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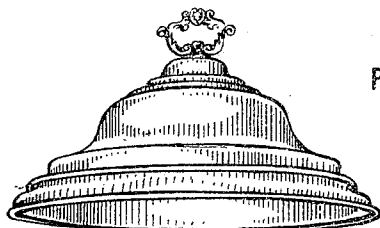
ELISHA B. MYERS'

Improved Soda Fountain.

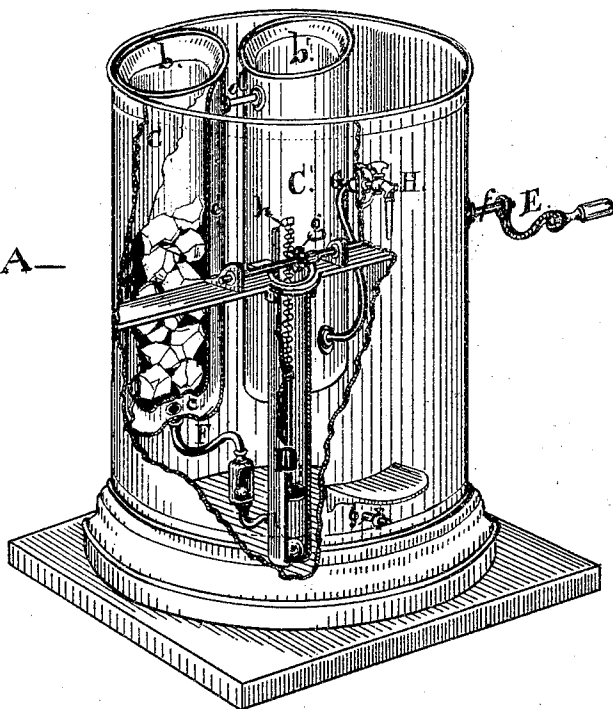
No. 118,876.

Patented Sep. 12, 1871.

-B.-



-A-



Witnesses.

L. D. Christy

W. H. Jenkins

Inventor.

E. B. Myers

UNITED STATES PATENT OFFICE.

ELISHA B. MYERS, OF HANDSBOROUGH, MISSISSIPPI, ASSIGNOR TO HIMSELF
AND CARSON MUDGE, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN SODA-FOUNTAINS.

Specification forming part of Letters Patent No. 118,876, dated September 12, 1871.

To all whom it may concern:

Be it known that I, ELISHA B. MYERS, of Handsborough, Harrison county, and State of Mississippi, have invented a new, useful, and Improved Soda-Fountain; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the drawing annexed, forming a part of this specification.

My improvement relates to that class of soda-fountains in which a mixture of bicarbonate of soda, or whatever other alkali may be employed, and the water which may be necessary with this to make the proper solution, is forced by means of a pump, as it is required for consumption, through a cooling-chamber, directly into a glass or other drinking-vessel which has been previously supplied with the acidulated sirup required to complete the composition and consequent effervescence constituting what is generally known as soda-water. My device is of very economical construction, is portable, and very simple in its mode of operation. But my invention will be more clearly understood by referring to the drawing, whereon all that I claim as pertaining thereto is very clearly shown, and on which it is represented, in perspective, with a portion of the outlet-casing of the fountain omitted the more clearly to expose to view the internal arrangement and mechanism thereof.

A is a cylindrical vessel, provided with an enlarged base, that it may be retained steadily in position upon a counter or table, or in any other position where it is to be operated; and it is furthermore provided with a cover, B, which may be removed at pleasure for the purposes of replenishing the said vessel with the mixture of the alkalies and water which are to be used therein, and also the ice or other freezing mixture required for the ice-chambers. This vessel should be made of metal or of any other material which may be found suitable. It may likewise be made in any other form than that herein described without in any manner deviating from the principles involved therein, or without affecting its efficiency in practice. C C' are the coolers, each of which are so constructed as to be provided with an inner ice-receptacle, as shown by *b b'*, and with the spaces or chambers *c c'*. These cool-

ing-chambers are connected by means of one or more pipes, as indicated at *d*. D is a lift and force-pump, by means of which the alkali or liquid solution of water and soda as aforesaid may be drawn up from the bottom of the fountain A and forced into and through both the said cooling-chambers *c c'*, and finally, as before stated, out into a glass or other drinking-vessel containing the acidulated sirup required to complete the effervescent composition known as soda-water. The said pump D is operated by hand applied to the crank E placed upon the end of the horizontal shaft *f*, upon which is the small pinion *g* working into the upright ratchet piston-rod *h*, to the lower extremity of which is securely attached the piston *i* working within the pump-chamber. F is the pipe through which the solution is forced, by means of the above-described pump, into the aforesaid cooling-chambers *c c'*; and G is the pipe through which the said liquid-alkali solution finds its exit from the fountain to the stop-cock H, and finally to the drinking-vessel containing the acidulated sirup, as before explained. It will now be perceived that if ice or any other freezing mixture be placed within the ice-receptacles *b b'* the liquid solution which must pass through the chambers *c c'*, by the means and in the manner above described, will become properly cooled as it is desired for consumption and use. I is a stop-cock, by means of which any liquid not required for use may be withdrawn from the vessel A. The revolution of the crank in either direction, or merely the oscillation thereof, will be quite sufficient for the effective operation of the pump, as experience in its use will clearly demonstrate.

Having described my invention, what I desire to secure by Letters Patent, is—

The within-described portable soda-fountain, when provided with a pump, D, coolers C C' having ice-receptacles *b b'* and cooling-chambers *c c'*, when all these are constructed and operated substantially as described, and for the purposes set forth.

E. B. MYERS.

Witnesses:

L. I. OLMSTEAD,
H. N. JENKINS.