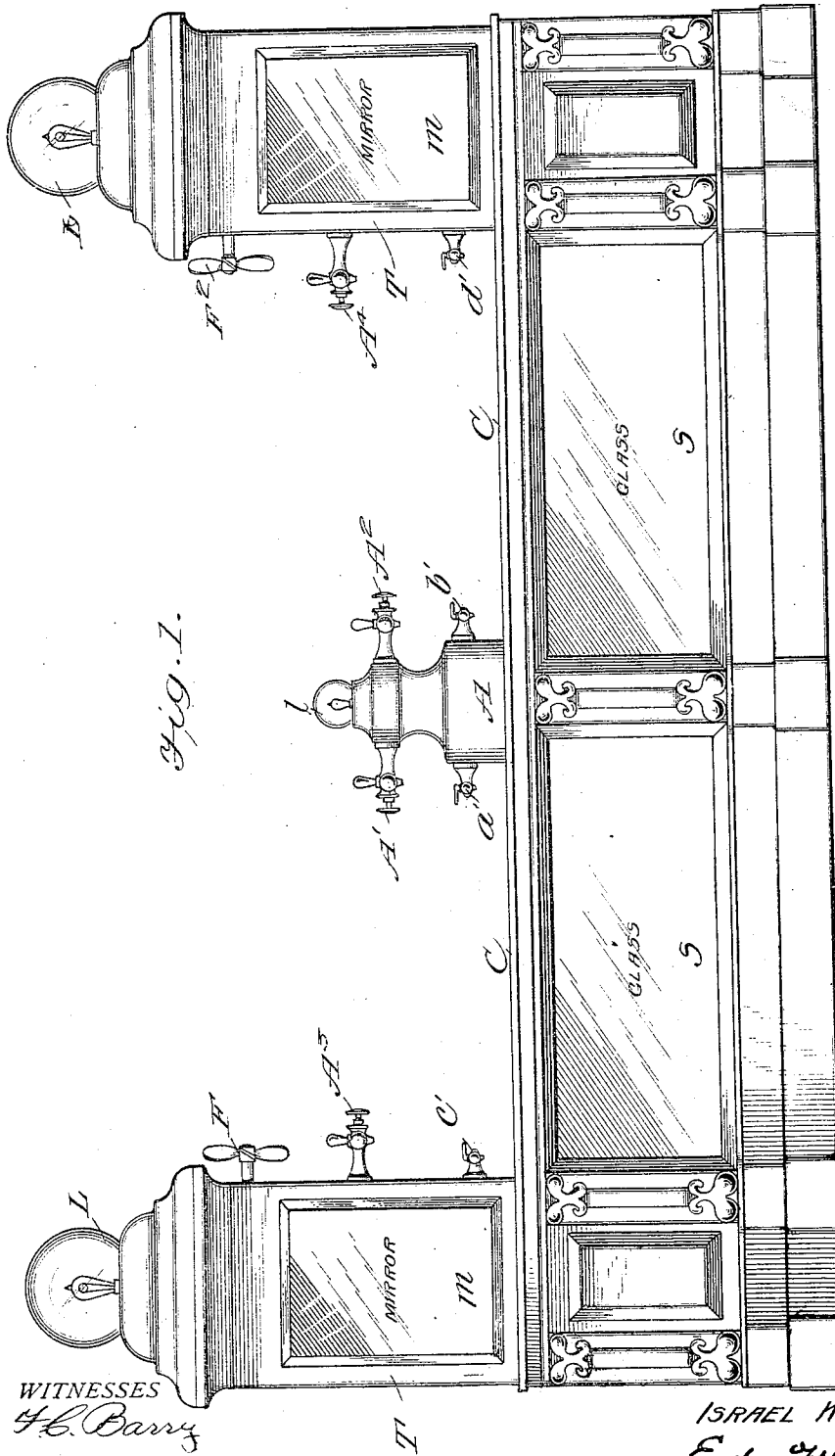


I. KLAYMAN.
DISPENSING APPARATUS.
APPLICATION FILED OCT. 28, 1912.

Patented Apr. 1, 1913.

3 SHEETS—SHEET 1.

1,057,744.



