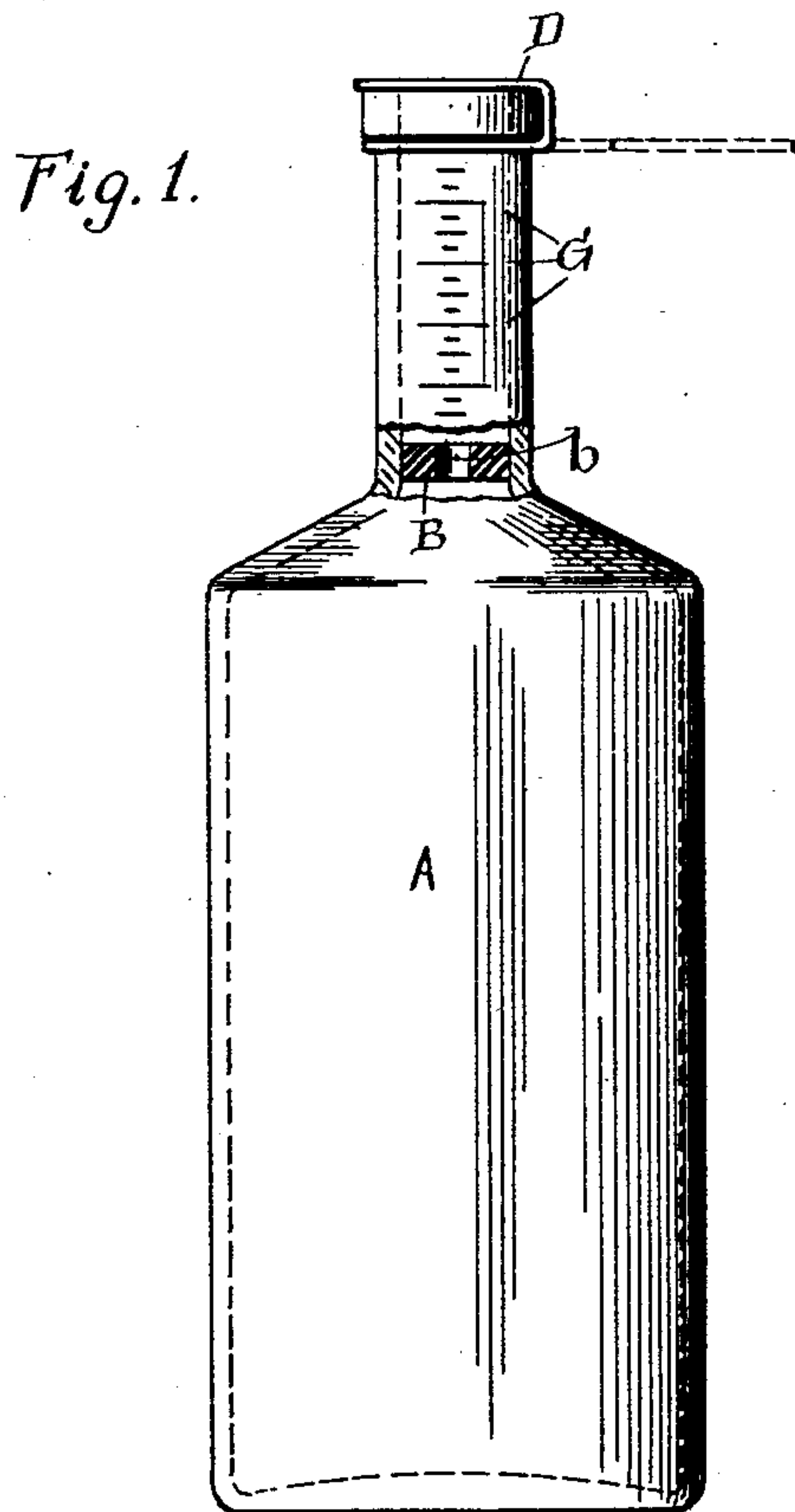


(No Model.)

