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DISPENSING APPARATUS.

APPLICATION FILED APR. 26, 1921.

1,398,348. Patented Nov. 29, 1921.

Fig. 1.

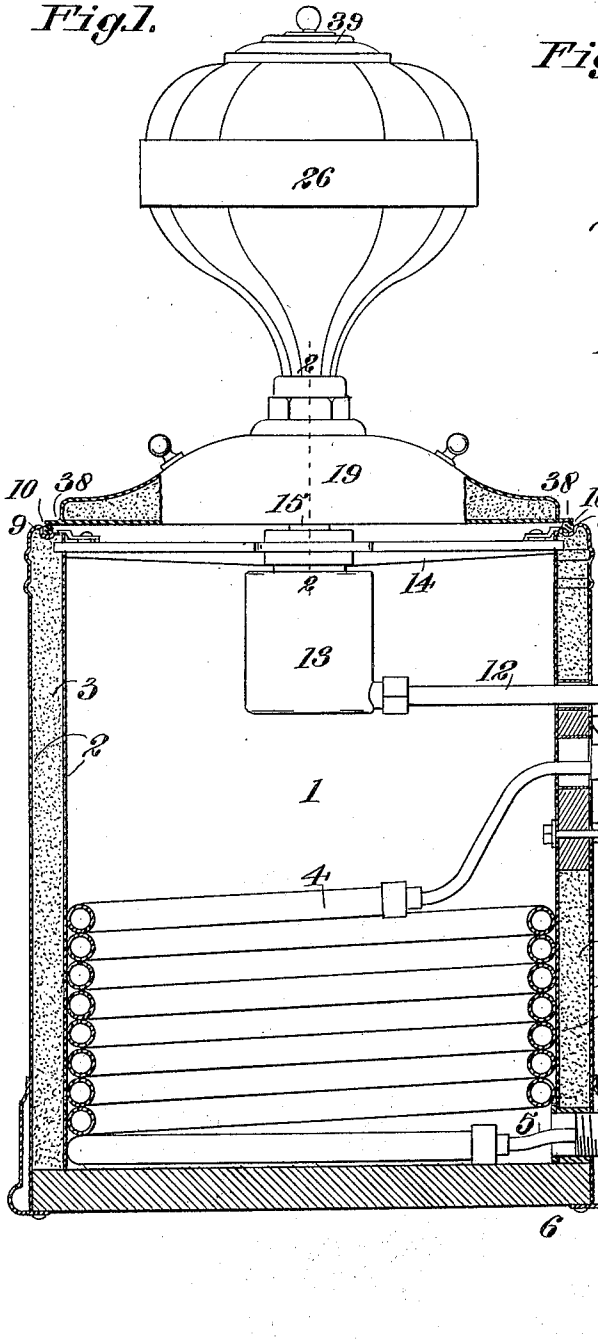


Fig. 2.

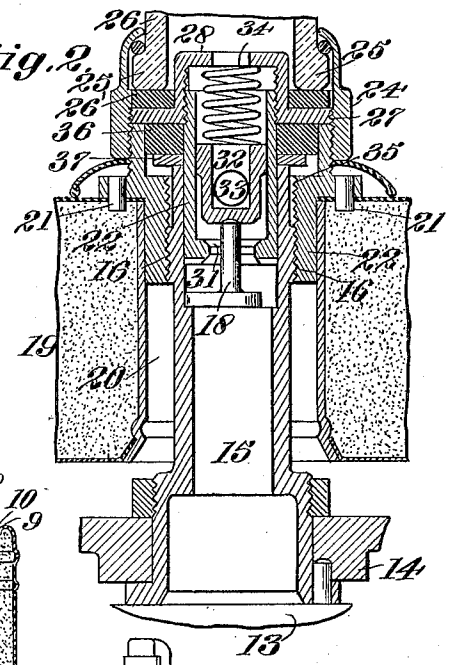
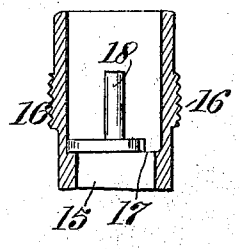


Fig. 3.



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UNITED STATES PATENT OFFICE.

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DISPENSING APPARATUS.

1,398,348. Specification of Letters Patent. Patented Nov. 29, 1921.

Application filed April 26, 1921. Serial No. 464,654.

To all whom it may concern:

Be it known that we, ANTON WEBER, LEON VOORSANGER, and ARTHUR SELLER, citizens of the United States, residing the said WEBER, at Oakland, in the county of Alameda and State of California, and the said VOORSANGER and SELLER at the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Dispensing Apparatus, of which the following is a specification.

This invention relates to a dispensing apparatus particularly designed for the dispensing of soft drinks such as root beer, fruit syrup and the like, without requiring the installation of expensive fountain equipment.

One of the principal objects of this invention is to provide a portable apparatus which is distinctly ornamental in its appearance, and from which flavored beverages are dispensed at a relatively cool temperature.

