

J. H. WELCH.
Bottle-Register.

No. 205,158.

Patented June 18, 1878.

Fig. 1.

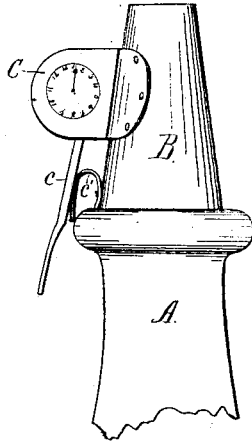
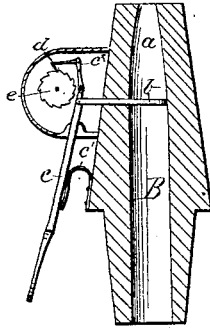


Fig. 2.



WITNESSES

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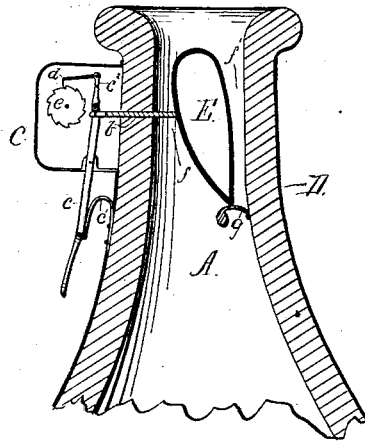
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Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES H. WELCH, OF GEORGETOWN, DISTRICT OF COLUMBIA.

IMPROVEMENT IN BOTTLE-REGISTERS.

Specification forming part of Letters Patent No. **205,158**, dated June 18, 1878; application filed April 13, 1878.

To all whom it may concern:

Be it known that I, JAMES H. WELCH, of Georgetown, in the District of Columbia, have invented certain new and useful Improvements in Registering Devices for Bottles, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 the letters of reference marked thereon, which form a part of this specification.

This invention consists in a combined registering device and valve, especially adapted for application to bottles, decanters, and other portable vessels containing liquor; the object of the invention being to effect the registration of each discharge of liquor.

The invention consists in the combination of a neck or tube adapted for application to bottles, a valve for closing the same, a spring to effect the automatic closing of the valve whenever it is released, and an inclosed registering mechanism, connected with the valve in such manner as to be operated in unison therewith, said elements being combined and arranged in such manner as to produce a portable device adapted for attachment to bottles in ordinary use.

Referring to the accompanying drawings, Figure 1 represents a side elevation of my device applied to a bottle; Fig. 2, a vertical central elevation of my device; Fig. 3, a sectional view, illustrating a modified form of the device.

A represents the mouth of an ordinary bottle, decanter, or demijohn. B represents a tubular neck or stopper, adapted to enter the mouth of the bottle, in which it will be secured firmly and in such manner that it cannot be removed, any suitable means being used to this end.

In the neck B there is mounted a slide-valve, *b*, which may be of any suitable construction, for the purpose of closing the vent or passage and preventing the escape of the liquor. One end of the valve *b* is extended outward through the side of the neck B, and pivoted to a thumb-lever, *c*, which is acted upon by a spring, *c'*, which causes the automatic closing of the valve whenever the lever is released.

As shown in the drawings, the lever is ex-

tended downward in such position as to be conveniently operated by the thumb of the person holding the bottle in an inverted position.

The upper ends of the lever *c* and the valve *b* are inclosed, as represented in Figs. 1 and 2, by a close case, C, secured to the side of the neck B.

Within the case C there is mounted a registering-wheel or system of registering-wheels, *e*, which are acted upon by a drag-pawl, *d*, pivoted within the case C, and the short lever *e'*, which is in turn connected with the thumb-lever *c*, in the manner represented in Fig. 2, so that the action of the thumb-lever to open the valve at the same time causes the movement of the register.

As shown in Fig. 1, the graduated face or dial is provided on the outside of the case C with a hand or pointer, connected with the registering mechanism, and arranged to travel over the face or dial, for the purpose of indicating thereon the number of times the valve has been opened.

The construction and arrangement of the details may be modified as desired, provided the operation of the parts remains unchanged.

Fig. 3 represents an arrangement the same as that above described, except that it is provided with a separate filling channel or passage, *f*, closed at the lower end by an inwardly-opening valve, *g*, which admits of the bottle being filled at any time without operating the main valve, but prevents liquor from being discharged except through the main valve. This feature of the device forms no part of my present invention, being made the subject-matter of a separate application.

Having thus described my invention, what I claim is—

The combination of the tubular neck B, valve *b*, lever *c*, spring *c'*, registering mechanism *e*, and inclosing-case C, said parts being united and arranged to form a device adapted for application to bottles in general.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES H. WELCH.

Witnesses:

JOS. HARPER,
R. W. WELCH.