C. H. GOEBEL.

Liquid Measure and Register.

No. 209,338. Patented Oct. 29, 1878.

Fig. 1.

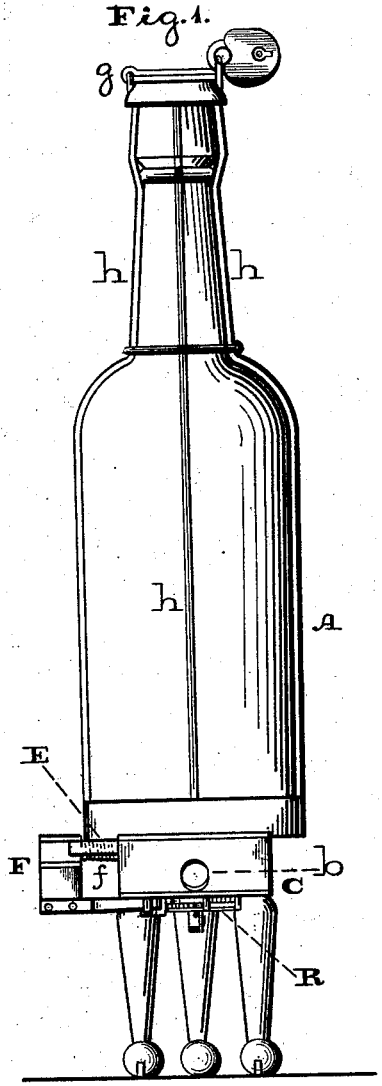


Fig. 2.

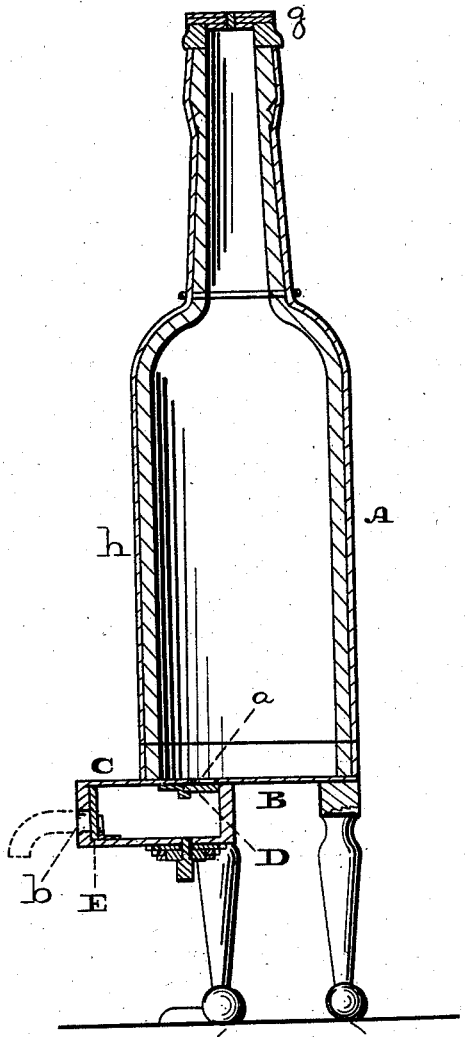


Fig. 3.

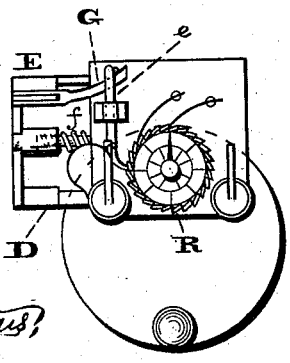
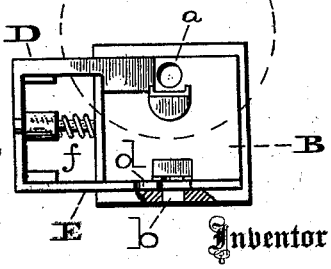


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHRISTIAN H. GOEBEL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENT, TO THE UNITED STATES LIQUOR-REGISTERING COMPANY.

IMPROVEMENT IN LIQUID MEASURES AND REGISTERS.

Specification forming part of Letters Patent No. **209,338**, dated October 29, 1878; application filed March 21, 1878.

To all whom it may concern:

Be it known that I, CHRISTIAN H. GOEBEL, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Registering, Measuring, and Discharging Liquids, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of a bottle having my invention applied thereto. Fig. 2 is a vertical section thereof. Fig. 3 is a bottom view thereof. Fig. 4 is a bottom view of a portion thereof.

