

(No Model.)

A. FISCHER.
SIPHON BOTTLE.

No. 250,653.

Patented Dec. 13, 1881.

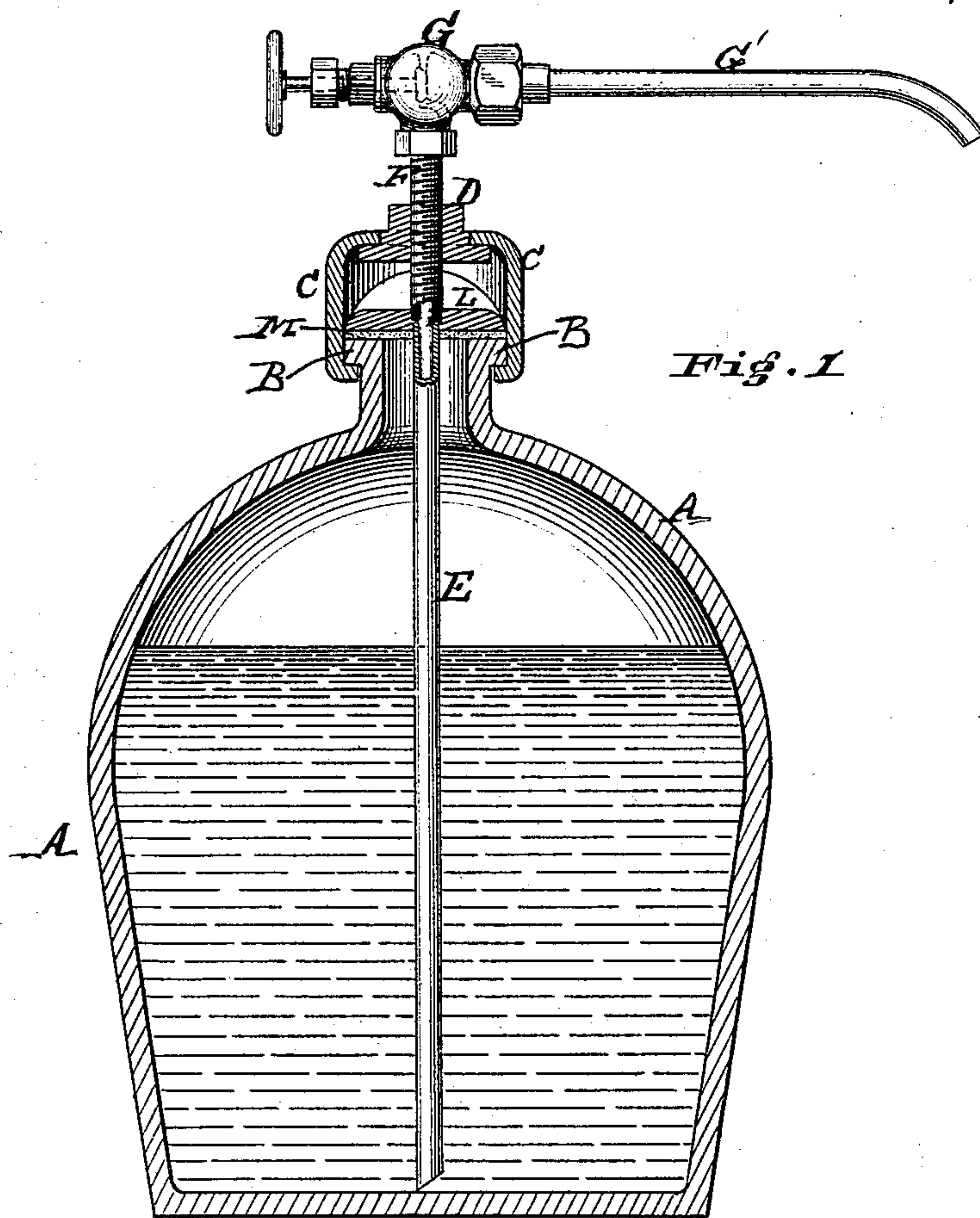


Fig. 1

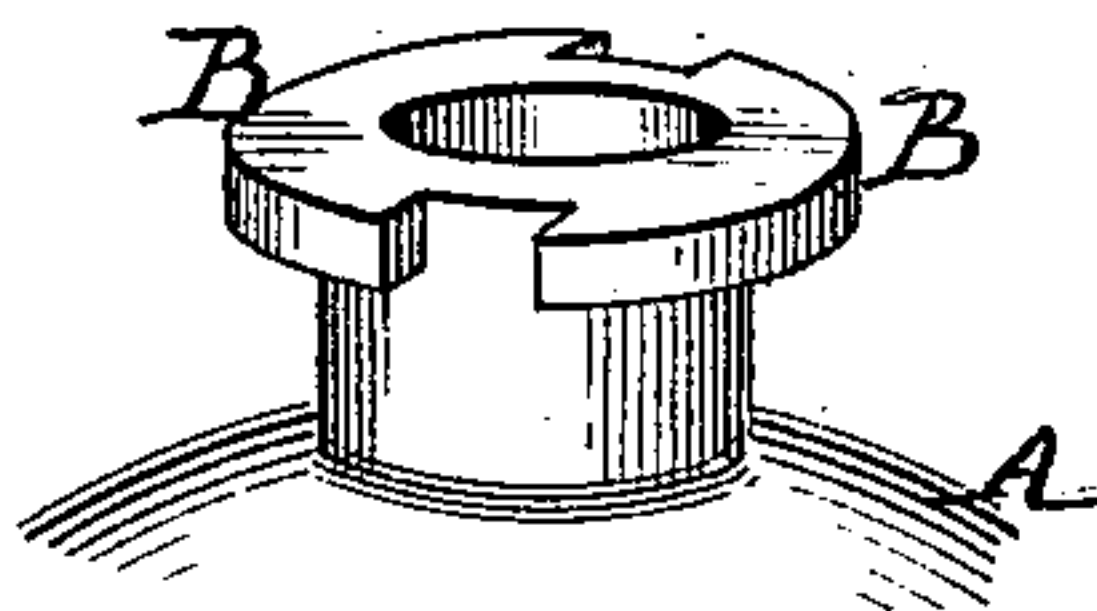


Fig. 2

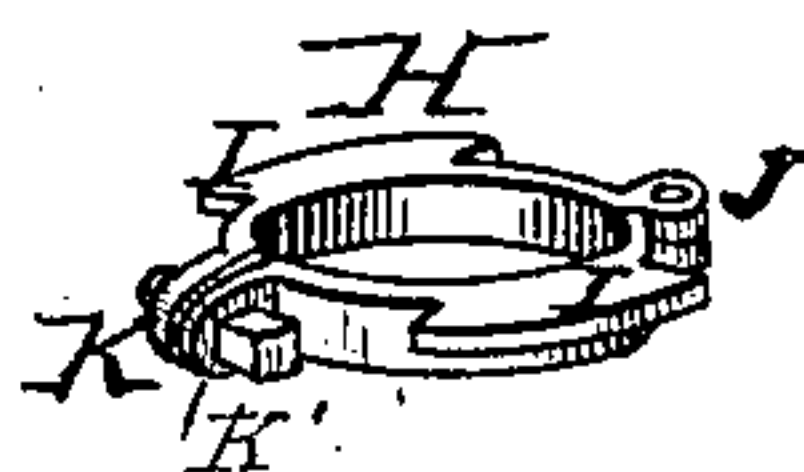


Fig. 3

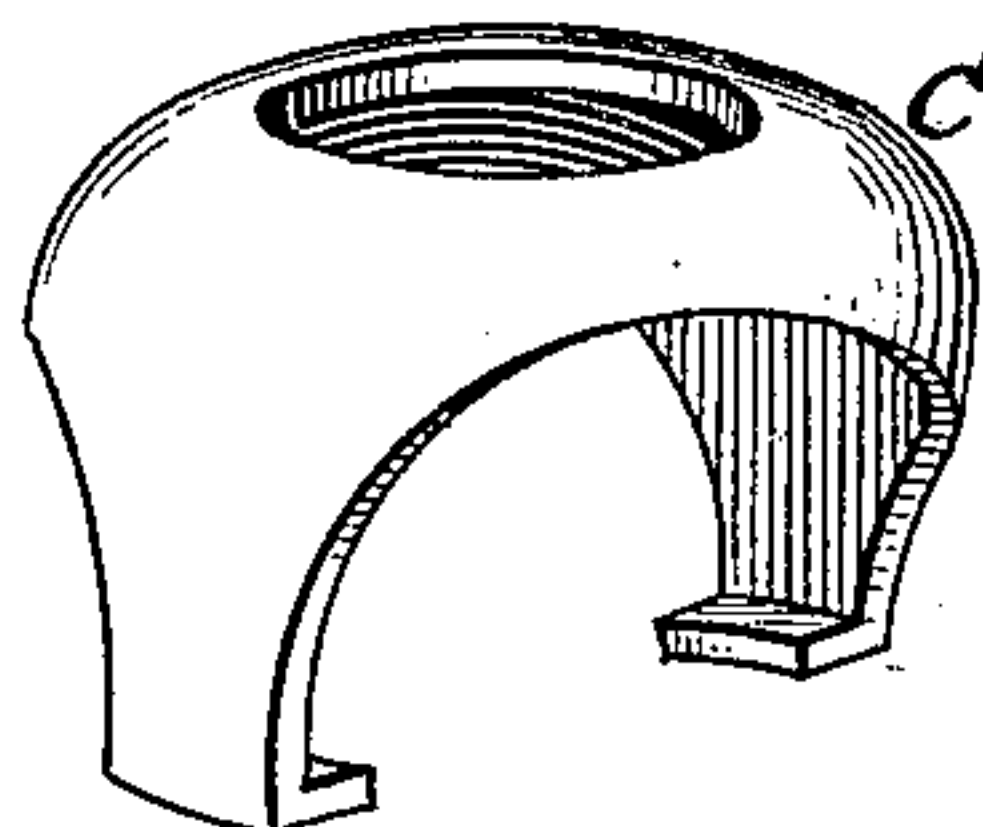


Fig. 4

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UNITED STATES PATENT OFFICE.

ALBERT FISCHER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND ELIZA A. HERTZLER, OF SAME PLACE.

SIPHON-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 250,653, dated December 13, 1881.

Application filed May 24, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALBERT FISCHER, of the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Siphon-Bottles; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making part hereof.

10 The nature of my invention will appear from the following specification and claim.

In the drawings, Figure 1 is a vertical sectional view of my device; Fig. 2, a detached perspective view of the neck of a bottle specially prepared to receive my attachment; Fig. 3, a supplemental adjustable flanged neck-piece to place upon ordinary bottles to receive my improvement; Fig. 4, a detached view of my clutch or clamp.

20 A is the bottle or jug; B, the flanges of the neck; C, the clamp; D, a flanged screw-nut; E, the siphon-tube; F, a screw-thread upon the upper part of the siphon-tube; G, the valve; G', discharge-spigot; H, the supplemental adjustable flanged