N. JACOVATOS.

MIXED DRINKS DISPENSER.

APPLICATION FILED JULY 2, 1914.

1,151,270. Patented Aug. 24, 1915.

Fig. 1.

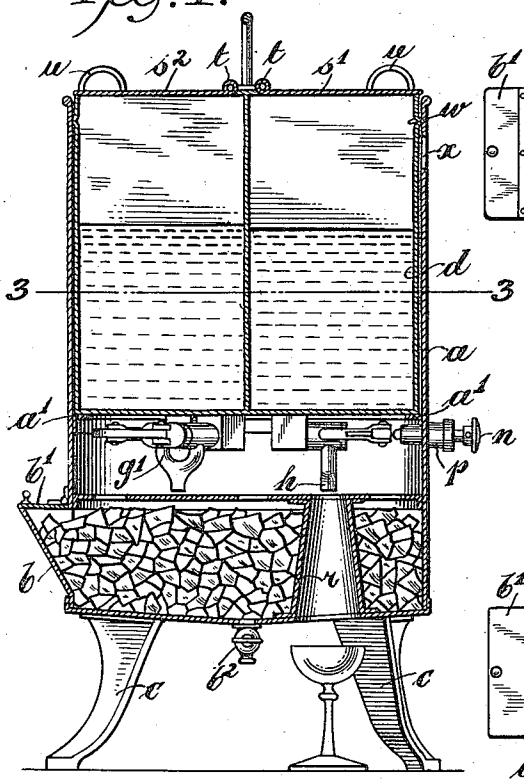


Fig. 2.

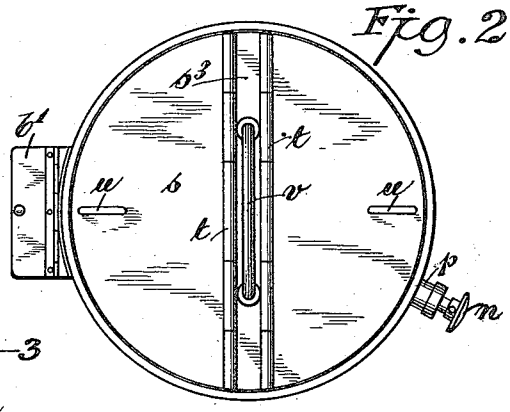


Fig. 3.

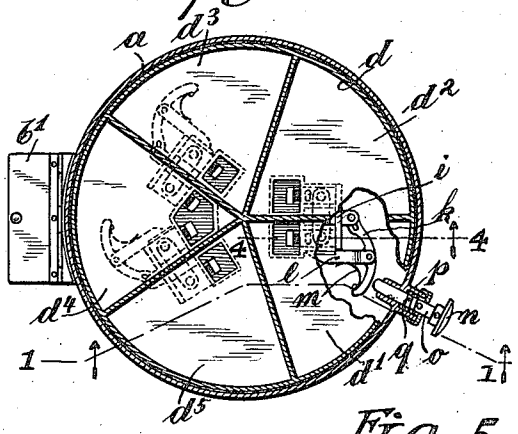


Fig. 4.

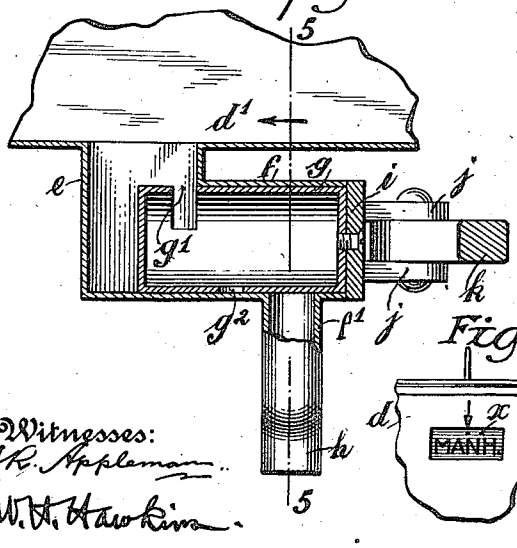


Fig. 5.

