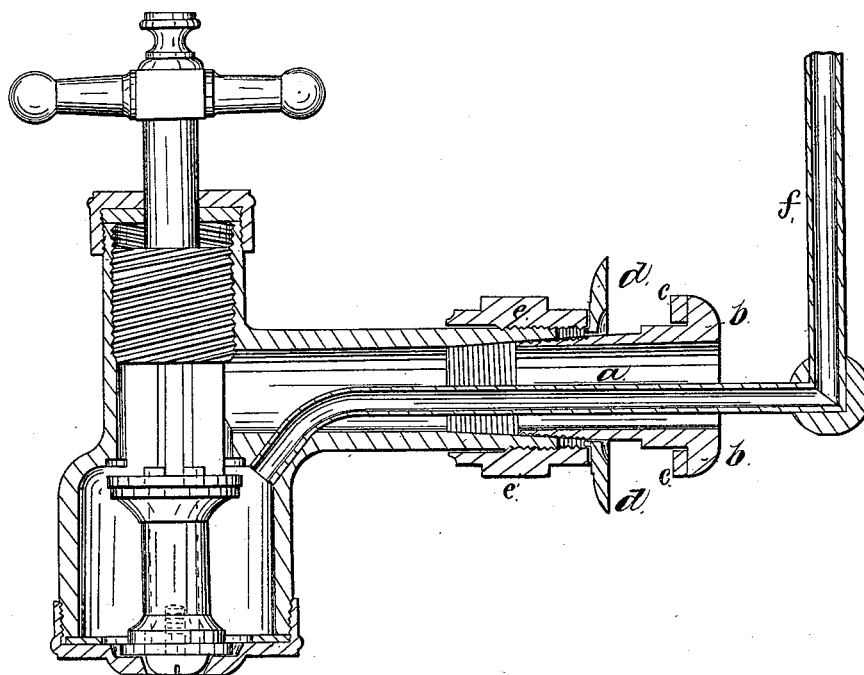


A. D. Puffer.

Syring-Valve for Soda Fountains.

N^o 46,938.

Patented Mar. 21, 1865.



Witnesses:

Francis Gould.

Inventor:

A. D. Puffer.

UNITED STATES PATENT OFFICE.

A. D. PUFFER, OF SOMERVILLE, MASSACHUSETTS.

IMPROVEMENT IN SIRUP-VALVES.

Specification forming part of Letters Patent No. 46,938, dated March 21, 1865.

To all whom it may concern:

Be it known that I, A. D. PUFFER, of Somerville, county of Middlesex, State of Massachusetts, have invented an Improved Sirup-Valve; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention, sufficient to enable those skilled in the art to practice it.

In that variety of beverage-fountains now in common use which employ a marble or other suitable casing for containing sirup vessels, ice, &c., considerable difficulty has been experienced in securing the draft-valves thereunto. To remedy this difficulty, and to facilitate the fixture of such valves and similar articles, is one of the objects of my invention. In such fountains, and with measuring discharge-valves employed to deliver a given quantity of sirup or other fluid, it is desirable, if not absolutely necessary, to have air passages connected with the measuring-chambers, said passages or pipes terminating on higher levels than the surface-levels of the fluids to be drawn, the air-pipes being for the purpose of facilitating the emptying of the measuring-chambers. To hide said pipes from sight, to protect them, and avoid any necessity for making separate holes through the fountain-case for ingress and egress of said air-pipes, is another object of my invention.

Heretofore in securing a draft-valve to a fountain-case, and a sirup or other receptacle within, it has been customary to project through the receptacle and case a hollow screw-plug, *a*, with a shoulder, *b*, against which, and between it and the receptacle, was a rubber or leather packing, *c*. The valve was then screwed upon the piece *a*, this being kept from turning, and the valve being turned around on *a* till it could be turned no more, by reason of the end of the valve case binding against the washer *d*, and in this condition the valve very seldom came in the right position, and had to

be turned back, which left it loose and liable to leakage in the joint between *a* and the valve-body, and also left a looseness between the sirup-case and the shoulder *b* and packing *c*.

Now, one part of my invention consists in supplying the end of the valve-case with an adjustable screw-collar, *e*, by which the hollow screw-plug *a* is packed, and the valve is firmly held to the casing in its proper position.

By inspection of the drawing it will be readily seen that the valve-case can be turned upon the hollow screw-plug *a* until it is perfectly tight and secure thereupon, the valve-case being all the time free to be left in the desired position, and that then when so placed rotation of the collar *e* in the proper direction will push the valve-case outward, confining it rigidly in position, and will draw the shoulder *b* hard against the packing *c*. The air-pipe *f* is seen as passing through or as contained within that part of the valve-case which leads directly from the sirup-can, and as debouching into the measuring-chamber of the valve. The pipe *f* is jointed within the sirup-can, and extends upward within it above the highest level of the sirup.

It is unnecessary to explain the construction of other parts of the valve, as they are not herein claimed as parts of my invention, and as they are clearly shown in the drawing.

I claim —

1. The shouldered hollow screw-plug with its packing, the washer *d*, the screw-collar *e*, and the screw-thread on the valve-case body, when arranged with a sirup valve or faucet, substantially as shown and specified.

2. Conducting the air-tube, which facilitates the emptying of the measuring-chamber through the passage of the valve-case, substantially as and for the purpose described.

A. D. PUFFER.

Witnesses:

FRANCIS GOULD,
W. B. GLEASON.