WITNESSES
H. C. Barry
E. C. Duff

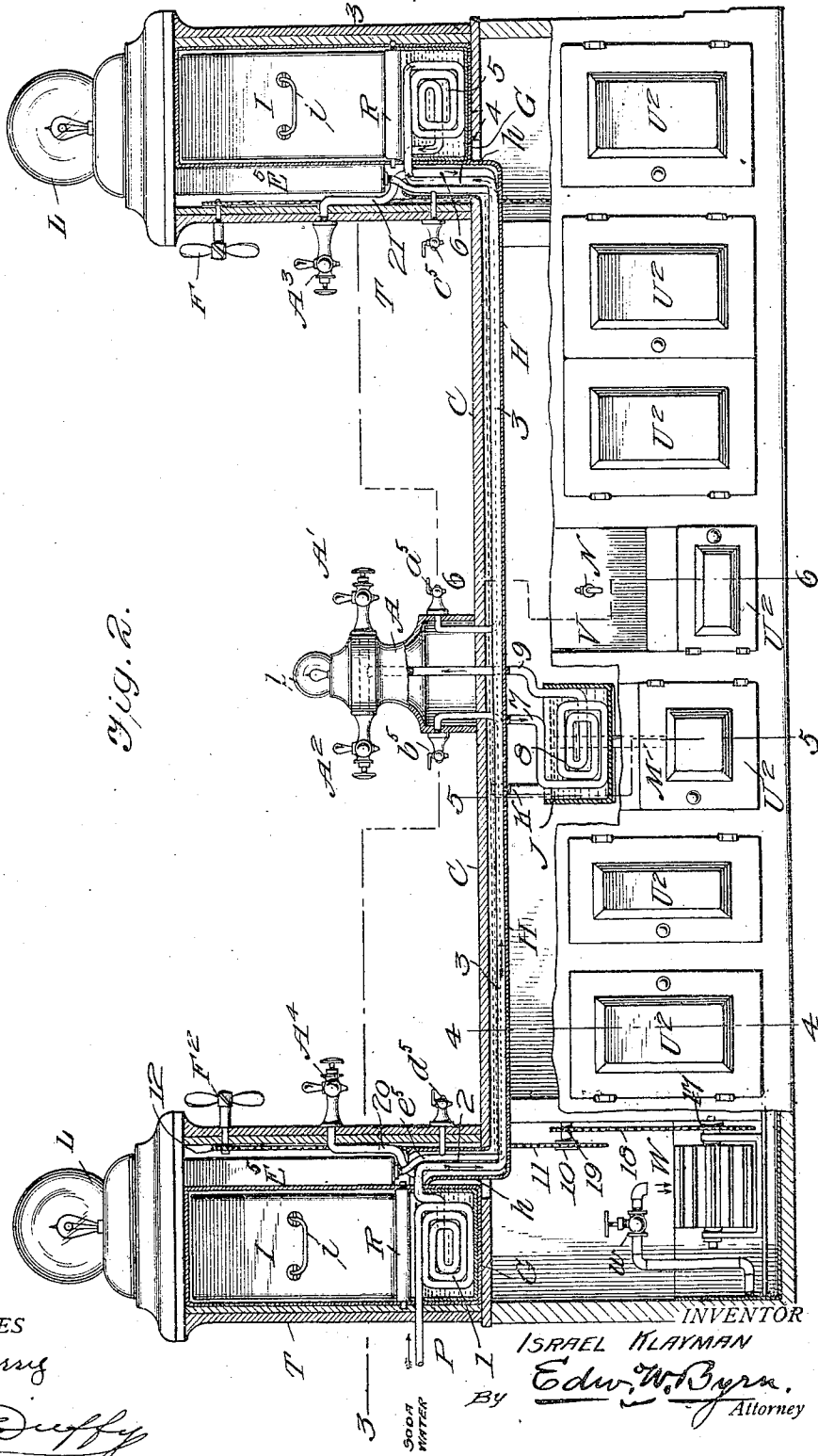
INVENTOR
ISRAEL KLAYMAN
By Edw. W. Barry, Attorney