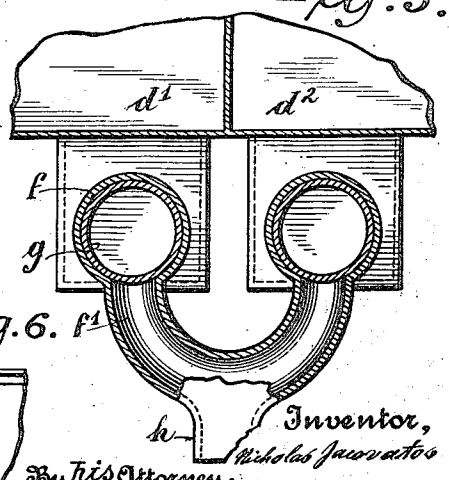


Fig. 6.

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UNITED STATES PATENT OFFICE.

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MIXED-DRINKS DISPENSER.

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To all whom it may concern:

Be it known that I, NICHOLAS JACOVATOS, a citizen of the United States of America, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Mixed-Drinks Dispensers, of which the following is a specification.

This invention has reference to improvements in a dispenser for mixed drinks. It pertains to a novel apparatus comprising a cylinder, or container, radially divided into a plurality of separate compartments, each containing one ingredient or component for mixed drinks. Each compartment has a depression at the bottom communicating therewith. A hollow cylindrical plunger holding the quantity of one liquid is horizontally mounted in connection with each depression. On the bottom of each plunger casing a discharge pipe is provided, and the discharge pipes of two adjoining plungers are united to form one common outlet as two ingredients usually form one mixed drink. Means are provided on the ends of each pair of plungers to operate them simultaneously and a push button, outside of the dispenser, has a rod for actuating the plunger operating means when it is desired to draw one mixed drink. Upon release of the push button the pair of plungers just operated return into their initial position. Each adjoining pair of compartments with their plungers may be brought into the required position for being operated by the push button, and at the same time the common outlet for the mixed drinks is made to register with a dispensing pipe under which the glass is placed. An indicator in the upper portion of the apparatus shows when all the described parts are in proper position to draw the desired drink and a compartment for ice with top openings forms the bottom part of the dispenser, all as will be fully described hereinafter with reference to the accompanying drawing in which:

Figure 1 represents in vertical section, on line 1—1 of Fig. 3 an automatic dispenser for mixed drinks embodying in desirable form the present improvements. Fig. 2 is a top plan view of the same. Fig. 3 is a cross section on line 3—3 of Fig. 1. Fig. 4 is a section on line 4—4 of Fig. 3. Fig. 5 is a vertical section on line 5—5 of Fig. 4. Fig. 6 is the detail view of the indicator.

Similar characters of reference denote like parts in all the figures.

The dispenser is composed of nickel or silver plated parts, or of enameled iron ware special care being taken to line the inner surfaces of the compartments for the single ingredients or components with a coating which is not attacked by the contents.

In the drawing a represents the outer cylinder which is open at the top and forms an ice receptacle b at the bottom. A door b^1 permits of filling the ice receptacle and a valve b^2, located centrally on its bottom allows of drawing off the water. The ice receptacle is supported on legs c, thus the dispenser is portable.

Within the outer cylinder a there is rotatably mounted an inner cylinder or container d which rests on an inner annular flange a^1 of said outer cylinder. The container d is radially divided into a plurality of compartments or holders for the liquids of which holders five, d^1, d^2, d^3, d^4, and d^5, are shown in Fig. 3. Two adjoining holders contain each one component for making one style of mixed drink. If for instance the holder d^1 contains whisky and the adjoining holder d^2 Italian vermuth and both are connected at the bottom, then a so called "Manhattan" cocktail may be dispensed. The adjoining holder may contain, for instance, Dubonnet wine or cordial and the next holder gin. These two liquids form the constituents of a so called "Dubonnet" appetizer. If now the adjoining holder contains French vermuth then the gin and the French vermuth constitute the liquids for the so called "Martini." In similar manner various combinations may be made according to requirement, style and location.

In order to be able to dispense the desired mixed drinks composed of liquids contained in two adjoining holders each holder has a depression e in its bottom portion and a cylindrical plunger casing f is horizontally attached thereto. In the casing there is a hollow plunger g adapted to move therein. The casing f has on its inner bottom portion a discharge pipe f^1. The depression e is in communication with the holder and the plunger g has an opening g^1 in its outer top portion which normally communicates with the depression and holder. The size of the hollow plunger is so selected as to hold the quantity of one component for one mixed

drink. The adjoining holder of a component for a mixed drink is provided with a similar depression, plunger and discharge pipe. Both discharge pipes are united to form one common outlet *h*. Two adjoining plungers are connected to a crosshead *i*. In the central portion of the cross head there are two lugs *j* which support a movable lever *k*. This lever is pivotally secured to a bracket *l* which is attached to the plunger casing. To the opposite free end of the lever *k* a leaf spring *m* is secured which bears against the bracket *l* and thus keeps the cross head and plunger normally in their inward position as shown in all the figures.

