

C. A. GEDDES.
APPARATUS FOR DISPENSING SODA WATER.

No. 569,633.

Patented Oct. 20, 1896.

Fig. 1.

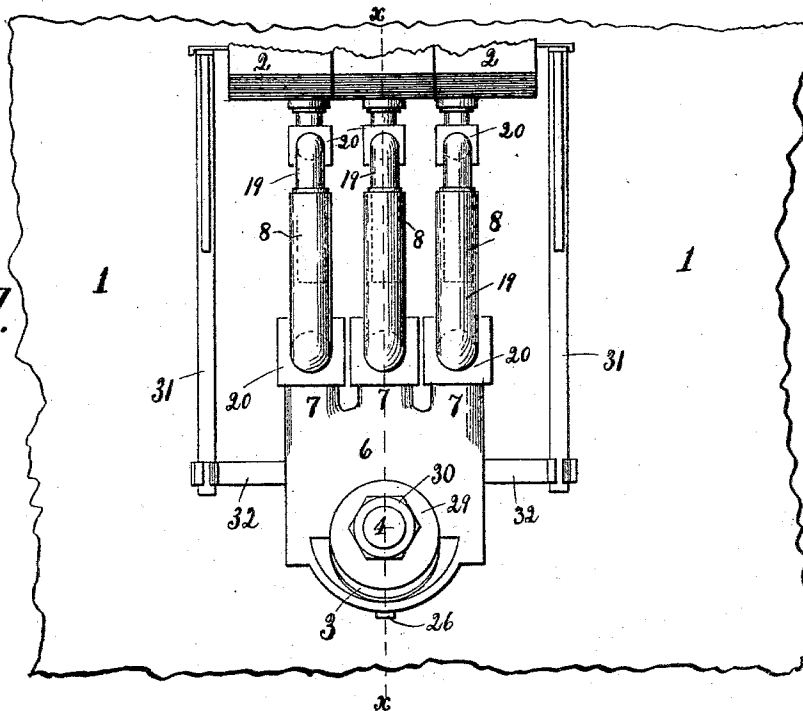


Fig. 2.

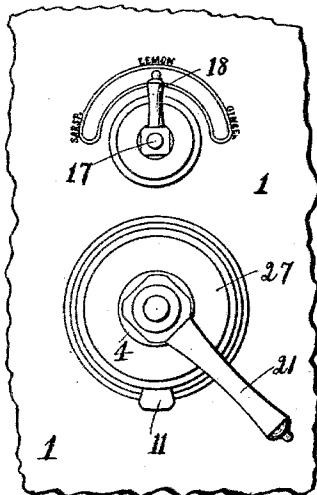


Fig. 5.

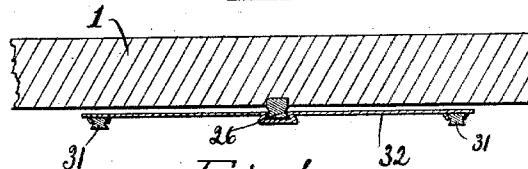
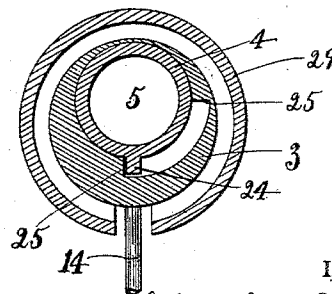


Fig. 6.



Witnesses:

Walter C. Pusey.

Ira S. Heller

Inventor.