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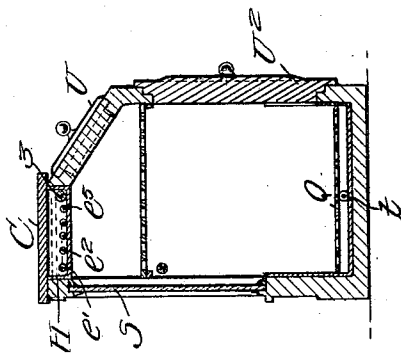
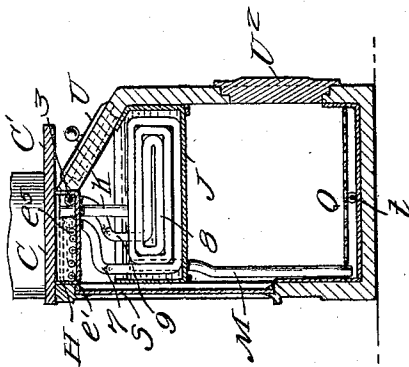
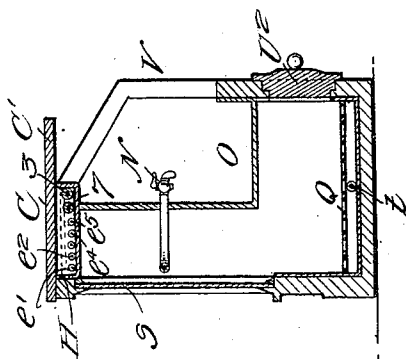
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3 SHEETS--SHEET 3.



F. L. Barry

E. E. Duffy



INVENTOR
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UNITED STATES PATENT OFFICE.

ISRAEL KLAYMAN, OF WASHINGTON, DISTRICT OF COLUMBIA.

DISPENSING APPARATUS.

1,057,744.

Specification of Letters Patent.

Patented Apr. 1, 1913.

Application filed October 28, 1912. Serial No. 728,145.

To all whom it may concern:

Be it known that I, ISRAEL KLAYMAN, a subject of the Emperor of Russia, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Dispensing Apparatus, of which the following is a specification.

The object of my invention is to provide an apparatus for dispensing soda water, and other drinks, in drug stores, saloons, department stores, amusement places and elsewhere, which shall combine great capacity with a limited amount of floor space and a great saving of ice, and which shall also be symmetrical in shape and artistic in design.

To this end my invention consists of a novel construction and combination of parts in which four sets of dispensing outlets are combined in one unitary organization, one set at each end of a counter and two in the middle, each set comprising a soda water spigot and a plurality of flavoring syrup spigots, all combined with soda water and syrup pipes and cooling devices and in which the ice chambers are arranged in elevated position above the counter and at opposite ends thereof and serve the purpose of cooling the soda water pipes and syrup containers, the water resulting from the melted ice serving to bathe the soda water and syrup pipes and absorb heat therefrom to the point of discharge.

Figure 1 is a front elevation of my new soda water fountain. Fig. 2 is a view taken from behind the counter, with parts in vertical section. Fig. 3 is a horizontal section on the broken line 3—3 of Fig. 2. Fig. 4 is a vertical transverse section on line 4—4 of Fig. 2. Fig. 5 is a vertical transverse section on line 5—5 of Fig. 2, and Fig. 6 is a vertical transverse section on line 6—6 of Fig. 2.

Similar letters of reference indicate the same parts in all the views.

In the drawing, Fig. 1, the counter C of marble is surmounted at its ends by ice towers T which contain the ice chambers and the syrup cans and whose sides are provided with mirrors m, while the front of the counter is of transparent plate glass S which forms a show case of the space beneath the counter.

In central position on the counter is erected an upright fountain stand A having soda water spigots A¹ and A² and syrup spigots a' b', which latter are arranged in

two series for as many flavors as may be desired. On the inner face of each of the ice towers T are arranged soda water spigots A³ A⁴ and a series of syrup spigots c' d' corresponding, respectively, to the number of flavors. It will thus be seen that there are four places where four clerks may independently dispense both soda water and syrups.

On top of the elevated ice towers are electric lights L L and on top of the central fountain stand an electric light Z. F and F² are rotating fans arranged on the inner faces of the upper portion of the ice towers and which are actuated by suitable mechanism and cooperate with each other, as will be more fully described hereafter.