Below the inner cylinder or container *d* and horizontally in line with the levers *k* a push button *n* is provided which carries a rod *o* that passes through the outer casing in a suitable bushing *p*. The rod *o* of the push button *n* carries a helical spring *q* which keeps it normally in the position shown in Fig. 3. If now the operator presses in the button *n* the inner end of the rod *o* contacts with the free end of the lever *k* and overcomes the force of the leaf spring *m* whereby the lever *k* is moved on its pivot and the cross head *i* with the plungers *g* are moved in an outward direction. Each plunger has in its center portion an opening g^2 which coincides with the discharge tube f^1 when the plunger has been moved out. At this moment the top opening g^1 of the plunger is located on the inner wall of the casing *f* and does not communicate with the holder. Now the one component flows out of the hollow plunger into the discharge tube f^1. At the same time the adjoining plunger has been moved so as to empty its contents into its discharge tube and as both discharge tubes are united to form a common outlet *h* the two liquids mix and flow out together into the glass. It is evident that the plungers may be of various sizes because less of the cordial is usually required than of the other component. As soon as the glass is filled the push button is released whereupon the plungers will return into their initial position. To insure a safe flow of the mixed drink and prevent its coming in contact with the walls of the dispenser tube *r* which is provided in the ice receptacle said tube is somewhat wider at the bottom.

The cover *s* of the inner cylinder or container *d* is composed of two parts, s^1 s^2. Each part moves on a hinge *t* and may be lifted by the handle *u* when it is desired to fill the holders. The strip s^3 of the cover between the hinges supports a large handle *v* by which the inner container *d* may be turned so as to bring the various pairs of holders with their plungers, cross heads, and levers in position before the rod *o* of the push button *n*. To guide the inner container it has an angular rim *w* which also keeps it somewhat away from the outer cylinder. In order to determine whether the dispensing mechanism is in the proper location before the push button a small window *x* is provided in the top side wall of the outer cylinder through which the operator may determine whether the inner container has been moved to the desired degree. This is indicated by inscriptions on the inner container, reading for instance "Mahn" as shown in Fig. 6.

It is self evident that the described dispenser may be used for dispensing any other kind of liquids such as coffee and milk.

I claim as my invention:

1. A dispenser for mixed liquids consisting of an outer vessel, a movable vessel therein, divided into a plurality of separate holders, a hollow plunger on each holder to store a quantity of one liquid, means to actuate two adjoining receptacles simultaneously, and a discharge pipe in connection with each receptacle when moved.

2. A dispenser for mixed drinks consisting of an outer cylinder, an inner cylinder radially divided into a plurality of separate liquid holders, movable hollow plungers one each normally in communication with one holder to store a quantity of one liquid, means to actuate two adjoining hollow plungers simultaneously, and discharge pipes one each communicating with one receptacle when it has been moved, two adjoining discharge pipes being united to form one outlet.

3. A dispenser for mixed drinks consisting of an outer cylinder, an inner rotatable cylinder radially divided into a plurality of separate liquid holders, movable hollow plungers one each in connection with one holder, means for each adjoining pair of plungers to keep them normally in communication with their holders, a push button to move said pair of plungers, and means for discharging simultaneously the contents of said pair of plungers when moved.

4. A dispenser for mixed drinks consisting of an outer cylinder, an inner rotatable cylinder radially divided into a plurality of separate liquid holders, movable hollow plungers one each in connection with one holder, means for each adjoining pair of plungers to keep them normally in communication with their holders, a push button to move said pair of plungers, means for discharging simultaneously the contents of said plungers when moved, an ice receptacle with top openings, and a dispenser opening in the lower part of the outer cylinder.

5. A dispenser for mixed drinks consisting of an outer cylinder, an inner rotatable cylinder radially divided into a plurality of separate liquid holders, movable hollow plungers one each in connection with one

holder, a cross head connecting two adjoining plungers, a pivotally mounted lever connected thereto, a leaf spring on the free end of said lever keeping the two plungers normally in communication with their holders, a push button adapted to press the free end of the lever inwardly and thereby the plungers outwardly, and means for discharging simultaneously the contents of said pair of plungers when moved outwardly.

Signed at New York, N. Y., this 1st day of July, 1914.

NICHOLAS JACOVATOS.

Witnesses:
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