(No Model.)

E. S. FERRY.

APPARATUS FOR DISPENSING CARBONATED BEVERAGES.

No. 548,751. Patented Oct. 29, 1895.

Fig. 1.

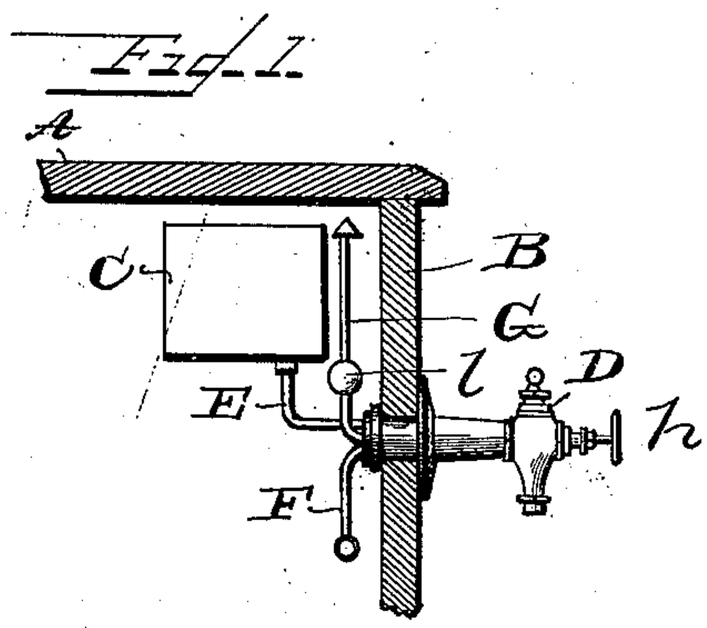


Fig. 2.

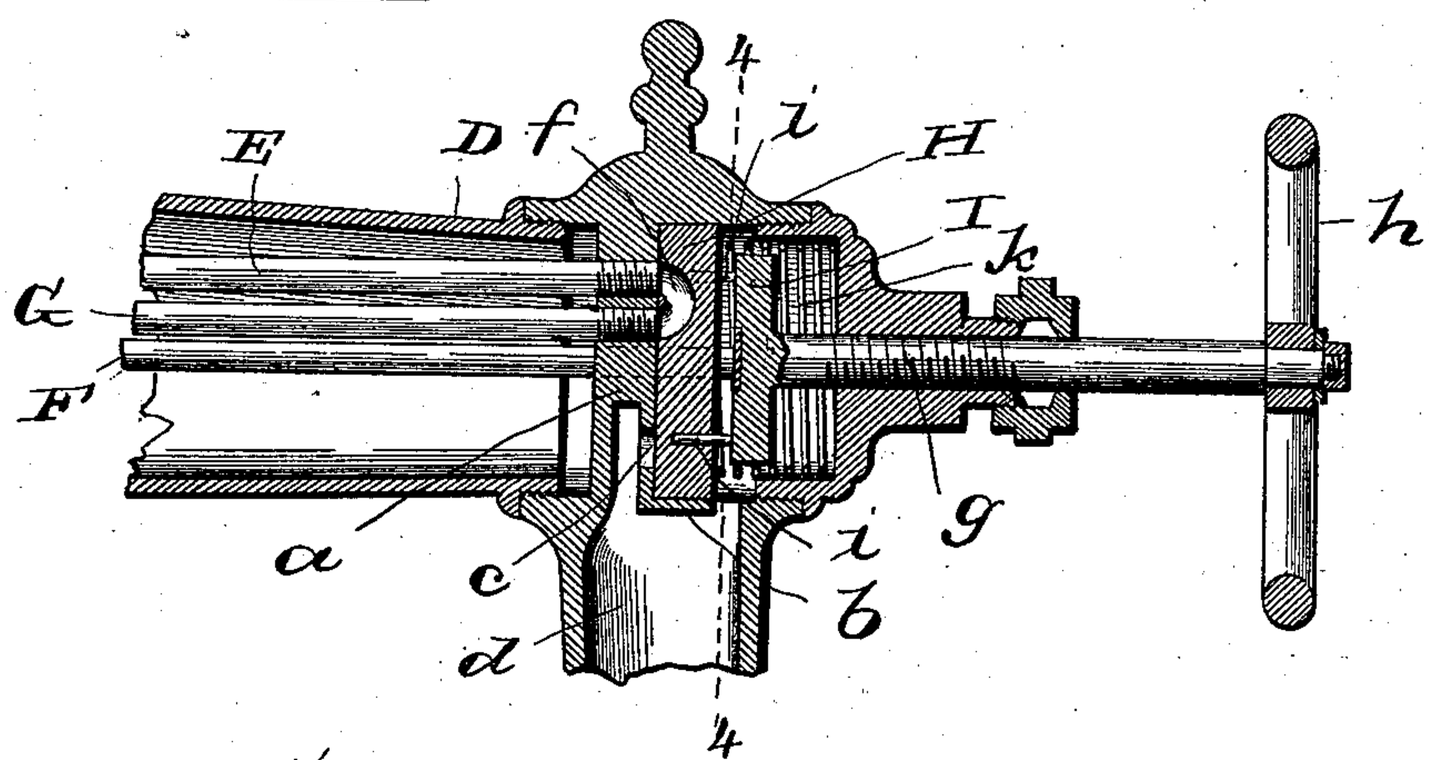


Fig. 3.