Another object is to provide an apparatus formed with a cooling chamber or ice-pocket normally closed by a removable cover carrying a syrup or flavor decanter, and equipped with means whereby the flow of syrup or flavor from the decanter is interrupted on the removal of the cover from the chamber.

A further object is to provide a novel form of mounting for the decanter, and an efficient and simple form of detachable coupling between the syrup or flavor conducting pipe and the decanter, and to provide an air tight connection between the cover and chamber.

With the above mentioned and other objects in view, the invention consists in the novel construction and combination of parts hereinafter described, illustraed in the accompanying drawings, and set forth in the claims hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

To more fully comprehend the invention, reference is directed to the accompanying drawings, wherein:—

Figure 1 is a view partly in vertical section of the preferred embodiment of our invention.

Fig. 2 is an enlarged detail section of the valve couplings taken on line 2—2 of Fig. 1.

Fig. 3 is a view in detail of the valve lift.

Referring more particularly to the several views of the drawings wherein like characters of reference designate corresponding parts, 1 indicates a container of the double wall type 2, and between the walls of which is positioned an insulation 3. Within the lower portion of the chamber of the container 1 is spirally coiled a pipe 4, the lower end of which connects with a pipe 5 extending from the container through an opening 6, normally closed by an ornametal elbow 7 of a diameter larger than the pipe 5, and from one point of which the terminus of said pipe extends. The terminus of the pipe 5 is adapted to be connected to a fluid supply under pressure, which may be either plain or carbonated water, or any other suitable fluid used in making of what are commonly termed "soft drinks." The chamber of the container 1 is adapted to receive ice or other cooling medium, not shown, which is deposited within the coil of the pipe 4. The upper end of the pipe 4 extends exteriorly through the container wall, and is attached to a mixing valve 8 of any suitable construction.

The upper end of the container 1 is open for its full area, and the upper wall thereof is formed with an annular groove 9 for receiving the annular gasket 10. Communicating with the mixing valve 8 through a controlling valve 11 is a syrup or flavor supply pipe 12 leading from a small sump 13 disposed preferably centrally within the upper end of the cooling chamber, the sump being supported by a spider 14 carried by the upper end of the container walls. Extending upwardly to a point above the periphery of the walls of the container 1, and supported by the spider 14 with its lower end communicating with the sump 13 is a tubular lock stem or pipe 15, the upper end of which is exteriorly threaded as at 16, and the interior of which is provided with a seat 17 mounting a valve lift pin 18 disposed vertically preferably within the center of the sump 15.

The upper open end of the chamber of the receptacle 1 is normally closed by a double walled cover 19, and which cover is provided in its center with a vertically disposed pas-

sage 20 adapted to receive the lock stem 15 when the cover is in position to close the container. Secured to the upper end of the passage and attached to the cover 19, preferably by pins 21, is a sleeve 22 interiorly threaded at its lower end, and threaded exteriorly on its upper enlarged end to receive a union nut 24 for engaging over the bead 25 at the outlet or mouth of a suitable decanter 26, supported by the cover 19. The nut 24 detachably secures the decanter to the cover 19 with its bead resting on a washer 26', which in turn rests on the flanged portion 27 of a ported thimble 28 resting on the upper edge of the exteriorly threaded portion of the sleeve 22. Depending from, and threaded into the under portion of the thimble 28 is a valve cage 29 provided with an outlet 30 above which is formed a seat 31, and said cage mounts a vertically reciprocating valve 32 having a port 33 in its side wall. A coiled compression spring 34 connecting on the valve 32 and contacting with the under face of the thimble 28 normally maintains the lower end of the valve 32 on its seat 31, and in closed position. Within an annular chamber 35 surrounding the cage 29 and formed in the member 22 is an elastic cushion washer 36 preferably of rubber, and a friction or compression washer 37 preferably of leather. When the cover is in position, as in Figs. 1 and 2, the threaded end 16 of the lock stem 15 is received within the interiorly threaded end of the lock sleeve 22, and a rotating movement of the cover 19 will cause a tight interlocking of the respective parts until such time as the peripheral flange 38 on the cover 19 engages the gasket 10. During this operation, the upper end of the lock stem 15 will contact with the washer 37 and force the same in tight contact with the member 36 compressing the same. This operation also causes the lift 18 to engage the under face of the valve 32 and raise the same against the tension of the compression spring 34, which permits of the flow of the flavor or syrup from the decanter 26 into the sump 13.

It will be apparent that on the removal of the cover 19 that the decanter is also removed therewith, and the rotating motion imparted to the cover will raise the lock sleeve on the stem 15 to a point permitting the valve 32 to engage the seat 31 and interrupt the connection between the decanter 26 and the interior of the lock stem, precluding the flow of syrup or flavor from the decanter when it is desired to remove the cover to re-ice the container. If desirable, the upper end of the decanter 26 may be formed with an opening normally closed by a removable cover 39 which permits of the replenishing of the syrup or flavor supply of the decanter without detaching the decanter from the cover.

