in one piece.

As the self-acting valve used in this connection may be either flat or spherical, and may be either attached by a hinge or be a loose ball, I do not limit myself to any particular shape of the same, nor to its application to any particular part of the tube of the said stopper.

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

1. A bottle-stopper having, when inserted within a bottle, a hollow outside bulb or reservoir, A, communicating with the inside of the said bottle D through the tube B, forming the actual stopper, and having its interior separated from the inside of the said bottle D by the self-acting valve C, operating to admit or retain the fluid from the bottle by the inversion or restoration to an upright condition of the said bottle in the manner described.

2. In a bottle-stopper, the combination of the outside reservoir, A, the communicating-tube, and actual stopper B, and the self-acting valve C, for use as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 11th day of March, 1885.

BENJAMIN B. LEWIS.

Witnesses:

DWIGHT H. TERRY,  
GEO. W. KEELER.