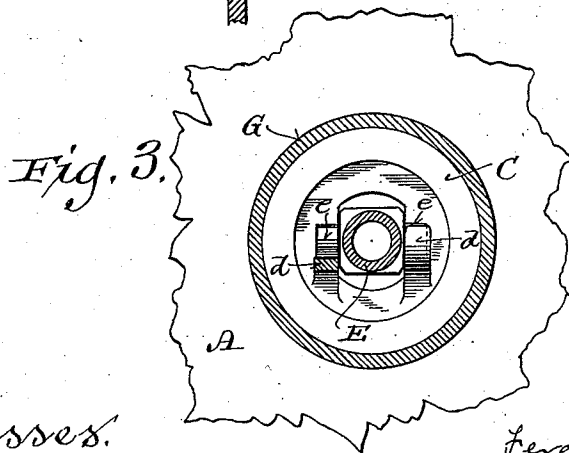
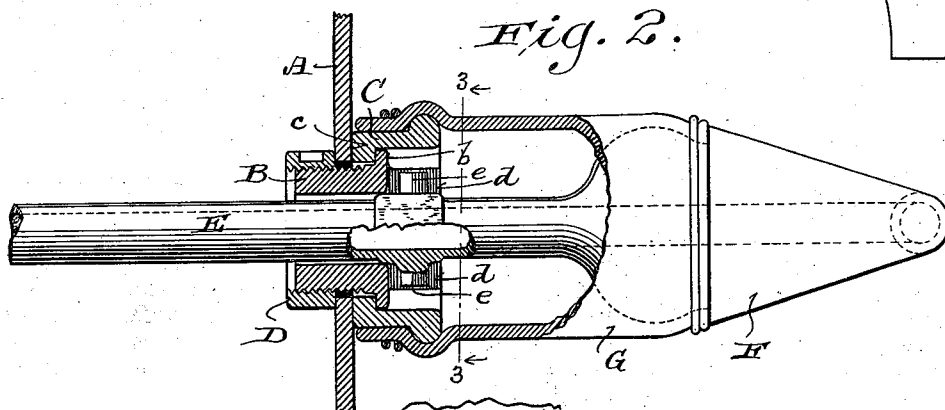
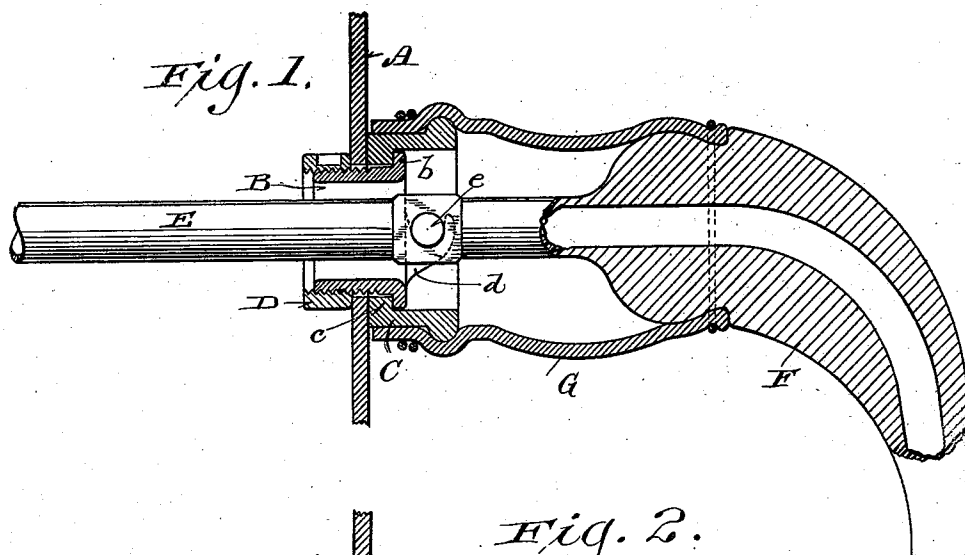


(No Model.)

F. BARTHOLD.
BOTTLING SIPHON.

No. 504,513.

Patented Sept. 5, 1893.



Witnesses.

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UNITED STATES PATENT OFFICE.

FERDINAND BARTHOLD, OF MILWAUKEE, WISCONSIN.

BOTTLING-SIPHON.

SPECIFICATION forming part of Letters Patent No. 504,513, dated September 5, 1893.

Application filed May 18, 1893. Serial No. 474,677. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND BARTHOLD, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Bottling-Siphons; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to exclude air from fluid-tanks provided with bottling siphons, and it consists in certain peculiarities of construction and combination of parts hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings: Figure 1 represents an elevation of a bottling siphon partly in section and provided with my means for the exclusion of air from the tank to which it is connected; Fig. 2, a plan view of the same partly in horizontal section, and Fig. 3, a transverse section on line 3—3 of the preceding figure, one of the bearings shown in this view being partly broken away.

Referring by letter to the drawings A represents a portion of a fluid tank, B an exteriorly screw-threaded sleeve engaging an opening in the tank and having its rear end provided with an outwardly extended flange *b* that comes in frictional contact with an interior flange *c* of a ring C, the latter being held against the inner face of said tank by a clamp-nut D run on the outer end of said sleeve. The sleeve B is provided with bearings *d* for trunnions *e* on a siphon-tube E having a counter-weight portion F, and the construction and arrangement of parts thus far described are common in the art.

For aerated fluids it is desirable that the tank be practically air-tight, but ordinarily this object is defeated because of the open sleeve in which the siphon-tube tilts. To overcome the difficulty heretofore experienced I give the ring C such an exterior contour as

to provide for the tight fit and wiring thereon of one end of a flexible air-proof sleeve G the other end of this sleeve being wired to the counter-weight portion of the siphon-tube. In order to have a flush connection of the air-proof sleeve and counter-weight portion of the siphon-tube, as well as to make the tightest possible joint I reduce the upper portion of the counter-weight and give the same a contour substantially such as is shown in full lines in Fig. 1. Rubber tubing will answer for the air-proof sleeve in most instances, and it is apparent that this sleeve not only cuts off the outside air from the tank, but also prevents the escape of any gases therefrom.

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

1. A fluid tank provided with a ring encircled bushing, and a counter-weighted siphon tube trunnioned to the bushing; in combination with a flexible air-proof shield connecting the ring and counter-weight, substantially as set forth.

2. A bottling siphon comprising an exteriorly screw-threaded sleeve that fits a corresponding aperture in a fluid tank and is provided at the rear with an outwardly extended flange, a ring encircling the sleeve and provided with a flange opposed to the one aforesaid, a clamp-nut run on said sleeve, and a counter-weighted siphon tube trunnioned to the aforesaid sleeve; in combination with a flexible air-proof shield connected to the ring and counter-weight, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FERDINAND BARTHOLD.

Witnesses:

H. E. OLIPHANT,
H. G. UNDERWOOD.