We claim:—

1. A beverage cooling and dispensing apparatus comprising a cooling chamber, a removable cover therefor provided with a passage therethrough, a decanter detachably carried by the cover to extend upwardly therefrom and disposed with its discharge communicating with said cover passage, said decanter and cover removable as a unit from said chamber, a valve controlled cooling pipe within the chamber and disposed with its inner end to coöperate with said cover passage and a portion of said pipe extending exteriorly of the chamber, a threaded coupling connection between the cover passage and the inlet end of said cooling pipe, whereby on the rotation of said cover the same is capable of securing to and removal from the chamber and a valve adapted for interrupting the flow of liquid from the decanter when the cover and decanter are removed as a unit from the chamber.

2. A beverage cooling and dispensing apparatus, comprising a cooling chamber, a removable cover therefor provided with a passage extending vertically through the center thereof, a decanter separate from and detachably secured to the cover and disposed with its discharge communicating with said cover passage and removable from the chamber as a unit with the cover, a valve controlled cooling pipe in the chamber with its inlet end disposed within said cover passage and its outlet end extending exteriorly of the chamber, and a separable valve controlled coupling between the inlet end of the cooling pipe and discharge end of the decanter whereby the flow of fluid from the decanter is interrupted on the removal of the cover from the chamber.

3. A beverage cooling and dispensing apparatus, comprising a cooling chamber, a removable cover therefor provided with a passage extending vertically through the center thereof, a transparent decanter separate from and detachably secured to the cover and disposed with its discharge communicating with said cover passage and removable from the chamber as a unit with the cover, a valve controlled cooling pipe in the chamber with its inlet end disposed within said chamber, a two part separable coupling between the inlet end of the cooling pipe and discharge end of the decanter, part of said coupling carried by the cover and removable from the cooler therewith on an axial rotation being imparted to the cover, and a valve within said coupling for controlling the passage of the fluid therethrough.

4. A beverage cooling and dispensing apparatus, comprising a cooling chamber, a removable cover therefor provided with a passage extending vertically through the center thereof, a transparent decanter detachably secured to the cover and disposed

with its discharge communicating with said cover passage and movable as a unit with said cover, a valve controlled cooling pipe in the chamber with its inlet end disposed within said cover passage and its outlet end extending exteriorly of the chamber, a separable coupling between the inlet end of the cooling pipe and discharge end of the decanter, a valve in said coupling for interrupting the flow of liquid from the decanter, a valve lift within the coupling for engaging the valve to maintain the same open when said coupling is assembled, and a spring acting on said valve to close the same on the removal of the cover and decanter from said cooling chamber and release of pressure by said valve lift.

5. A beverage cooling and dispensing apparatus comprising a cooling chamber, a removable cover therefor provided with a passage therethrough, a decanter carried by the cover and disposed with its discharge communicating with said cover passage, said decanter and cover removable as a unit from said chamber, a pipe within the chamber for receiving the liquid from the decanter and conveying the same through the chamber, a detachable threaded coupling connection between the cover passage and pipe, and adapted for separation on the axial rotation of said cover, a packing between the peripheral edge of the cover and edge of the chamber opening and an annular groove in the upper edge of the chamber wall for receiving said packing.

6. A beverage cooling and dispensing apparatus comprising a cylindrical cooling chamber open at its upper end, a removable cover therefor provided with an opening extending vertically through the center thereof, a decanter, means for detachably securing the decanter to the cover with its outlet disposed to discharge through the opening therein, a cooling pipe in the chamber disposed with one end centrally of the chamber opening, a threaded coupling between the cooling pipe and decanter, and affording a detachable uniting connection for securing the cover and decanter to the chamber and a packing within said coupling.

7. A beverage cooling and dispensing apparatus comprising a cylindrical cooling chamber open at its upper end, a removable cover for closing the opening, said cover provided with an opening extended vertically through the center thereof, a decanter detachably secured to the cover, a threaded member within said passage and into which said decanter discharges, a threaded pipe extending centrally through the chamber opening for detachable connection with the threaded cover member for detachably securing the cover on said chamber, and affording an axis of rotation for the cover on the positioning of the same on or its removal from the chamber, a valve within one of said members, and means for closing the valve on the removal of the cover from the chamber.

8. A beverage cooling and dispensing apparatus comprising a cylindrical cooling chamber open at its upper end, a removable cover for closing the opening, said cover provided with an opening extended vertically through the center thereof, a decanter carried by and detachably secured to the cover, a threaded member within said passage and into which said decanter discharges, a threaded pipe extending centrally through the chamber opening for detachable connection with the threaded cover member for detachably securing the cover on said chamber, on a rotative movement being imparted to the cover, a valve within one of said members, means within the other member for holding the valve open when the cover is positioned on the chamber, and means associated with the valve for closing the same on the removal of the cover from the chamber.

In testimony whereof we have signed our names to this specification.

ANTON WEBER.
LEON VOORSANGER.
ARTHUR SELLER.