The ice towers T are, see Figs. 2 and 3, each arranged to receive an ice container I of galvanized iron having perforated sides and bottom and a solid front provided with a handle i by which it may be slid out on a subjacent roller R to be filled with ice. Beside the ice chamber and between it and the inner side of the tower, there are disposed the syrup cans E', E², E³, E⁴, E⁵. From the bottom of each can a pipe extends to and communicates with a syrup spigot of the tower and a corresponding syrup spigot of the central fountain stand A. Thus in Fig. 3 a syrup can E⁵ supplies by pipe e⁵ syrup spigot d⁵ of the tower and syrup spigot b⁵ of the central fountain stand. There are, as shown in Fig. 3, five of these syrup cans E' to E⁵ for as many flavors, with five individual pipes e' to e⁵ communicating with the two series of syrup spigots d' to d⁵ and b' to b⁵. A similar set of connections is arranged for each tower, so that, as before stated, four clerks may independently serve, each from his own position, both soda water and syrups.

The soda water coming from the reservoir tank, not shown, enters the apparatus from the left hand side of Fig. 2 by way of pipe P. This communicates with a coil 1 in tank G at the base of the ice tower, then descends by pipe 2 through an overflow tube h to horizontal pipe 3 in a shallow horizontal trough H running the full length of the counter from tower to tower. The pipe 3 rises at 4, under the other tower, to coil 5 in another tank G, in the base of that ice tower, and then is bent down at 6 to the horizontal trough H in which it extends to pipe 7 and coil 8 in a tank J and whence it

proceeds upwardly by pipe 9 to the two central soda water dispensing spigots A' A². The soda water spigots A³ A⁴ of the ice towers are connected to the soda water circulation pipe by branches 20 and 21. It will thus be seen that each of the four sets of the syrup spigots is provided with its own soda water spigot.

As the ice melts in the ice containers of the towers the ice water passes through the perforations of the ice containers I into the subjacent pan G, which it fills to the level of the overflow pipe h, at which level the coils 1 and 5 are completely immersed in the cold ice water. As this ice water overflows through pipe h into the long horizontal trough H it there completely immerses the syrup and soda water pipes as they proceed to the central fountain stand. This is a feature of importance, for when business is slack the soda water and syrup standing in the horizontal pipes would become warm and consequently the drinks dispensed at the central fountain would become warm, but in my invention the ice water bathes these pipes up to the central dispensing point.

To maintain the water at a definite level in the shallow trough, an overflow pipe K opens at its upper end in the trough H at the level the water is to be maintained and the water exceeding this level overflows down pipe K into a subjacent tank J in which is further maintained the body of cold ice water immersing the coil 8 for continuing the cooling of the soda water pipe. The level of the water in this tank is maintained by another overflow pipe M which opens at its upper end in tank J at the level the water is to stand and descends thence into the metal lined bottom of the counter beneath false bottom Q, Figs. 4, 5, 6, whence it passes out by the outlet pipe t.

It will be seen that the trough H carrying the horizontal pipes is immediately below the counter and closely adjacent to the same. This leaves ample storage space for the refrigerator below. Furthermore, the trough H is below the tanks G and above the tank J which allows the drip water to feed from gravity through the entire apparatus from both ends to the middle, bathing the pipes in cold water at every point and without encroaching on the storage space of the refrigerator.

It will be seen from the foregoing that the soda water and syrups are cooled not only in the ice towers, but also all the way up to the dispensing point of the central fountain and by the waste water coming from the ice towers.

On the inner side of the counter immediately behind the central fountain stand the marble slab is widened, as at C', Figs. 3, 5, 6, for the purpose of forming a support for the glasses in drawing syrup, but at other

points along the inner side the counter is beveled at the top, as seen in Figs. 4, 5, 6. Along this bevel space is arranged either hinged or removable doors U, U, while lower down other doors U² U² give access to the show case and the space below the counter forming a refrigerator. This space receives cold air from the ice towers which flows downwardly through openings in the counter.

At one point in rear of the counter there is an open space V, see Figs. 2 and 6, in which is contained a sink O and water spigot N for washing the glasses.

In the end portions of the counter just below each ice tower there is a water motor consisting of a water wheel W receiving water from a spigot w. This wheel turns a sprocket 17 from which a chain belt 18 extends to another sprocket 19 on the same shaft with a smaller sprocket 10, from which latter a chain belt 11 extends up into the ice tower between the syrup cans and the side of the tower and connects with and drives a sprocket 12 on the same shaft as the fan F². This furnishes means for driving the fan at a high rate of speed, but any other form of motor, such as an electric motor, might be used. The fans F and F², it will be seen, face each other on the inner side of the upper portion of the towers and when they are in action the air blasts from each oppose each other and produce about the central dispensing fountain a gyratory set of currents which circulate about the central fountain, keeping away flies and cooling the customers.

