



DANIEL KOLB AND THOMAS KOLB, OF WASHINGTON, DISTRICT
OF COLUMBIA.

Letters Patent No. 87,177, dated February 23, 1869.

IMPROVED MODE OF CARBONATING AND DISPENSING ARTIFICIAL MINERAL-WATERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, DANIEL KOLB and THOMAS KOLB, of the city of Washington, in the District of Columbia, have invented a new and improved "Mode of Carbonating and Dispensing Artificial Mineral-Waters;" and we do hereby declare that the following is a full and exact description thereof.

The nature of our invention consists in placing in an ordinary wide-mouthed "water-bottle," a sufficient quantity of the chemicals from which the artificial water is made, to compose one glass, and by applying the mouth of the "bottle" to the stop or draught-cock of the soda-fountain, to carbonate it to the requisite degree.

In this way we can carbonate from the same fountain; and from pipes constantly in use, all kinds of artificial water, such as Congress, Seltzer, Kissingen, Vichy, &c., without the aid of a fountain, and pipes, and draught-cock for each of the several waters dispensed.

To enable others to use our invention, we will proceed to describe it, and the manner of operating it.

We take, of the concentrated solution of the chemical ingredients necessary to compose, or of which either of the artificial mineral-waters is composed, a sufficient quantity, which, when carbonated to the proper degree, will fill an ordinary half-pint tumbler.

This solution, thus carefully measured, we keep in glass vials, tightly corked, and when a glass of either of said waters is called for, we empty the contents of one of these vials (the concentrated solution) into an ordinary wide-mouthed "water-bottle," which we apply to the draught-cock of an ordinary soda-fountain, and carbonate it.

Should the soda-fountain be charged too highly to admit of its exclusive use in carbonating these waters, it can readily be reduced by adding thereto a proportionate amount of cold water, viz, suppose you desire to draw a glass of mineral-water, which requires only 40° to carbonate it, and your fountain should be charged

to 80°; place your concentrated solution of chemical ingredients in the "water-bottle," pour into it one-half as much cold water as will fill the glass required, and apply the "bottle" to the draught-cock of your soda-fountain, and carbonate it by drawing enough to fill the glass; thus you have the water carbonated to the requisite degree.

The advantages of this invention of carbonating and dispensing artificial mineral-waters are manifold.

First, it dispenses with the extra fountains, pipes, and draught-cocks now used for each of the several waters sold, and which cost from fifty to one hundred dollars each.

Second, in consequence of this reduction of expense, it places these waters within reach of every one possessing an ordinary soda-fountain.

Third, the "concentrated solution of chemicals" being kept in glass, and being carbonated from the soda-fountain, which is constantly in use, obviates the present objection to its use, that when kept in a separate fountain it frequently stands a long time in the metal-fountain pipes or draught-cock, and makes it not only unpleasant to the taste, but offensive to the stomach, and deleterious to the health.

These artificial mineral-waters being greatly used by invalids and others, it is desirable to introduce them in as pure a state as possible, and as extensively as possible.

Our invention not only places them within reach of all, but enables them to be dispensed in a pure state.

What we claim as our invention, and desire to secure by Letters Patent, is—

The mode of carbonating and dispensing artificial mineral-waters, in the manner and for the purposes substantially as set forth.

DANIEL KOLB.
THOMAS KOLB.

Witnesses:

A. C. KLINK,
N. E. FILLMORE.