No. 872,669. PATENTED DEC. 3, 1907.

J. A. McCORMICK.

SODA FOUNTAIN.

APPLICATION FILED JAN. 2, 1906.

3 SHEETS—SHEET 1.

Fig. 2.

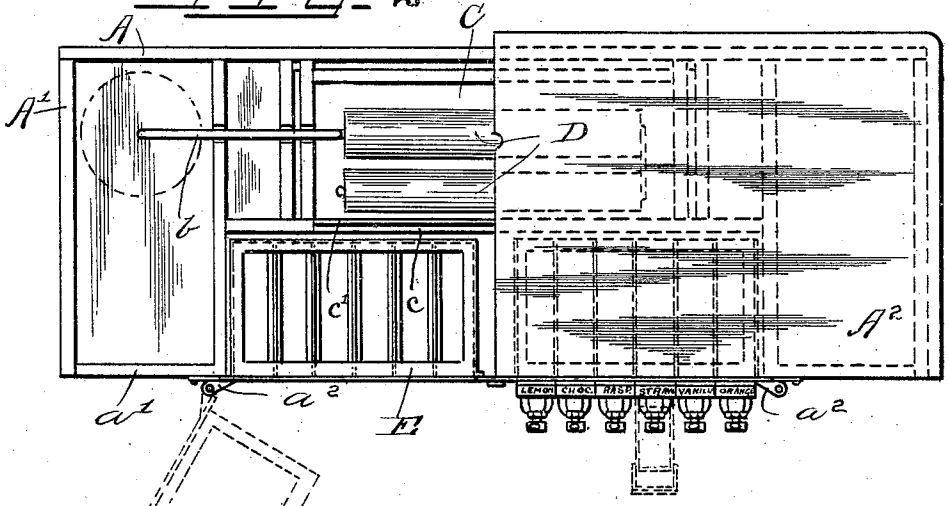
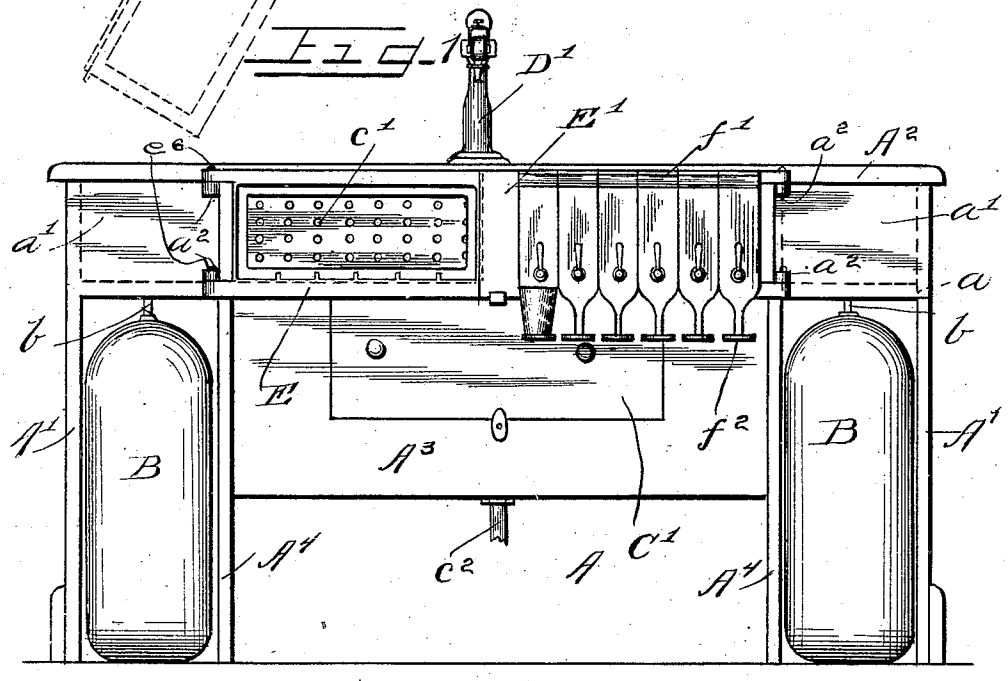


Fig. 1.



Witnesses

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3 SHEETS—SHEET 2.

