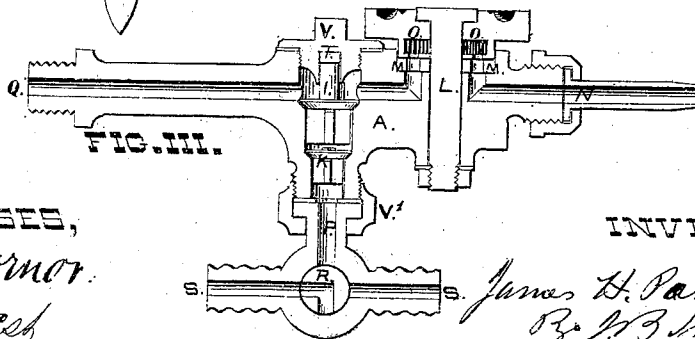
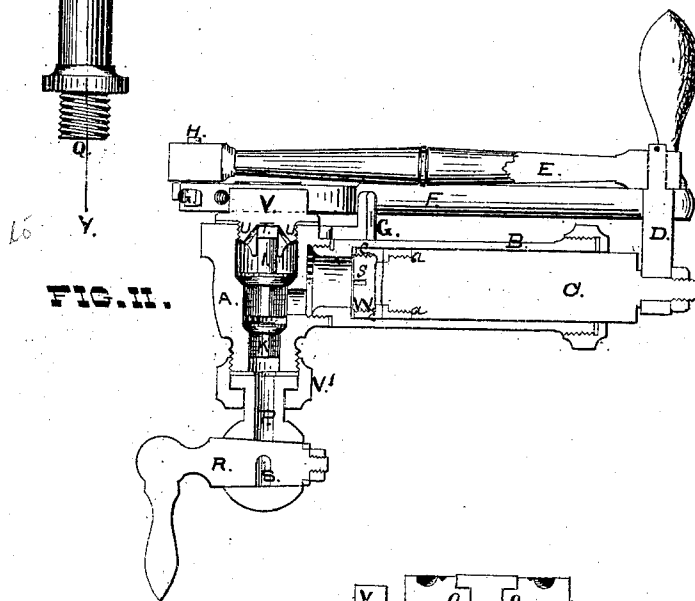
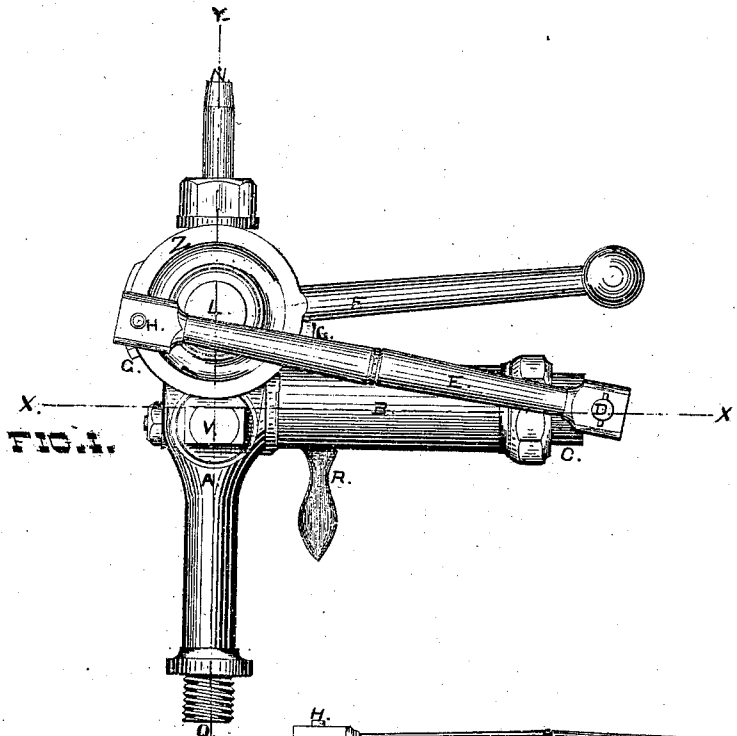


J. H. PARKHURST.
Bottle-Fillers.

No. 131,457.

