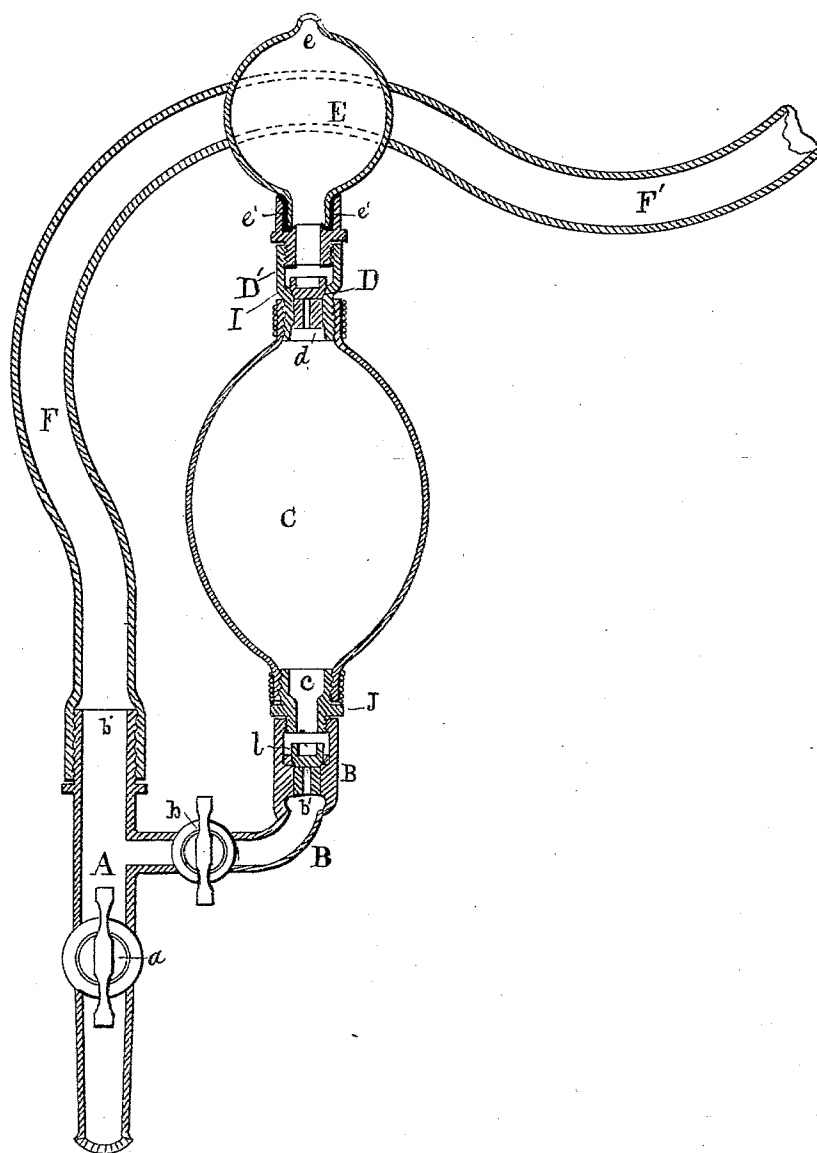


(No Model.)

F. D. RYAN
SIPHON.

No. 300,328.

Patented June 10, 1884.



Witnesses

John Lockie
H. C. Huntemann

Inventor

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UNITED STATES PATENT OFFICE.

FRANCIS D. RYAN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO
WM. H. STONE, OF SAME PLACE.

SIPHON.

SPECIFICATION forming part of Letters Patent No. 300,328, dated June 10, 1884.

Application filed February 1, 1884. (No model.)

To all whom it may concern.

Be it known that I, FRANCIS D. RYAN, a citizen of the United States, residing at St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Siphons, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in compression-siphons for drawing liquids from one vessel to another, which will be hereinafter more particularly described, and pointed out in the claim.

In the accompanying drawing, forming part of this specification, the figure is a section of the siphon.

A is the nozzle, having a branch pipe, B. C is an elastic rubber bulb. D is an upper valve-seat in a metallic socket, D'. E is a glass globe, having at the top a vent-hole, *e*. F is a rubber hose or metallic tube, when the nature of the liquid requires it to be of either material. D' and J are metallic sockets, corrugated at one end, on the outside, for insertion into the rubber bulb C, which ends are to be wrapped on the outside with fine wire or cord to make the joints air-tight. I and *l* are valves. *b* is a stop-cock in the branch pipe B. *a* is a stop-cock in the nozzle A. *e'* is a filling of some material, as plaster-of-paris or other cement, for making an air-tight joint with the glass globe.

The operation of the siphon is as follows:

Insert the free end F' of the hose or pipe F into the bung-hole or opening of the vessel from which the liquid is to be drawn, closing the cock *a* in the nozzle A, and open the cock *b* in branch B, compress the bulb C with the hand, and let it again expand, and thus repeat the operation until all the air in the pipe F is exhausted through the vent *e* of glass globe E, when the liquid will follow and appear in the globe E. Then close the cock *b* in branch B and insert the nozzle A in the vessel to be filled, open the cock *a*, and the liquid will continue to flow until the operation of filling or exhausting shall have been completed. Then close the cock *a*, draw out the hose or pipe F, invert the siphon, and the valves I and *l* will drop and permit the liquid in the siphon to flow through the opening *e* in globe E.

I claim—

A siphon having the elastic bulb C, surmounted by a glass globe, E, having a vent-hole and a stop-cock, *b*, between the bulb and the discharge-tube A, said discharge-tube having the stop-cock *a*, all combined substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS D. RYAN.

Witnesses:

SAM GALEY STONE,
H. J. PARSONS.