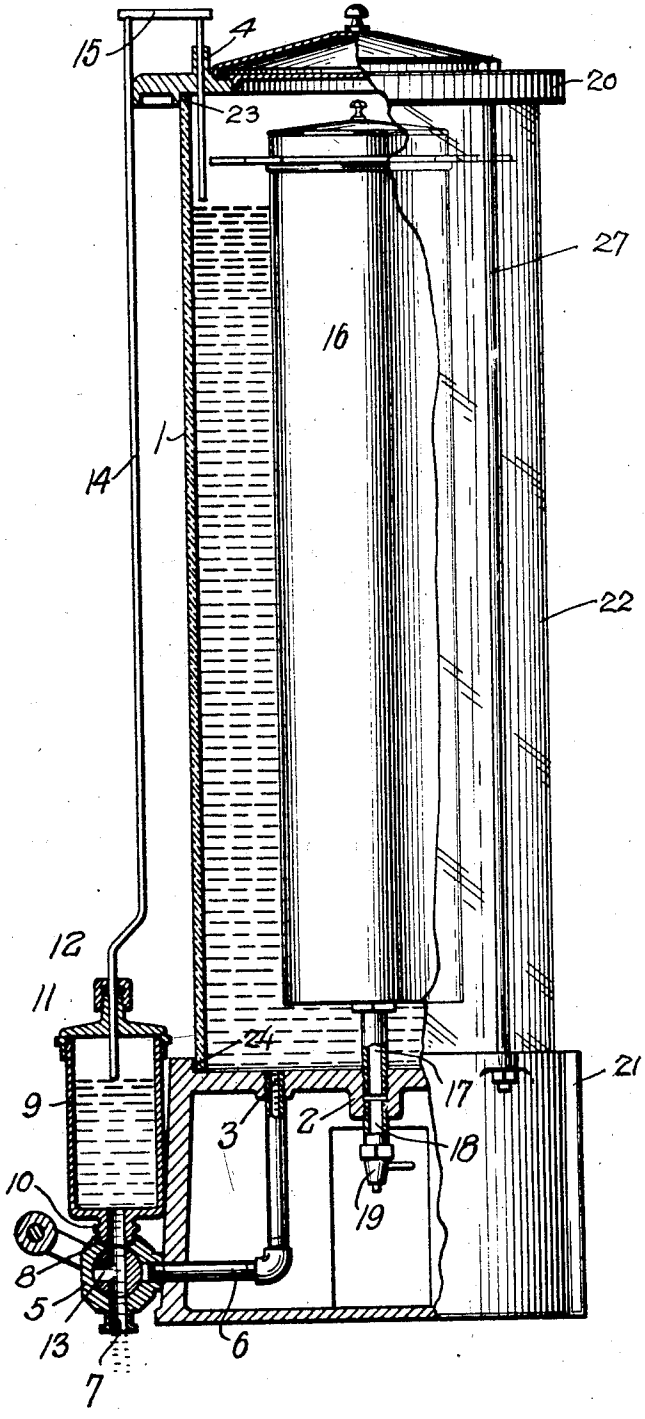
Jan. 3, 1933. R. BERRY 1,893,391

LIQUID DISPENSER

Original Filed Aug. 11, 1931



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LIQUID DISPENSER

Application filed August 11, 1931, Serial No. 556,421. Renewed November 15, 1932.

The invention has relation to dispensers for beverages wherein measured or predetermined quantities of the beverage are fed to a measuring vessel from a storage tank or reservoir upon successive operations of a control valve, an object of the invention being to provide improved means for varying the quantity of the beverage fed to the measuring vessel upon each operation of the control valve. Other objects and advantages will appear hereinafter.

The invention consists in the novel construction and combinations of parts as set forth in the appended claim.

In the accompanying drawing illustrating an embodiment of the invention:

The figure of the drawing is a central vertical section of the invention.

In this drawing, the numeral 1 designates a liquid reservoir, having at the bottom thereof a drain opening 2 and a discharge opening 3, and at the top thereof at one side a short guide tube 4.

A valve casing 5 has a lateral tubular connection 6 with the discharge opening of said reservoir, a lower tubular discharge extension 7, and an upper orifice 8.

A measuring vessel 9 has a lower tubular extension 10 engaging the upper orifice of said valve casing and a top 11 provided with an orifice 12.

A three-way valve 13 located in said valve casing is adapted in one position thereof to establish communication between said lateral reservoir connection and the measuring vessel and to close said discharge extension, and in another position thereof to establish communication between the measuring vessel and said discharge extension and to close said reservoir connection.

A vent tube 14 has at the lower end thereof engagement with the upper orifice of the measuring vessel and at the upper end thereof a U-shaped bend 15 the free end of which engages said short guide tube.

Upon operation of the valve 13 liquid is admitted to the measuring vessel from the reservoir and will rise in said vessel until it covers the lower end of the vent tube when the rise will stop to limit the charge of liquid. The vent tube is vertically adjustable to vary the height of the lower end thereof, thereby varying the amount of the charge of liquid in the measuring vessel. In this vertical adjustment of the vent tube, it is slidable in the upper orifice 12 of the measuring vessel, and in the short guide tube 4 of the reservoir, so that its movement is guided at both ends. Another purpose of the U-shaped bend of the vent tube is to convey back to the reservoir small quantities of the liquid that sometimes rise in the vent tube, due to faulty packing for instance, or for other reason.

An ice chamber 16 is located within the reservoir and is provided with a short upper drain pipe section 17 having threaded engagement with the drain opening 2 of the reservoir, said ice chamber being rotatable to disengage said drain pipe section from said discharge opening so that the reservoir may drain therethrough. A lower drain pipe section 18 also has threaded engagement with the drain opening 2 of the reservoir, and is provided with a control valve 19, which controls the drain from both the reservoir and from the ice chamber.

Both the ice chamber and the reservoir are provided with suitable covers and the upper orifice of the measuring chamber is suitably packed.

The reservoir 1 is composed of a top 20, a base 21, and a glass cylinder 22, said cylinder at top and bottom closely engaging vertical annular shoulders 23 and 24 of said top and base, and at top and bottom edges engaging washers of said top and bottom, a plurality of vertical bolts 27 external of said glass cylinder, connecting said top and base and drawing the same tightly against said washers to make a liquid tight joint.

In this way the cost of manufacture is considerably reduced and the parts are capable of being more readily cleansed, thereby rendering the device more sanitary.

I claim:—

In a liquid dispenser, a reservoir for liquid provided at the top thereof with a short guide tube, a valved dispensing pipe connection with said reservoir the valve casing of which is provided with an upper orifice, a measuring

vessel located at one side of said reservoir and having a lower tubular extension comunicating with said orifice and a top provided with a perforation, and a vent tube located exteriorly of said reservoir and having at its lower end slidable engagement with said perforation and at its upper end having an inwardly directed U-shaped bend the free end of which has close slidable engagement with said guide tube to convey back to the reservoir any liquid that may rise in said vent tube and to guide the vertical sliding movement of said vent tube in the adjustment thereof to vary the charge in said vessel.

In testimony whereof I affix my signature.

ROY BERRY.