Similar letters of reference indicate corresponding parts in the several figures.

My invention relates to an apparatus for registering, measuring, and discharging liquids.

The invention consists of a vessel having a measuring and discharging chamber, provided with an inlet and outlet and valves therefor, in combination with a register and operating-arms. Each discharge is of a predetermined quantity, and the number of discharges is registered, so that the measurement of the whole amount removed from the bottle, barrel, or other vessel may be readily computed, thus providing an apparatus convenient for the above purposes, and serving as safeguards against improper abstraction of the liquid.

It also consists of the vessel having a locked cap, the fixed portion whereof is firmly secured to the vessel by wires or strips, whose lower ends are connected to the bottom plate of the vessel.

Referring to the drawings, A represents a bottle, the bottom of which is removed and covered by a plate, B, having an opening, *a;* or the bottom of the bottle may have a perforation communicating with said opening *a*, the plate being firmly secured to the bottom or lower end of the bottle. Connected to said plate B is a measuring-chamber, C, having a discharge-opening, *b*, the inlet to said chamber being the opening *a* at the bottom of the bottle. The chamber C may, however, be secured to a barrel, cask, demijohn, or other vessel, and it communicates therewith by means of a suitable opening. D represents a slide, which is passed through the sides of the chamber C, or otherwise guided so as to cover and uncover the opening *a;* and E represents a slide, which is also passed through the sides of the chamber C, or otherwise guided so as to cover and uncover the opening *b*, the two slides being so constructed or arranged that when the opening *a* is uncovered the opening *b* is covered, and vice versa, the slide E having an opening, *d*, which is adapted to register with the opening or outlet *b* of the chamber C. The two slides are connected to a cross-bar or handle, F, so as to conveniently and simultaneously operate the slides, and to the same is attached a curved arm, G, which plays in a slot in or bears against an arm, *e*, one end of which carries a pawl for operation of a suitable register, R, located on the under side of the chamber C, or otherwise properly applied. A spring, *f*, is connected to one or both of the slides D E or the handle F, for restoring the slides to their normal position, which is when the opening *a* is uncovered and the opening *b* is covered.

The bottle may be supported on suitable feet, and a pipe or tube may be attached to the chamber C at the outlet or discharge *b*. The top or mouth of the bottle will be provided with a tight-fitting closing-cap, *g*, secured by lock and key, the fixed portion of said cap having connected to it wires or strips *h*, whose lower ends are connected to the plate B at the bottom of the bottle, whereby said cap and plate are firmly secured to the bottle.

The operation is as follows: The cap *g* will be unlocked and opened, and the fluid, preferably previously measured, is poured into the bottle, the same then flowing through the opening *a* into the chamber C, which is thus filled with fluid, the chamber being of a certain capacity. The cap *g* is then locked. When a quantity of the fluid, or, say, a "drink" thereof, is required, the chamber containing exactly that quantity or drink, the bar-keeper or other person forces in the handle or lever

F. This causes the slide D to close or cover the opening *a*, and bring the openings *b d* in communication, thus uncovering the opening or outlet *b*, whereby the fluid in the bottle is cut off from the chamber C, and the fluid in the chamber C immediately discharges through the opening *b* or tube attached thereto. Simultaneous with the movement of the handle F or slides D E, the arms G *e* are moved, whereby the register R is operated, thus indicating the discharge of one drink, or a quantity of liquid equal to the capacity of the chamber C. The handle F is let go, and the parts assume their normal positions, the opening *b* being covered and the opening *a* uncovered, whereby the chamber C again fills from the bottle or vessel A.

As each discharge is of a predetermined quantity and the number of discharges is registered, the measurement of the whole amount removed from the vessel may be readily computed, the advantages of which are evident, and an additional advantage is presented, namely, a safeguard against improper abstraction of the liquid, as the only outlet thereof is through the chamber A, whereby all discharges are measured and registered.

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

1. The combination, with a vessel, of a measuring and discharging chamber, C, having slides D E, and the register R, with operating-arms G *e*, substantially as and for the purpose set forth.

2. The vessel A, with bottom plate, B, and cap *g*, in combination with the connecting wires or strips *h*, substantially as and for the purpose set forth.

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Witnesses:
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