(Model.)

I. M. ABBOTT.

SIPHON STOP COCK AND BOTTLE STOPPER.

No. 312,600. Patented Feb. 24, 1885.

FIG. 1

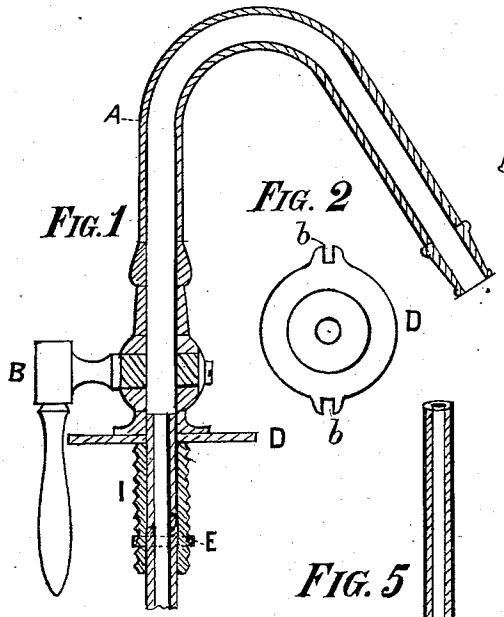


FIG. 2

FIG. 3

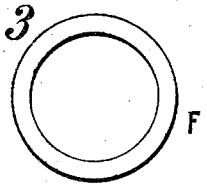


FIG. 4

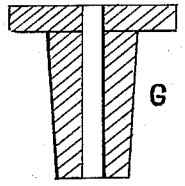


FIG. 5

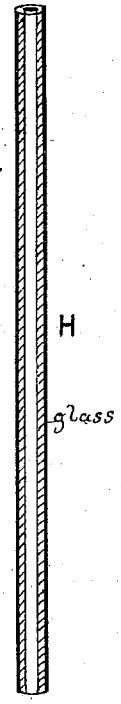


FIG. 7

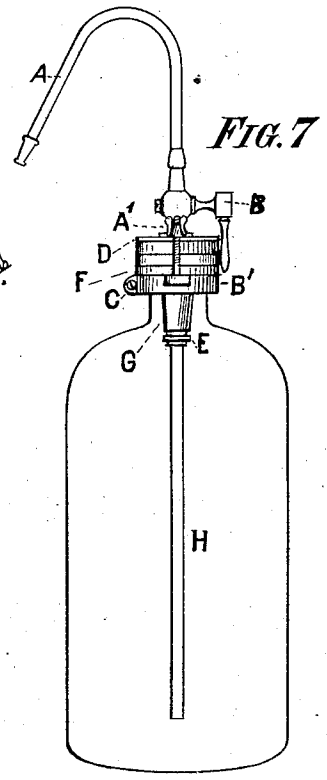


FIG. 6

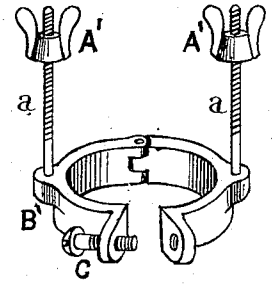
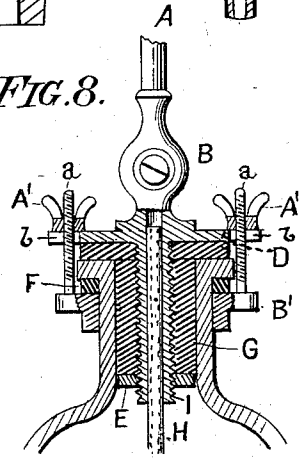


FIG. 8.



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UNITED STATES PATENT OFFICE.

ISAAC M. ABBOTT, OF PHILADELPHIA, PENNSYLVANIA.

SIPHON STOP-COCK AND BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 312,600, dated February 24, 1885.

Application filed February 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, ISAAC M. ABBOTT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Siphon Stop-Cocks and Bottle-Stoppers, of which the following is a specification.

In the accompanying drawings, illustrating the invention, Figure 1 is a sectional view of the upper portion of the siphon and its attachments. Fig. 2 is a plan of the metallic securing-plate. Fig. 3 is a similar view of the rubber packing-ring. Fig. 4 is a vertical section of the perforated flanged cork or stopper. Fig. 5 represents the lower portion of the siphon-tube. Fig. 6 is a view of the hinged clamp. Fig. 7 represents a glass bottle with my improved siphon attachments in position. Fig. 8 is a sectional detail showing the parts in position.

Like letters of reference are used to designate like parts in the several views.

The siphon A is provided with a cock, B, and a perforated base-plate, D, as shown in Figs. 2, 7, and 8. A glass tube, H, is inserted in the lower end of the metallic siphon-tube, and extends down into the bottle or other vessel. This tube H is surrounded at its upper end by a screw-threaded tube, I, over which is closely fitted a perforated flanged cork or stopper, G, composed of rubber or other suitable material.

Beneath the lower end of the stopper G, and clasping the tube I, is a close-fitting nut, E, composed of any suitable material. An elastic ring, F, is placed around the neck of the bottle immediately beneath its lip, and forms a seat for the hinged clamp B′. This ring breaks the force of the pressure of the clamp while being drawn, and obviates any liability of breaking the neck of the bottle. The hinged clamp B′ is provided with a set-screw, C, by which its parts are connected and secured around the neck of the bottle or vessel, being thus adapted to fit various sizes of the same. It also has on each side a lug provided with a vertical screw-stud, *a*, to which is attached a thumb-nut, A′, as shown in Figs. 6, 7, and 8. These screw-studs *a a* extend upward and engage with notches *b b*, formed in the sides of the plate D, as shown in Fig. 2. When the cork or stopper G is inserted in the neck of the bottle, the flanged portion of the stopper resting upon the lip of the bottle, and the screw-studs *a a* of the adjustable hinged clamp B′, engaging with the notches *b b* in the plate D, by simply turning down the thumb-nuts A′ A′ the parts will be firmly secured in the position shown in Figs. 7 and 8. By loosening the nuts A′ the parts may be readily detached when required.

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

1. The combination, with the siphon-tubes A H and plate D, of the screw-threaded tube I, perforated flanged stopper G, and nut E, substantially as shown and described.

2. The combination, with a bottle or similar vessel, of the siphon-tubes A H, plate D, having notches *b b*, perforated flanged stopper G, elastic ring F, and hinged clamp B′, having set-screw C, and screw-studs *a a*, provided with thumb-nuts A′ A′, substantially as shown and described.

3. The combination, with a bottle having a siphon stop-cock and stopper, of the notched plate D, and hinged clamp B′, having set-screw C, screw-studs *a a*, and thumb-nuts A′ A′, substantially as shown and described.

ISAAC M. ABBOTT.

Witnesses:
CHAS. J. KLOPP,
B. F. WAGNER.