

July 12, 1938.

L. A. KLEMM

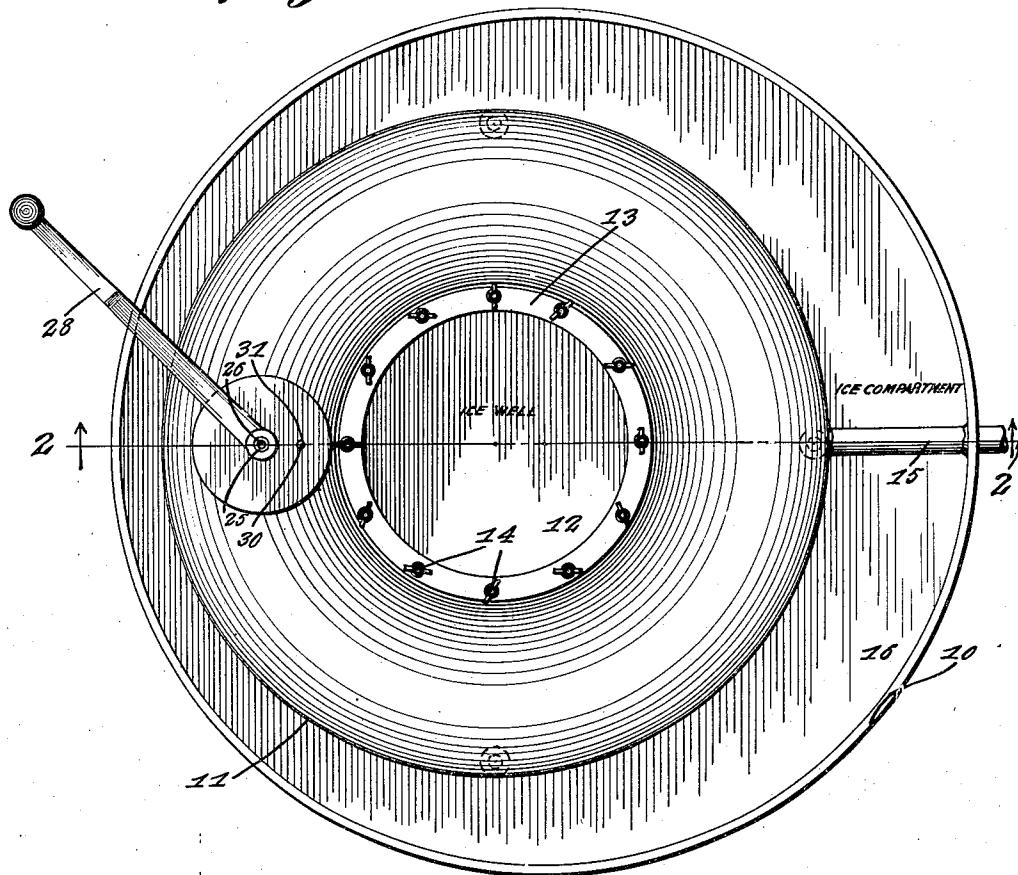
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## LIQUID DISPENSER

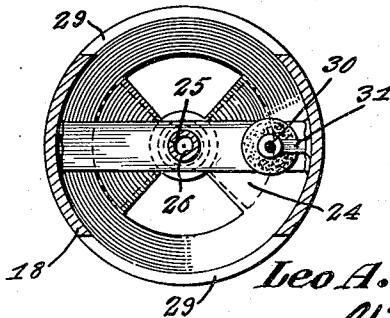
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2 Sheets-Sheet 1

Fig. 1.



*Fig. 5.*



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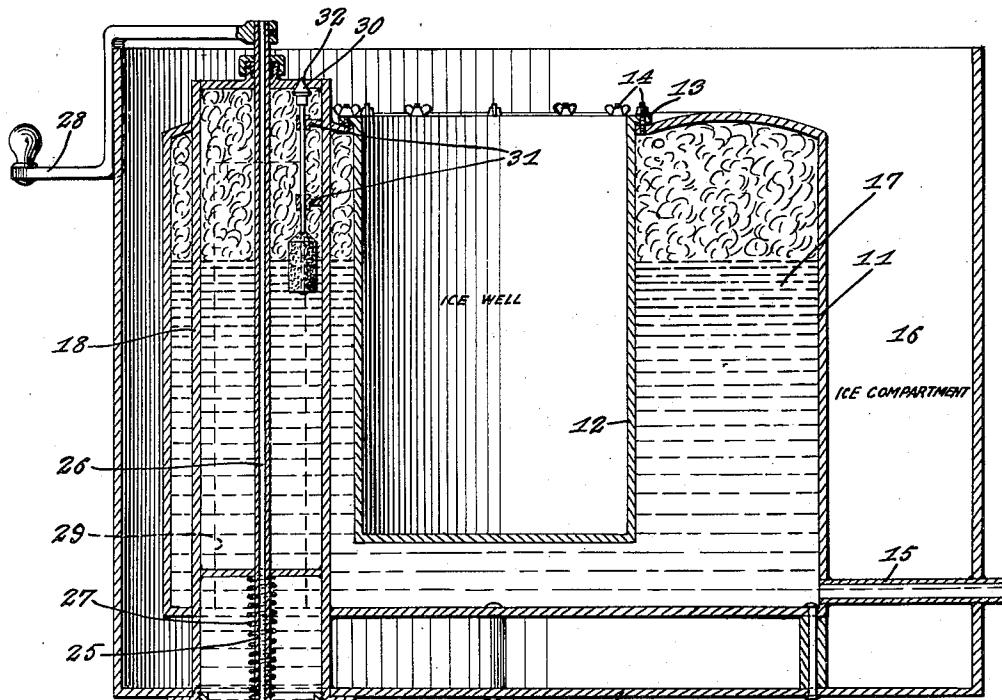
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LIQUID DISPENSER