neck-piece; I, the two flanges thereof; J, its hinge; K, its adjustable screw; L, a large flange secured rigidly upon the siphon-tube; M, a rubber washer or packing to tightly pack the space between the flange and the upper surface of the neck of the bottle. The clutch C clamps over the upper edge of the flange of the screw-nut D, and below under the flange B of the neck of the bottle. There are two sections of the flange B, cut out (see Fig. 2) to permit the entry of the lower inwardly-turned lips of clamp C beneath them. The lips of the clamp are pushed down through these channels, and the clamp is then turned so as to bring its lips under the flange B on either side. The screw-nut (see Fig. 1) is then turned so as to pass up on the thread F. The flange of the nut thus strikes the under surface of the top of clamp C, draws it up tightly, and forces down the flange L upon the rubber washer, thus tightly sealing the bottle. It is unsealed by reversing the movement of nut D—that is, running it down the thread F.

For placing my apparatus upon the necks

of ordinary bottles, which are not provided with the cut flange shown in Fig. 2, I pass the flanged neckband H, Fig. 3, around it and tighten the adjusting-screw K, so as to secure it, care being taken that the flanges I I are wider than those of the bottle. The inner edges of the lips of clamp C should be slightly farther apart than the length of the diameter of the flange of the bottle. The apparatus is then applied as above described, the lips of the clamp setting in beneath the broken or cut flanges of the neck-piece H. The neckband H will fit various sizes of necks, as the screw K can be taken out, the band opened by its hinge J, and then clasped around the neck, the lower screw, K, can then be placed through the ears K', only one of which is screw-threaded, and the band drawn up until it is tight by turning the screw K.

The valve G is an ordinary globe-valve and the discharge-tube extends from it laterally, the said tube communicating with the interior of the valve, as well as the upper portion of the siphon-tube, in such manner that communication may be readily established or cut off between the two for the purpose of discharging or retaining the water.

My bottle is filled with the liquid to be charged with gas. The apparatus described is then inserted and fitted to it. After this it is charged with aerated gas through the spigot or valve.

The tube E, with its screw-threaded portion, I make of one piece of suitable metal, and the disk L is rigidly secured thereon, as above stated.

What I claim as new is—

The combination, in a siphon-bottle, of the screw-threaded siphon-tube, the flange or disk rigid thereon, the packing, the clamp, the flanged nut, and a valve at the junction of the siphon-tube with the spigot, substantially as and for the purpose described.

ALBERT FISCHER.

Witnesses:

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WM. H. CARSON.