

G. WENKER.

MACHINES FOR BOTTLING AERATED WATER.

No. 180,294.

Patented July 25, 1876.

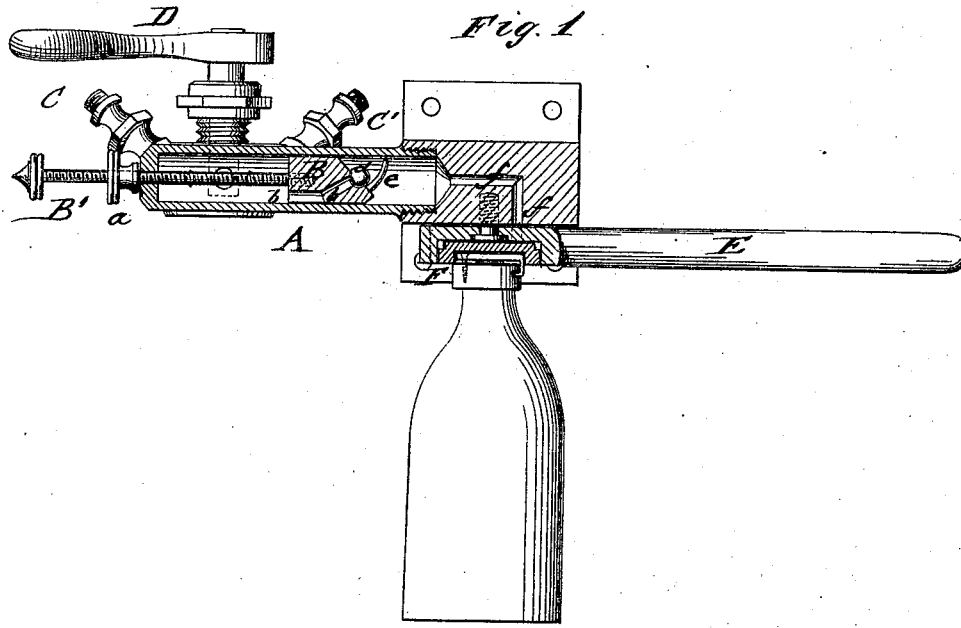


Fig. 1

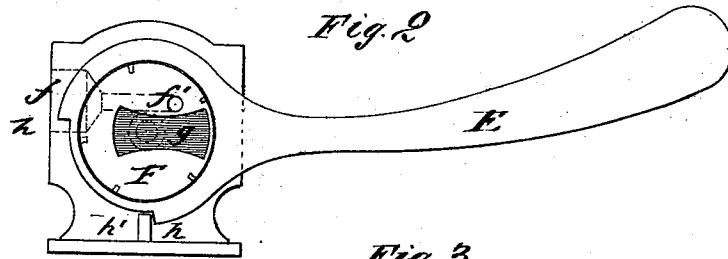
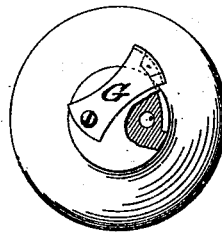


Fig. 2

Fig. 3



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE WENKER, OF ST. JOSEPH, MISSOURI.

## IMPROVEMENT IN MACHINES FOR BOTTLING AERATED WATERS.

Specification forming part of Letters Patent No. **180,294**, dated July 25, 1876; application filed May 1, 1876.

*To all whom it may concern:*

Be it known that I, GEORGE WENKER, of St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and Improved Machine for Bottling Aerated Waters, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view of my improved machine or gas-pump for bottling soda and mineral waters, partly in longitudinal section. Fig. 2 is a bottom view of the handle for opening and closing the stopper of the bottle; and Fig. 3 is a top view of the bottle.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved machine or pump for manufactures of soda and mineral water, by which the exact quantity of sirup to be used in bottling may be measured for each bottle by a simpler and cheaper mechanism than those at present in use; and the invention consists of a barrel with adjustable piston and valve, in connection with a three-way cock for the sirup and aerated-water pipes, and a swinging handle-lever that opens and shuts the bottle.

In the drawing, A represents the barrel in which the quantity of sirup or other ingredients are measured previous to bottling the same with the aerated water. A sliding and tightly-packed piston, B, is moved forward or back in the barrel by a set-screw, B', and tightening-nut *a*, so that the space formed at the inside of the barrel may be made larger or smaller, according to the quantity of sirup or chemical ingredients that are required for each bottle. The sirup and aerated water enter to the barrel through pipes C and C', which are alternately thrown in communication with the barrel, or shut off entirely from the same by a three-way cock, D. The sirup and aerated waters pass through a perforation, *b*, of the piston to the handle-lever E that opens and closes the bottle to be filled. A ball-valve, *d*, and upward-curved guards *e*, serve to close the perforation of the piston.

After the chamber of the barrel has been filled with the sirup, the three-way cock is

turned to admit the aerated water, which carries the sirup along, and forces the same with the water, by the pressure of the carbonic-acid gas, into the bottle.

The channel *f* that connects the barrel A with the bottle is opened or closed by the externally pivoted and guided handle-lever E, that is perforated to correspond with the channel-opening. An elastic disk, F, with corresponding perforation *f'*, and recess *g* for the swinging stopper-piece G of the bottle, is rigidly secured in the handle-lever E, and fitted in such a manner to the stopper that the closing motion of the lever closes also the stopper, while the opening of the lever for supplying the aerated water opens at the same time the stopper, and brings the hole at the top of the same in line with the channel-opening, and the perforations of the lever and elastic disk.

The swinging motion of the lever E, to produce the simultaneous opening and closing of the bottling-machine, is defined by shoulders coming in contact with a lug or stop, *h*.

I reserve myself the right to make a separate application for the construction of the bottle closing device hereafter.

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

1. In a machine for bottling aerated water, the supply-barrel, having a three-way cock for opening and closing the sirup and aerated-water pipes, in combination with an adjustable regulating-piston, having exit channel and valve, substantially as herein set forth and described.

2. In a machine for bottling aerated water, the combination, with the exit-channel *f*, of a swinging and perforated lever, E, and elastic disk F fitted to closing device of bottle, to produce the simultaneous opening and closing of channel *f*, with the opening and closing of bottle-closing device, substantially as specified.

GEORGE WENKER.

Witnesses:

CHARLES ETSCHMANN,  
CHARLES ROCK.