Charles A. Geddes,

per Joshua Pusey,
Attorney.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

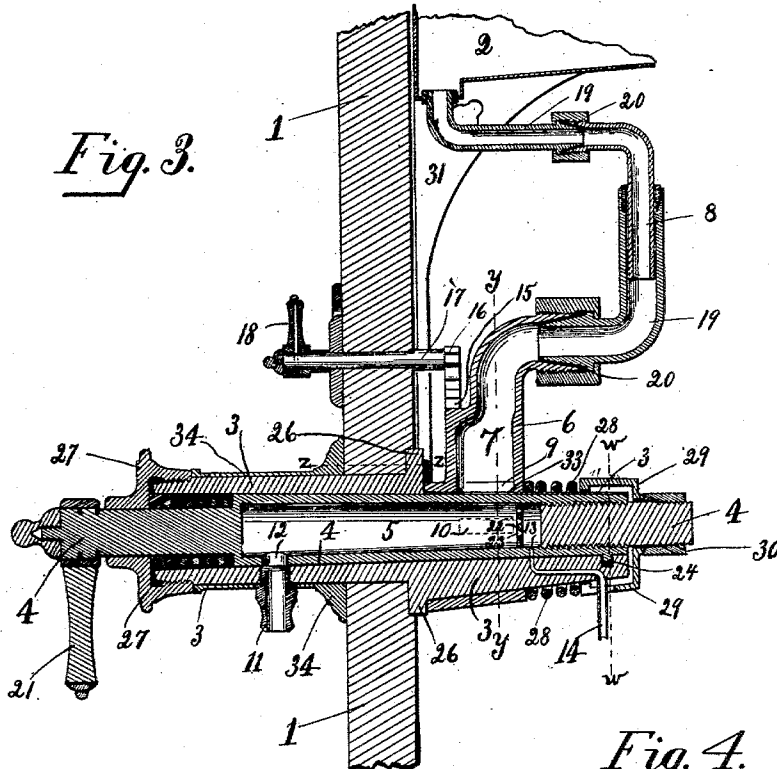
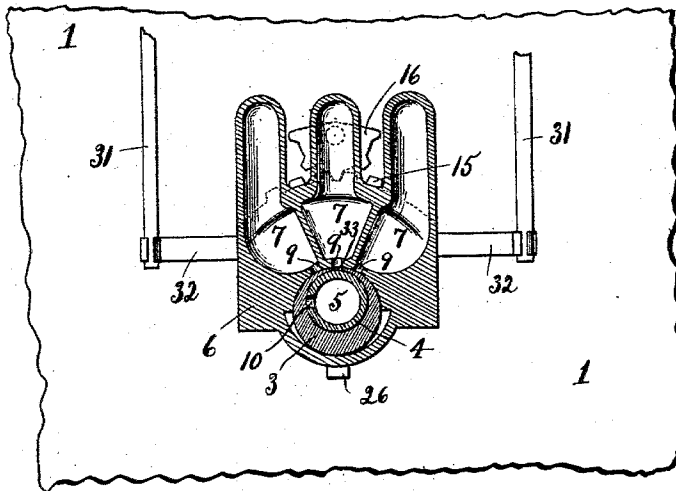


Fig. 4.



Witnesses:

Walter C. Pusey
Ira S. Heller

Inventor.

Charles A. Geddes,
per Joshua Pusey,
Attorney.

UNITED STATES PATENT OFFICE.

CHARLES A. GEDDES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE KIRBY MANUFACTURING COMPANY, OF CAMDEN, NEW JERSEY.

APPARATUS FOR DISPENSING SODA-WATER.

SPECIFICATION forming part of Letters Patent No. 569,633, dated October 20, 1896.

Application filed December 5, 1895. Serial No. 571,111. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. GEDDES, a citizen of the United States, residing at the city and county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Dispensing Soda-Water, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, of which—

Figure 1, Sheet 1, is a rear elevation. Fig. 2 is a front elevation. Fig. 3, Sheet 2, is a vertical section on line *x x*, Fig. 1. Fig. 4, Sheet 2, is a full vertical section as on line *y y*, Fig. 3. Fig. 5, Sheet 1, is a full section as on line *z z*, Fig. 3. Fig. 6, Sheet 1, is a full enlarged sectional detail as on line *w w*, Fig. 3.

An object of my invention is to provide a simple construction and combination of mechanism for supplying to one common faucet of a soda-fountain or the like several different kinds of flavors of syrups or other liquids, and also to cause the inflow of the usual gas-charged water into the faucet in a manner whereby the discharge of the syrup and water from the latter will be in effect simultaneous.