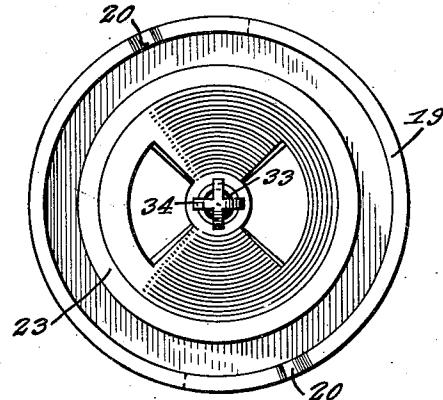
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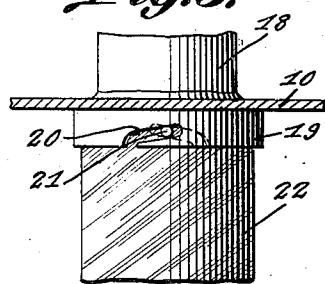
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



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## UNITED STATES PATENT OFFICE

2,123,784

## LIQUID DISPENSER

Leo A. Klemm, Stevensville, Mich.

Application September 7, 1937, Serial No. 162,733

4 Claims. (Cl. 225—40)

The invention relates to a liquid dispenser and more especially to a foam regulating beer glass filler. The primary object of the invention is the provision of a dispenser of this character, wherein a glass or other like receptacle can be filled with beer without the presence of considerable foam at the mouth or open end of the glass or other receptacle, the dispenser being of novel construction and such as to maintain the beer cold so that it will be chilled when dispensed.

Another object of the invention is the provision of a dispenser of this character, wherein the spilling of the beer during the dispensing period is eliminated, thus avoiding waste thereof and at the same time avoiding excess dispensing of such beer.

A further object of the invention is the provision of a dispenser of this character, which is simple in its construction, thoroughly reliable and effective in operation, hand controlled and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention and pointed out in the claims hereunto appended.

In the accompanying drawings:

Figure 1 is a top plan view of the dispenser constructed in accordance with the invention.

Figure 2 is a sectional view on the line 2—2 of Figure 1 looking in the direction of the arrows.

Figure 3 is a detail side elevation showing the manner of coupling a mug, glass or other receptacle to the dispenser.

Figure 4 is an enlarged bottom plan view looking toward the dispensing valve of the dispenser.

Figure 5 is a horizontal sectional view through the dispenser at the dispensing column thereof.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, the dispenser comprises an outer cylindrical ice receptacle 10 having arranged therein a reservoir 11, which is eccentrically disposed within said receptacle and has fitted at its center a separable depending ice holder 12, the latter being open at its top and marginally flanged at 13 for fasteners 14 which separably secure the holder 12 within the reservoir 11 while leading into the reservoir at the bottom thereof is a feed pipe 15 for supply of beer into the said reservoir. The space 16 between the receptacle 10 and the reservoir 11

is adapted for accommodating ice and constitutes a compartment therefor while cracked ice is placed within the ice holder 12 and in this manner the beer 17 within the reservoir will be chilled or cooled.

Formed vertically in the receptacle 10 and reservoir 11 is a tube-like dispensing column 18 which is extended peripherally and through the bottom of the receptacle 10, this end being open and the opposite upper end closed. At the open end of the column 18 is a coupling nipple 19 having at diametrically opposite sides thereof reversely disposed bayonet slots 20 for the reciprocation of keeper lugs 21 formed with a beer mug, glass or the like 22 at diametrically opposite points thereof and in this manner a tight separable coupling of the mug, glass or the like will be had with the nipple 19. The nipple has fitted therein a sealing gasket 23 for contact with the open mouth of the mug, glass or the like to prevent leakage at the nipple.