To permit the removal of the ice chambers and syrup cans from the ice towers, each tower has on its inner side a hinged door X, as seen best in Fig. 3.

In carrying out my invention, I would have it understood that I do not confine myself to the exact construction and arrangement of parts shown, but may modify or change many of its features without departing from my invention as set forth in the claims.

I claim:

1. A dispensing apparatus for soda water, &c., comprising a counter, elevated ice towers arranged at opposite ends of the counter and above the same, a central dispensing fountain having spigots for both soda water and syrups and arranged on the counter between the ice towers, soda water coils and flavoring syrup containers arranged in the ice towers, spigots arranged on the inner faces of the ice towers for soda water and syrups, pipes connecting said coils and syrup containers of the ice towers with the soda water and syrup spigots of the central dispensing fountain, said pipes being disposed horizontally beneath the counter top and immediately adjacent there-

to, and a shallow horizontal cooling trough arranged beneath the counter top and containing the pipes leading to the central fountain and maintaining a low temperature for the same up to the central fountain.

2. A dispensing apparatus for soda water, &c., comprising a counter, elevated ice towers arranged at opposite ends of the counter and above the same, a central dispensing fountain having spigots for both soda water and syrups and arranged on the counter between the ice towers, soda water coils and flavoring syrup containers arranged in the ice towers, spigots arranged on the inner faces of the ice towers for soda water and syrups, and pipes connecting said coils and syrup containers of the ice towers with the soda water and syrup spigots of the central dispensing fountain, said pipes being disposed horizontally beneath the counter top and immediately adjacent thereto, a shallow horizontal cooling trough arranged beneath the counter top and containing the pipes leading to the central fountain, and a drip pan in the bottom of each ice tower and having an overflow into the shallow trough below the counter containing the pipes to bathe the latter in cold water up to the point of discharge at the fountain.

3. The combination with a counter having thereon a dispensing fountain with spigots for soda water and syrups; of an elevated ice tower mounted on the counter and having within it an ice chamber with a space at the side thereof, a series of vertically arranged containers for syrups arranged in this space with spigots arranged on the side of the ice tower facing the dispensing fountain, separate pipes leading therefrom below the counter top to the syrup spigots of the dispensing fountain, and a soda water coil arranged below the ice chamber of the tower and having its outlet end extended beneath the counter to the dispensing fountain, a drip pan in the ice tower containing the soda water coils, a shallow elongated trough below the

counter top containing the syrup and soda water pipes, and an overflow from the drip pan of the ice tower to the shallow trough for the soda water and syrup pipes.

4. A dispensing apparatus, comprising a counter, an elevated ice tower with tank and soda water coil in the bottom of the same above the counter, a dispensing fountain with soda water and syrup spigots arranged on the counter, a tank arranged below the dispensing fountain, a trough under the counter arranged on a level below the tank of the ice tower and above the tank of the dispensing fountain, a soda water pipe having a coil immersed in the ice water of the tank below the counter and extended up into the dispensing fountain and extending to the coil in the ice tower tank, and an overflow pipe for said latter tank to said trough.

5. A dispensing apparatus for soda water, &c., comprising a counter, elevated ice towers with tanks and soda water coils in the bottoms of the same above the counter and arranged at opposite ends of the counter, a central dispensing fountain having spigots for both soda water and syrups and arranged on the counter between the ice towers, flavoring syrup containers arranged in the ice towers, and pipes connecting the coils and syrup containers of the ice towers with the spigots of the central dispensing fountain and disposed beneath the counter top, a trough inclosing said pipes with overflow into the same from the ice tower tanks, and an additional set of soda water pipes with spigots and syrup pipes with spigots tapped into the soda water pipes and syrup containers for each ice tower and extended through the inner sides of said towers.

In testimony whereof I affix my signature in presence of two witnesses.

ISRAEL KLAYMAN.

Witnesses:

BENNIE KLAYMAN,
E. C. DUFFY.