The invention consists of the combination, in a soda-fountain, of a series of syrup-containing receptacles and a faucet having a plug or stem with a cavity therein, and an orifice in the wall leading into the cavity, each of said receptacles having an exit normally closed by said plug; but the orifice in the latter may be readily brought to register with any one of said exits, and thus allow the influx of the syrup into the cavity in the plug by suitably turning the latter, the nozzle of the faucet communicating with the cavity in the plug being, by means of devices adapted for the purpose, closed when said cavity is being filled with the syrup, and is opened by turning the plug to a certain position, at the same time shutting off the exit from the said receptacle.

The invention consists, finally, in certain combinations and details of mechanism or devices which will be hereinafter fully described and clearly pointed out.

Referring to the accompanying drawings,

forming a part of this specification, 1 indicates the front wall of the soda-fountain, usually a slab of marble or the like; 2, the jars for containing the syrups; 3, the casing of the faucet which extends through the wall 1.

4 is the plug, which is made tubular for a part of its length in order to provide a cavity 5.

6 is a segment located within the fountain and journaled on the casing. This segment contains a series, three in the present instance, of receptacles 7, the upper part of each of which communicates, by way of a flexible pipe connection 8, with a corresponding one of the jars 2. In the bottom of each of these receptacles is an exit-opening 9, and in the side of the wall of the cavity of the plug is a similar orifice 10, which is normally not in register with either of the exits 9, and so the liquid in the receptacles 7 cannot escape into the cavity of the plug.

11 is the vertically-extending delivery-nozzle of the faucet, through which the soda-water is discharged.

In the same vertical plane with the nozzle is an orifice 12 in the wall of the front end of the plug-cavity 5. 13 is an orifice in the rear end of the wall of the latter, and in proximity thereto is a pipe 14, which leads from the usual gas-charged-water container. (Not shown.) Segment 6 is provided with teeth 15, with which gears a pinion-section 16, carried on the end of a rotatable shaft 17, that extends through the front wall of the fountain and has on its outer extremity a handle 18.

The pipe connection 8 may be a flexible tubing of suitable substance, such as rubber, that will not affect the taste of the syrups or other liquids that may be contained within the jars 2. I prefer, however, to make this connection in the manner illustrated in the annexed drawings, that is to say, of metallic pipe-sections 19 with ground or suitably-packed joints 20, which, while permitting the necessary movements, will not allow the escape of the liquid through the joints.

Having thus described the leading features of my invention, I shall now describe its manner of use and mode of operation.

Assuming that the jars are charged with the syrups, the several receptacles 7 of seg-

ment 6 will be flowed by the downflow through the pipe 8, each with its particular kind or flavor of syrup. When it is desired to draw, say, a glass of the soda-water, the segment 6 is rotated by turning the handle on the end of the shaft 17 in a manner to bring the required one of the receptacles 7 into the vertical position, that is, so that its exit 9 will be directly over, so as to register with a necessary opening 33 in the top of the casing 3.

In order to determine with precision the points to which the handle 18 shall be shifted, I find it convenient to mark at proper intervals the title of the several syrups upon the face of the front of the fountain, such, for example, as "Ginger," "Lemon," "Sarsp.," &c., as seen in Fig. 2.

Upon turning the faucet-plug by means of a convenient handle 21 until the orifice 10 is brought to register with the exit of the aforesaid one of the receptacles of the segment the syrup therein will flow into and fill the cavity 5.

The relative arrangement of the orifices of the latter is such that upon further turning the plug the exit from the receptacle of the segment will be cut off, and the orifice 13 will be brought to register with the pipe 14, leading to the gas-charged-water container, and about simultaneously therewith the exit-opening 12 of the forward part of the cavity will register with nozzle 11. Thus the syrup and water will be discharged together through the nozzle into the glass placed beneath it.

I prefer to use adjacent to and in front of the faucet-chamber a partition 22 with a number of small perforations 23 for the purpose of more thoroughly commingling the soda-water and the syrup.