The lower open end of the column 18 has separably fitted therein a cut-off valve 24, its stem 25 extending upwardly vertically at the center of the column and is of tube form to form an air vent 26 opening into the mug or glass or the like 22 and communicating with the atmosphere. This cut-off valve 24 is equipped with a spring 27 for effecting tightness in the working of the valve while at the upper end of the stem and extended outwardly through the open top of the receptacle 10 in a forward direction is a hand crank or handle 28 allowing hand control of the said valve for the opening and closing thereof.

The column 18 at diametrically opposite sides is cut away to form elongated openings or slots 29 so that beer within the reservoir 11 can freely flow into the said column therefrom.

Interiorly of the column 18 adjacent to its closed end is a float valve 30 supported in brackets 31 stationarily arranged within said column and this valve 30 engages a perforation 32 in the closed upper end of said column, the beer content of the reservoir 11 controlling the said valve 30 so that when the beer drops below a determined level within the reservoir the valve 32 automatically opens to allow air to enter the reservoir and thereby permitting free flow of beer within the same from the supply pipe 15. Within the lower end of the stem 26 is an automatically closing valve 33 which closes when the mug, glass or the like 22 has become filled with beer and on the detachment of such mug, glass or the like the said valve automatically opens, being in the form of a ball valve.

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In the use of the dispenser when filling the mug, glass or the like 22, foam rising within the same will flow back into the column and thence into the reservoir 11 so that the filled mug, glass or the like will be relieved of the foam at the top of the beer therein contained.

The valve 33 at the lower end of the stem 25 is held within a cage 34 of the required construction, air being free to escape from the mug, glass or the like 22 during the filling thereof through the vent 26, the said valve 33 being open during the filling operation for the escapement of air from the said mug, glass or the like.

When it is desired to dispense beer from the column 18, the handle 28 is shifted to a position for the opening of the valve 24 so that beer within the column will be dispensed into the mug, glass or the like 22 coupled with the nipple 19 at the lower open end of said column. When the mug, glass or the like becomes filled with beer, it is uncoupled and, of course, is understood that the valve 24 has been closed prior to the uncovering of the mug, glass or the like.

What is claimed is:

25 1. A dispenser of the character described comprising an outer receptacle, a reservoir eccentrically arranged within said receptacle and forming an ice compartment therebetween, an ice holder separably fitted with the reservoir and depending 30 therein, a column in communication with the reservoir and extended through the said reservoir and beneath the bottom of the receptacle for establishing flow to the column, a nipple for separably fastening a container to the lower end of 35 the column, an opening and closing valve arranged in the lower end of said column, and means for controlling said valve.

2. A dispenser of the character described comprising an outer receptacle, a reservoir eccentrically arranged within said receptacle and forming an ice compartment therebetween, an ice holder separably fitted with the reservoir and depending 40 therein, a column in communication with the reservoir and extended through the said reservoir and beneath the bottom of the receptacle for establishing flow to the column, a nipple for separably fastening a container to the lower end of 45 the column, an opening and closing valve arranged in the lower end of said column, means for controlling said valve, the said column having an air escape vent, a float valve within the column and controlling said vent, a hollow stem formed with the first-mentioned valve and forming an air vent, means controlled by the contents of the container for opening and closing said last-mentioned vent, and means for supplying liquid under pressure to the reservoir.

for separably fastening a container to the lower end of the column, an opening and closing valve arranged in the lower end of said column, means for controlling said valve, the said column having an air escape vent, and a float valve within the column and controlling said vent.

3. A dispenser of the character described comprising an outer receptacle, a reservoir eccentrically arranged within said receptacle and forming an ice compartment therebetween, an ice holder 10 separably fitted with the reservoir and depending therein, a column in communication with the reservoir and extended through the said reservoir and beneath the bottom of the receptacle for establishing flow to the column, a nipple for separably fastening a container to the lower end of 15 the column, an opening and closing valve arranged in the lower end of said column, means for controlling said valve, the said column having an air escape vent, a float valve within the column 20 and controlling said vent, a hollow stem formed with the first-mentioned valve and forming an air vent, and means controlled by the contents of the container for opening and closing said last-mentioned vent.

4. A dispenser of the character described comprising an outer receptacle, a reservoir eccentrically arranged within said receptacle and forming an ice compartment therebetween, an ice holder 25 separably fitted with the reservoir and depending therein, a column in communication with the reservoir and extended through the said reservoir and beneath the bottom of the receptacle for establishing flow to the column, a nipple for separably fastening a container to the lower end of 30 the column, an opening and closing valve arranged in the lower end of said column, means for controlling said valve, the said column having an air escape vent, a float valve within the column 35 and controlling said vent, a hollow stem formed with the first-mentioned valve and forming an air vent, means controlled by the contents of the container for opening and closing said last-mentioned vent, and means for supplying liquid under pressure to the reservoir.

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