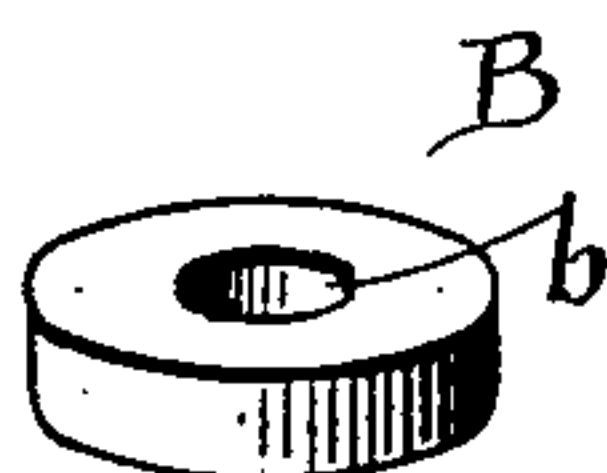
F. P. NOURSE.  
DEVICE FOR MEASURING LIQUIDS.

No. 587,597.

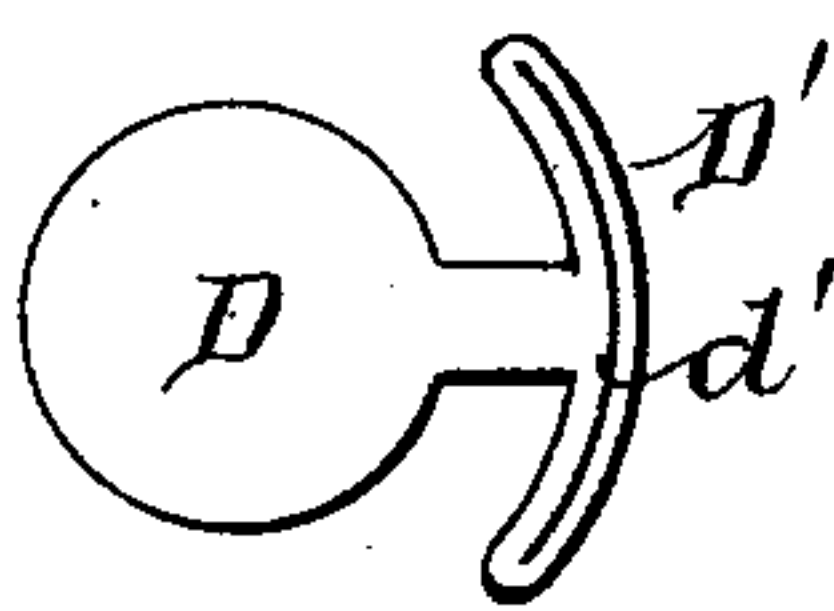
Patented Aug. 3, 1897.



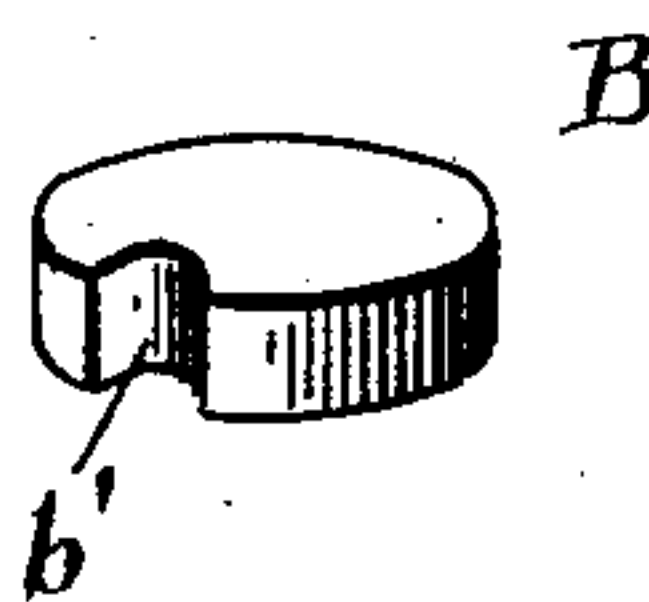
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses.