Patented Sep. 17, 1872.



WITNESSES,
N. M. Hornor.
Geo. R. West

INVENTOR.
James H. Parkhurst
By W. B. Smith
his atty.

UNITED STATES PATENT OFFICE.

JAMES H. PARKHURST, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN BOTTLE-FILLERS.

Specification forming part of Letters Patent No. 131,457, dated September 17, 1872.

To all whom it may concern:

Be it known that I, JAMES H. PARKHURST, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain Improvements in Sirup-Gages, of which the following is a specification:

The nature and object of the invention are to arrange a sirup-gage so as to fill soda-bottles with sirup and soda, and measure the sirup so as to throw just the amount required into the bottle.

Description of the Drawing Forming Part of this Specification.

Figure 1 is a top view of the gage; Fig. 2, a sectional view in line X X, Fig. 1; and Fig. 3, a sectional view in line Y Y, Fig. 1.

General Description.

A is the main part of the gage; B, the pump to measure and throw the sirup into the bottle; C, the plunger; D, stem running from plunger to pitman E; F, shank and handle which operate the pump; G, G, screws which regulate the throw of handle F; H, pitman-riquet on handle F for pitman E; I, valve; K, valve; L, bolt which holds handle F in place; M, packing under handle F; N, hole through which gas or water may pass to the bottle; O, passage-way for gas or water; P, passage-way for sirup; Q, passage-way to the bottle; R, three-way cock; S S, passages for different kinds of sirup to the bottles, as may be desired, by turning the cock in either direction; T, rubber-spring on top of valve I and under nut to hold valve I down in place; U U, holes in the top of nut V from valve I to spring T. This three-way cock is held in position by stuffing-box V¹.

To operate this apparatus, the pump being discharged, take hold of the handle F, and, as it is turned round, the pump-plunger is drawn back and the sirup follows up; valve K opens to let it pass into and fill the pump; then push the handle round again, and that forces the plunger down in the pump and discharges the sirup into the bottle, which is placed in proper position to receive it, and the holes in the handle F turn so as to fit on over those in the

main part of the apparatus, and the gas or soda-water passes in and fills the bottle. Then turn the handle F again and the pump is filled, another bottle is put in position, and it is discharged again same as in the first instance. The soda cannot come in contact with the sirup in the pump. It is kept by means of the valve I distinct and separate. The valve K closes as the plunger in the pump is forced down to throw the sirup into the bottle.

It will be observed that by placing the wrist-pin H, connecting the cut-off Z with the pitman, directly in line with the prolongation of the handle F, the latter will be in the position shown in Fig. 1, removed from the bottle at the end *g* of the tube A, so that danger of injury to the hand of a person operating the handle will be entirely obviated.

a (see Fig. 2) is a cup-shaped packing, provided with a hole at its center, placed on the inner end of the piston C. *c* is a similarly-formed packing perforated at its center, its base abutting against the base of the packing *a*. *s* is a screw, the head of which fits in the cup-shaped cavity of the packing *c*, the screw *s* passing through the packings *c* and *a* and into the piston C. By means of this construction the packing is made to expand and tightly fit the barrel B by means of the screw *s*.

Claims.

I claim as new and of my invention—

1. The tube A provided with a passage, Q, for gas or mineral water, in combination with the pump and three-way cock R having the passages S S P, by means of which two different kinds of sirup may be drawn for bottling by reversing the handle of the three-way cock, as set forth.

2. The piston C and pitman E, in combination with the handle F, cut-off Z, and wrist-pin H, when the latter is situated in the line of prolongation of the handle, as and for the purpose set forth.

JAMES H. PARKHURST.

Witnesses:

W. M. HORNOR,
J. B. SMITH.