Weber & Greene,

Soda Water Apparatus.

No. 46,283. Patented Feb. 7, 1865.

Fig: 1.

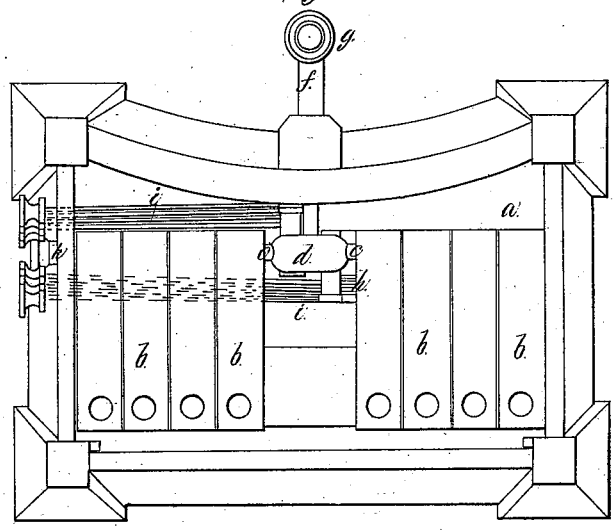


Fig: 4.

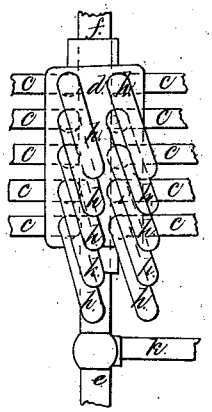


Fig: 2.

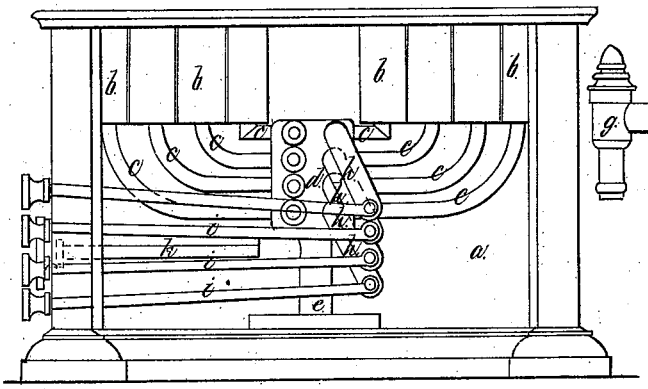
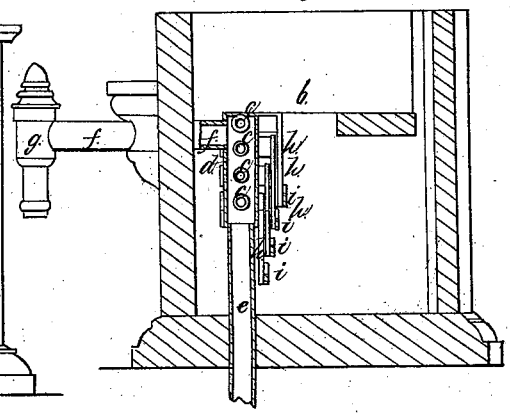


Fig: 3.



Witnesses:
H. Greene
F. B. Redden

Inventors:
H. A. Weber
W. H. Greene
by their Atty F. B. Crosby

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK A. WEBER AND WILLIAM H. GREENE, OF WOONSOCKET, R. I.

IMPROVED SODA-WATER APPARATUS.

Specification forming part of Letters Patent No. **46,283**, dated February 7, 1865.

To all whom it may concern:

Be it known that we, FREDERICK A. WEBER and WILLIAM H. GREENE, both of Woonsocket, in the county of Providence and State of Rhode Island, have invented Improved Soda-Water Apparatus; and we do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of our invention sufficient to enable those skilled in the art to practice it.

Our improvement relates to the construction and arrangement of parts of apparatus for preparing soda-water beverages, the object of this invention being to compact the parts in such manner that the apparatus can be easily worked and kept in repair, and the beverages prepared at one outlet or eduction tube.

The invention consists in the employment, within the case or box containing the sirup-cans and soda-water pipe, of a valve-case with which all the sirup-vessels connect, the sirup-pipes discharging into a main outlet-pipe, into which the soda-water also discharges, the sirup and soda-water being drawn from one common tube, and the valve-case being constructed with a series of valves controlled by a system of valve levers and rods operated at the side of the box or chest containing the valve-case and sirup-vessels.

The drawings show an apparatus embodying our invention, Figure 1 representing a top view of the sirup-vessels, valve-case, and other parts connected therewith; Fig. 2, a rear elevation of the same; Fig. 3, a vertical cross-section of the apparatus, taken through the valve-case.

a denotes the box or chest containing the sirup-vessels, *b*, which are arranged within the chest in any convenient manner, so that from each vessel a sirup-pipe, *c*, shall lead from the vessel into a valve-case, *d*, placed within the chest *a*, as seen in the drawings. Into this valve-case the pipe *e* from the soda-fountain also enters, and from it a pipe, *f*, leads to the draft or outlet tube *g*, the valve-case *d* or a central pipe leading through the same, making a common passage for the flow of the several sirups from the vessels *b* and the aerated water from the soda-fountain.

The valve-case *d* is constructed with a series of valves, one for each sirup-pipe entering therein, each valve having an arm or lever, *h*, and a rod, *i*, by which the valve is opened and closed from the side of the apparatus, as will be readily understood, the sirup-pipes entering the case from opposite sides, but the arms *h* being so arranged with respect to the case and each other that the system of rods *i* extend out to the same side of the apparatus, terminating in such juxtaposition that they are all easily operated by the attendant with one hand, while with the other he adjusts the draft-tube *g*. A valve-rod, *k*, also terminates adjacent to the rods *i*, this rod operating a valve in the fountain-tube *e*. This valve is operated by turning or rotating the handle upon the rod, while the sirup-valves are opened and closed by drawing out and pushing back the handles upon the rods *i*.

The apparatus operates as follows: The valve in the tube *e* being closed, the valve in the pipe leading from the vessel containing the sirup to be used is opened, and the draft-tube being open, the sirup flows through its pipe *c* and valve into and through the case *d*, outlet-pipe *f*, and draft-tube *g* into the tumbler held or placed below the draft-tube. The sirup-valve being now closed, the fountain-valve in pipe *e* is opened, when the soda water rushing through the case *d* washes out the sirup in the case *d*, pipe *f*, and tube *g*.

The valve-case shown in Fig. 4 is intended to be placed horizontally in the bottom of the case *a*, the arms *h* being all upon the upper side of the case, and they being so arranged that the rods to operate the valves may all lead in one direction from the valve-case. In this arrangement the fountain-pipe *e* and outlet-pipe *f* lead from the opposite ends of the case *d*, or the pipe *f* extends through the case, all the sirup-pipes debouching into the c ntral pipe, as will be readily understood.

We claim—

The valve-case *d*, when arranged within the box *a*, and with the system of sirup-pipes *i*, fountain-pipe *e*, and outlet-pipe *f*, connecting therewith, the valves in the sirup and fountain pipes being operated by a system of levers and valve-rods, and the whole constructed and arranged substantially as shown.

In witness whereof we have hereunto set our hands this 31st day of December, A. D. 1864.

FREDERICK A. WEBER.
WILLIAM H. GREENE.

In presence of—
J. B. CROSBY,
F. GOULD.