*G. M. Anderson*  
*P. H. Masi.*

Inventor.

*Frank P. Nourse*  
*by E. W. Anderson.*  
*his* Attorney.

# UNITED STATES PATENT OFFICE.

FRANK P. NOURSE, OF ALEXANDRIA, INDIANA.

## DEVICE FOR MEASURING LIQUIDS.

SPECIFICATION forming part of Letters Patent No. 587,597, dated August 3, 1897.

Application filed November 21, 1896. Serial No. 613,003. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK P. NOURSE, a citizen of the United States, and a resident of Alexandria, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Devices for Measuring Liquids; and I do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a view, partly in elevation and partly in section, of a bottle with my invention applied thereto. Fig. 2 is a detail perspective view of the plug or disk. Fig. 3 is a plan view of the cap, and Fig. 4 is a detail perspective view of a modified form of the plug or disk.

This invention is designed to provide a bottle or other necked vessel with means whereby the contents thereof may be measured into definite quantities or doses as discharged therefrom.

The invention consists in the combination, with the bottle or other vessel, of the novel means employed to secure this result, and in the novel construction thereof, all as herein-after described, and pointed out in the appended claim.

Referring to the accompanying drawings, the letter A designates a bottle or vial to which I have shown the invention applied. This bottle or vial is of the ordinary construction, except that the neck portion is preferably, though not necessarily, somewhat more elongated, and that care should be taken to have its interior surface as even and true as may be.

B designates a plug or disk which is seated within the neck portion of the bottle at such a distance from the orifice thereof that the space above the same will contain a definite predetermined quantity of liquid. Said plug has a perforation *b* therethrough, or, what is the equivalent, a peripheral notch *b'*, as shown in Fig. 4, and is of such diameter as to fit sufficiently tight to retain itself against displacement, while, if desired, by the aid of a suitable implement it may be moved up or down to vary the capacity of the measuring-chamber above it. If it is desired to make the plug adjustable in this manner, the neck

portion of the bottle may be provided with graduation-marks, as indicated at G.

Attached to the neck portion of the bottle is a cap device adapted to temporarily close the orifice thereof independently of the usual cork or stopper. This device is usually made from a piece of rubber, and consists of a thin narrow portion *D'*, having therein a longitudinal slit *d'*, a disk portion *D*, and a narrow connecting portion. The device is attached to the bottle by spreading or opening the said slit and slipping this portion thereof over and around the neck, as shown, it being held from slipping off by its elasticity and the usual external flange or bead on said neck. The narrow part which connects the portions *D* and *D'* is of sufficient length to permit the portion *D* to be turned up and over into position to close the orifice, as shown in Fig. 1.

In use the cap portion is closed and held tightly over the orifice and the bottle inverted, when the liquid flows through or by the plug or disk B, (the bottle being shaken if necessary,) entirely filling the measuring-chamber and forcing the air from said chamber into the body of the bottle. The latter is then returned to its normal position, the air contained therein preventing the liquid in the measuring-chamber from flowing back through or by the plug or disk. The measured liquid is then poured into the receptacle from which it is to be used.

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

The combination with a bottle having a notched or perforated plug seated within its neck portion at a predetermined distance from the orifice, of a device adapted to close temporarily the said orifice independently of the usual cork or stopper, said device consisting of a piece of flexible material having a narrow slitted portion which is spread and sprung over and around said neck portion, a disk or cap portion adapted to be turned down over the said orifice, and a narrow portion which connects the slitted portion to the said cap or disk portion, substantially as specified.

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

FRANK P. NOURSE.

Witnesses:

P. J. REEHLING,  
HARRY E. OTTO.