In order to limit the rotation of the plug at the proper points for bringing the same into the positions for causing the orifice 10 to register with the exit 9 of a receptacle 7, and subsequently to cause orifices 12 and 13 to register with the nozzle and the water-pipe 14, respectively, I provide a lug 24 on the side of the rear portion of the plug, and the casing 3 surrounding the latter is suitably cut away, as shown in Fig. 6, in order to form end stops 25 for the lug 24 to come against. When the plug is turned in such position as to bring the lug midway between the said stops or a certain distance therefrom, all of the orifices in the walls of the cavity 5 will be closed.

As a convenient means of securing the casing 3 to the marble wall I have devised the following: Lugs 26, extending from the casing, are sunk into the rear of the marble 1 in order to prevent the casing from turning. A nut 27, which has an opening through which the plug passes, is screwed on the forward end of the casing and bears against the forward end of a sleeve 34, whose rear expanded end rests against the front of the wall 1 and thus clamps the casing 3 firmly to the marble wall. It will thus be seen that the

device may be readily removed from the fountain by simply taking off the handle 21 and nozzle 11, unscrewing nut 27, and sliding the casing backward through the marble, pipe 8 being, of course, first disengaged.

I also provide a means for maintaining the segment 6 in place, that it may not slide laterally upon the casing. This consists in placing around the rear end of the casing 3, back of the segment, a helical spring 28, which presses against the segment, and whose tension is regulated by means of a sliding sleeve 29, which is in turn adjusted by a nut 30, screwed on the end of the plug 4. (See Fig. 3.)

As a means for supporting the jars 2 I employ readily-detachable brackets 31, upon which said jars are supported. The lower ends of these brackets are dovetailed into a transverse bar 32, as seen in Fig. 5, which bar is grooved so as to be easily slid over a corresponding tongue upon lug 26, from which it may be readily detached by merely raising it and sliding it from its engagement with the lug. I also make the upper side of casing 3 much thinner to the rear of the marble. This is for the purpose of preventing any great amount of syrup from remaining in the opening 33 in the casing, and thus mixing with the syrup next brought into use.

My invention is not limited to the precise construction and arrangement shown and described, as the same may be considerably varied by a mechanic skilled in the art to which it appertains without departing from the essential principles of the invention.

Having thus described the construction and mode of operation of my invention, I claim as new and desire to secure by Letters Patent—

1. In an apparatus for dispensing soda-water or the like, the combination of the series of receptacles provided each with an exit-opening, the rotatable plug having a cavity therein, the discharge-nozzle, the pipe leading from a gas-charged-water container or the like, together with the orifices in the wall of said cavity of the plug, adapted to communicate respectively with the nozzle, the exit-openings of the said receptacles and the said pipe when the plug is suitably rotated, substantially in the manner and for the purposes hereinbefore set forth.

2. In an apparatus for dispensing soda-water or the like, the combination of the movable segment, a series of receptacles therein, each provided with an exit-opening, the rotatable plug having a cavity therein, the discharge-nozzle, and the orifices in the wall of said cavity adapted to communicate respectively with the nozzle, and the exit-opening of any one of the series of exit-openings of said receptacles when the plug is suitably rotated, substantially as and for the purpose set forth.

3. In an apparatus for dispensing soda-water or the like, the combination of the series

of syrup-jars, the rotatable segment, the series of receptacles therein, each provided with an exit-opening, the pipe connection between said receptacles and jars adapted to allow the rotation of the said segment, the discharge-
5 nozzle, the rotatable plug having a cavity therein, and the orifice in the wall of said cavity adapted to communicate with the exit-openings of the said receptacles when the plug
10 is suitably rotated, substantially as and for the purposes set forth.

4. In an apparatus for dispensing soda-water or the like, the combination of the series of receptacles each provided with an exit-
15 opening, the discharge-nozzle, the pipe lead-

ing to a source of supply of gas-charged water or the like, the rotatable plug having a cavity therein, and the orifices in the wall of said cavity, adapted to communicate respectively with the nozzle, the exit-openings of the
20 said receptacles, and the aforesaid pipe, all constructed and adapted to operate substantially as and for the purposes set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

CHARLES A. GEDDES.

Witnesses:

WALTER C. PUSEY,
JOSHUA PUSEY.