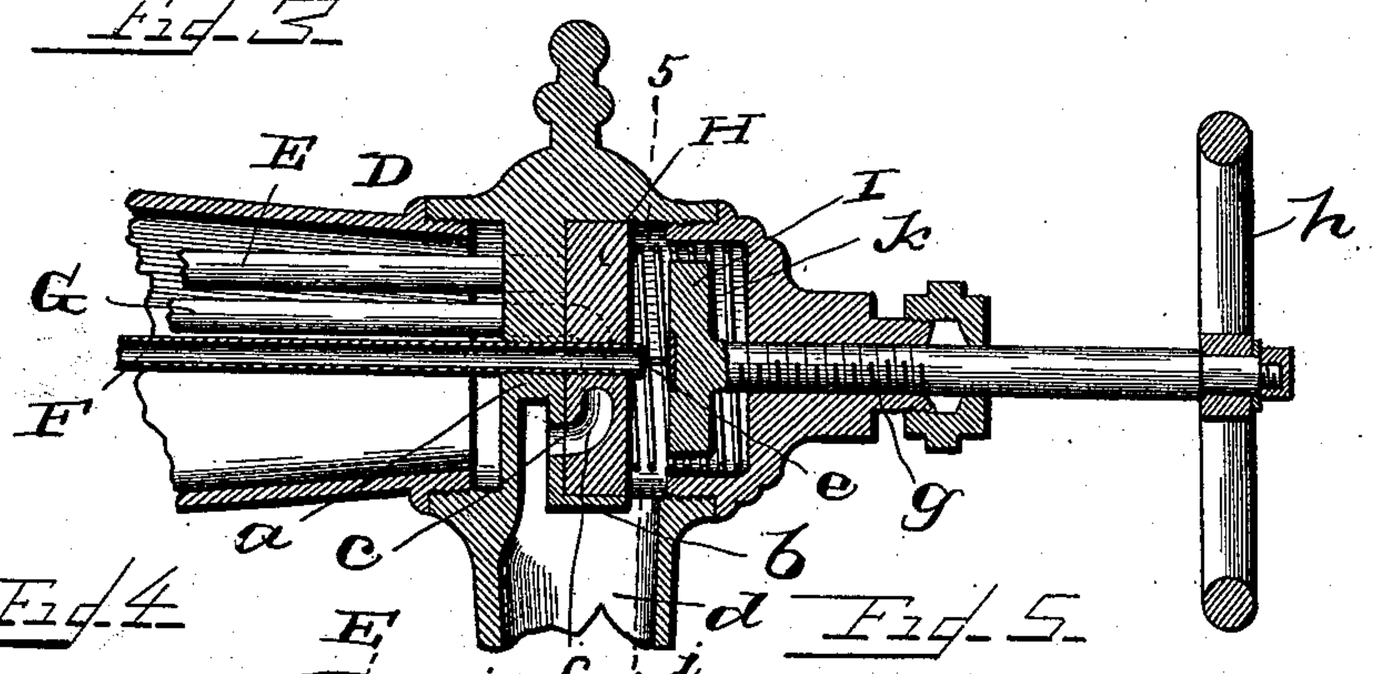


Fig. 4.

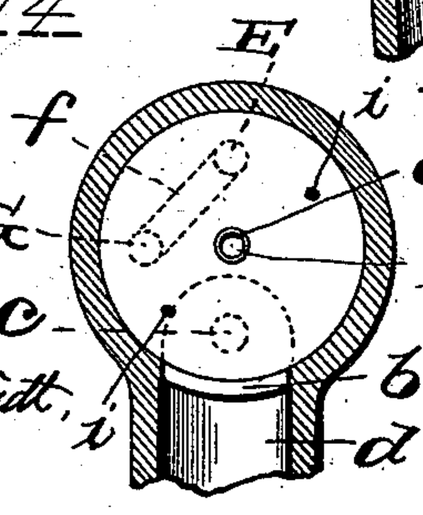
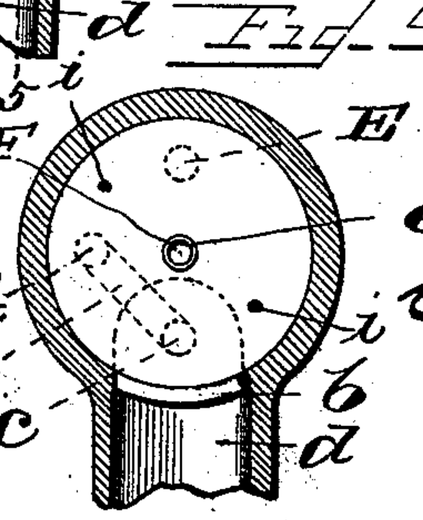


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

ERVIN S. FERRY, OF MOUNT VERNON, NEW YORK.

