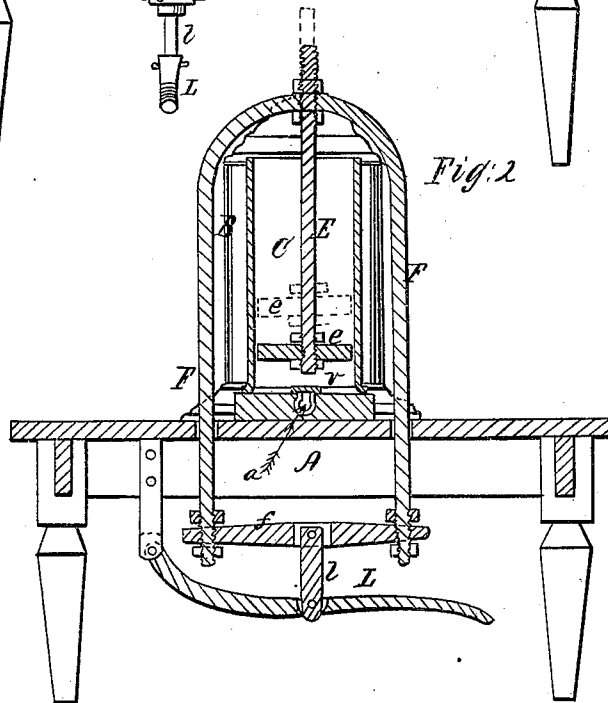
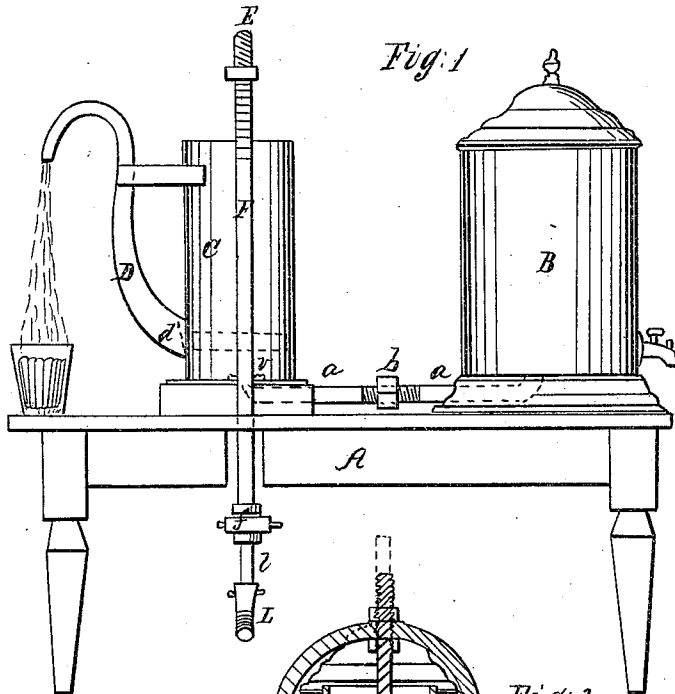


D. Neff.

Soda Fountain.

N^o 87,962.

Patented Mar. 16, 1869.



Witnesses

Baltis DeLong.
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by his atty
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UNITED STATES PATENT OFFICE.

DAVID NEFF, OF HENRY COUNTY, INDIANA.

IMPROVEMENT IN SODA-FOUNTAIN.

Specification forming part of Letters Patent No. 87,962, dated March 16, 1869.

To all whom it may concern :

Be it known that I, DAVID NEFF, of Henry county, in the State of Indiana, have invented a new and useful Apparatus for Making Soda Drinks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which like parts are indicated by like letters in the several figures.

The nature of my invention consists in apparatus for furnishing cool water in such quantities as may be wanted to a vessel containing the chemical ingredients necessary, avoiding their coming in contact with metal pipes, &c., corroding the same, which usually leads to bad consequences.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the drawings, Figure 1 represents a side elevation of my machine, and a feeding-cooler; and Fig. 2 is a vertical section through the former, &c..

A represents any table or support for my apparatus. B is any ordinary water-vessel or ice-cooler, while C represents a suction and force pump, which is connected to B by a pipe, *a*, entering the bottom of each. *a* may be made of two sections, one attached to each of the vessels, and connected together at *b* by a coupling. The connection of pipe to the cooler may also be made by a coupling, by which means the several parts may be readily separated and removed where and when desired.

The mouth of pipe *a*, where it enters the bottom of the fountain or vessel C, is covered by a valve, *v*, made so as to rise. There is also a hinged valve, *d*, inside of and at the bottom of the spout D, opening into the same. *E e* represent a valve which plays up and down tightly inside of vessel C. The top of E passes through and is secured to a W-shaped metal

rod, F, which extends down through the table A. The ends of the bent rod pass through and are secured, as seen, to a cross-piece, *f*, at such distance below the table as to give the valve *E e* sufficient play up and down in C. *f* is connected to a pivoted lever, L, by a link, *l*, pivoted at each end. Any ornament may surmount the rod E.

Before proceeding to the operation of my machine or apparatus, I will first state the preliminaries. I first prepare the ingredients to be used—say, I have soda and sugar in one bottle, and the acid and sugar and eggs in another to make a rich drink. Any flavoring-extract can be supplied. I then proceed to put into a glass proper quantities or proportions out of the bottles just referred to.

By raising the lever L, the valve *v* at the bottom of C is raised, sucking in or permitting a flow of water from the cooler B. At the same time this movement closes the valve *d* at the bottom of the spout. The glass, with its contents, (chemicals, &c.,) being placed on the table or held under the spout D, the lever L is now pressed down, and this movement closes the valve *v* and forces open *d*, forcing the water just drawn from B up through and out of the spout into the glass, producing the desirable effervescence, and thus getting a cool refreshing drink in all its purity. The operation can be repeated as often as desired.

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

The combination and arrangement of cooler or reservoir B, pipe *a* fountain or vessel C, plunger *E e*, rod F, connecting-piece *f*, link *l*, and lever L, constructed and operated in the manner as shown and described, and for the purpose set forth.

DAVID NEFF.

Witnesses :

J. P. THEODORE LANG,
BALTIS DE LONG.