APPARATUS FOR DISPENSING CARBONATED BEVERAGES.

SPECIFICATION forming part of Letters Patent No. 548,751, dated October 29, 1895.

Application filed April 12, 1895. Serial No. 545,509. (No model.)

To all whom it may concern:

Be it known that I, ERVIN S. FERRY, a citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Apparatus for Dispensing Carbonated Liquids; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to apparatus for dispensing soda-water and other carbonated liquids, and has especial reference to the construction of a draft-faucet, whereby a measured quantity of flavoring solution is supplied to each bottle or glass of carbonated liquid.

The invention will be fully disclosed in the following specification and claims.

In the accompanying drawings, which form part of this specification, Figure 1 represents a side elevation of my invention applied to a dispensing apparatus, the front and top of which are shown in section; Fig. 2, a vertical longitudinal section of part of the draft-faucet in closed position; Fig. 3, a like view of the same in position to discharge a carbonated liquid; Fig. 4, a transverse section on line 4 4, Fig. 2; and Fig. 5, a like view on line 5 5, Fig. 3.

Reference being had to the drawings and the letters thereon, A indicates the top, and B the front, of a dispensing apparatus commonly used for dispensing soda-water and other carbonated liquids; C, the flavoring-reservoir; D, the draft-faucet; E, the pipe communicating with the flavoring-reservoir; F, the pipe for supplying carbonated liquid, and G the pipe for containing a measured quantity of a flavoring solution.

The head of the faucet is provided with a transverse partition *a*, into which the pipes E and G are screwed from the rear side, and the front side forms a seat for the disk-valve H, and is provided with a lug *b* at its lower end to support said valve H, with a central opening for the pipe F to pass through, and with a discharge-port *c*, through which the flavoring solution passes to the nozzle *d* of the faucet.

The disk-valve H is provided with a central opening *e*, through which the pipe F extends, forms the axis of the valve, and projects beyond the outer surface of the valve, as shown in Fig. 3, and with an elongated port *f*, which, when the valve is in the position shown in Figs. 2 and 4, communicates with the pipes E and G and with the pipe G and the port *c* when in the position shown in Figs. 3 and 5.

The outer end of the discharge-pipe F is controlled by a compression-valve I, operated by a screw-threaded stem *g* and handle *h*, and said valve is connected to the disk-valve H by studs or pins *i i*, whereby the two valves are operated synchronously, so that as the valve I is withdrawn from the end of pipe F to admit of the flow of carbonated liquid the disk-valve H is turned on its axis to cause the port *f* to register with the pipe G and with the port *c* in the partition *a* and cause the flavoring solution in pipe G to flow down and mingle with the carbonated liquid in the nozzle *d* of the faucet D.

The disk-valve H is held to its seat on the partition *a* by a coiled spring *k*, which surrounds the valve I.

The pipe G extends up to about the top or upper end of the reservoir C and is provided with a bulb *l* of a capacity to hold the quantity of the flavoring solution required to flavor the carbonated liquid drawn to fill a bottle, glass, or other vessel, and when the valve I is moved in upon and closes the end of the pipe F the disk-valve H is turned upon its axis by the valve I, so that the port *f* communicates with the pipes E and G and the flavoring solution from the reservoir C flows down pipe E into pipe G and supplies a charge for the next draft from the faucet.

It will be observed that the pipe G with its bulb *l* is always charged automatically with the flavoring solution so soon as one charge has been drawn and is ready to be supplied to the carbonated liquid in measured quantity.

Having thus fully described my invention, what I claim is—

1. A dispensing faucet provided with a transverse partition having a port therein for the discharge of a flavoring solution, pipes connected to said partition for supplying the flavoring solution in measured quantity, a disk valve seated on the partition and provided with a passage through which said pipes

communicate and which registers with the port in the partition, and a pipe supplying carbonated liquid, in combination with a valve controlling the latter pipe and connected to the disk valve.

2. A dispensing faucet provided with means for supplying a flavoring solution, a disk valve for controlling the discharge of said solution, and a pipe supplying carbonated liquid and extending through said disk-valve, in combination with a valve controlling the latter pipe and connected to the disk-valve.

3. A dispensing faucet provided with a transverse partition, a valve for discharging a flavoring solution and a valve for controlling the discharge of carbonated liquid, in combination with a reservoir for said flavoring solution, a pipe communicating with said reservoir and a pipe separate from the reservoir and communicating with the former pipe through a passage in the valve which controls the discharge of the solution and said pipes connected to said partition.

4. A dispensing faucet provided with pipes for supplying a flavoring solution and a port for discharging the same a transverse partition to which said pipes are connected, and a valve having an elongated passage to register alternately with both of said pipes and with one of said pipes and with said port, in combination with a pipe for supplying carbonated liquid, and a valve for controlling said pipe and connected to the former valve.

In testimony whereof I affix my signature in presence of two witnesses.

ERVIN S. FERRY.

Witnesses:
JACOB LZABO,
CHARLES F. DAVIES.