Fig. 3

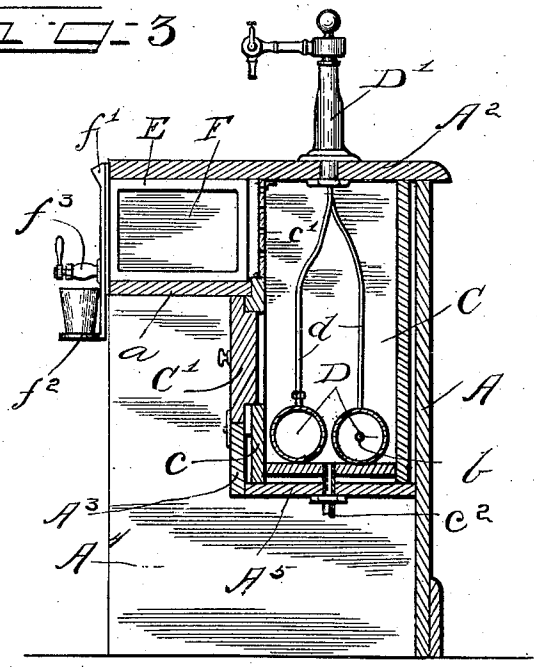
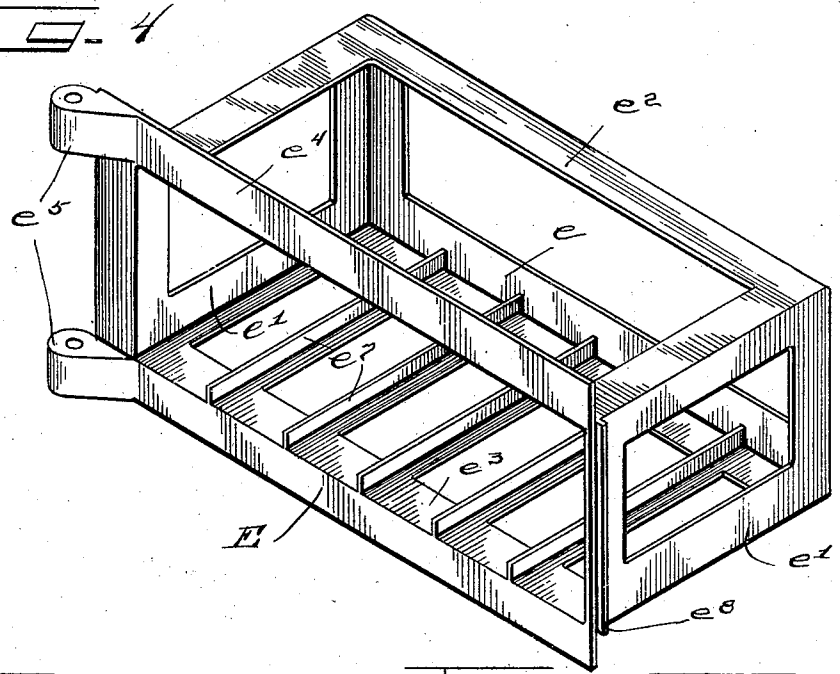


Fig. 4



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3 SHEETS—SHEET 3.

FIG. 5

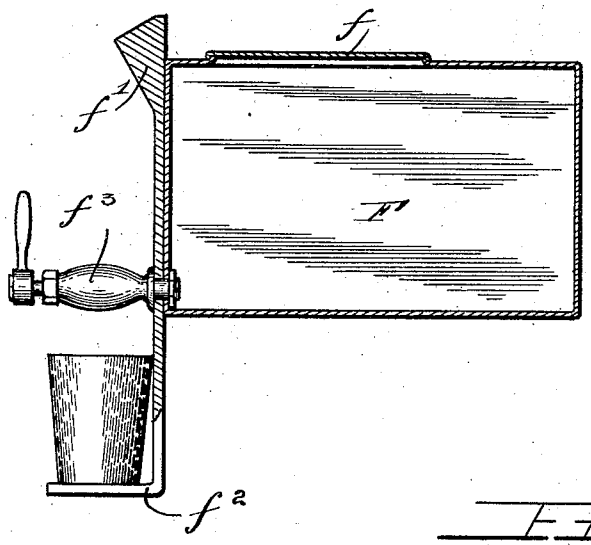


FIG. 7

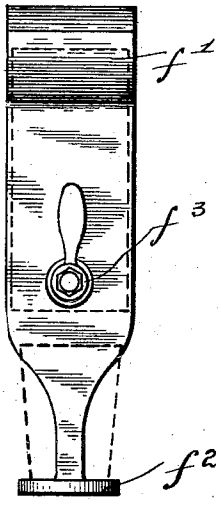
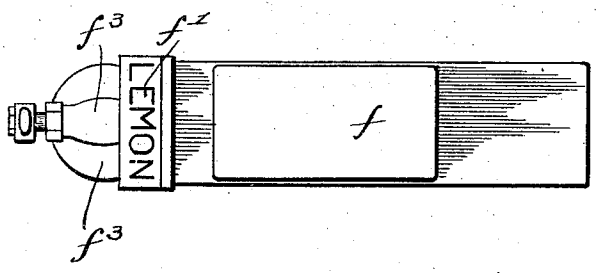


FIG. 6



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH A. McCORMICK, OF CHICAGO, ILLINOIS, ASSIGNOR TO J. J. RYAN & COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SODA-FOUNTAIN.

No. 872,669. Specification of Letters Patent. Patented Dec. 3, 1907.

Application filed January 2, 1906. Serial No. 294,102.

To all whom it may concern:

Be it known that I, JOSEPH A. McCORMICK, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Soda-Fountains; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in soda fountains and more particularly to a soda fountain adapted to be supported beneath a counter or the like.

Heretofore in devices of this class as usually constructed access to the syrup containing receptacles has been difficult, such access generally being through the top of the fountain only. Furthermore in devices of this class it has not been usual to provide means for subjecting the syrups to the cooling effects of the refrigerant and for removing the syrup receptacles either individually or collectively.

The object of this invention is to provide a soda fountain adapted to be concealed beneath the counter and the interior of which is accessible through the side and from which the syrup receptacles may be removed either individually or collectively for the purpose of cleaning, refilling or affording access to the interior of the fountain.

It is a further object of this invention to provide a soda fountain so constructed that the refrigerant acts with cooling effect both upon the gas and upon the syrups.

The invention consists in the matters hereinafter described and more fully pointed out and defined in the appended claims.

In the drawings: Figure 1 is a side elevation of a device embodying my invention showing one of the receptacle crates empty. Fig. 2 is a top plan view with part of the top removed. Fig. 3 is a transverse vertical section. Fig. 4 is a perspective view of one of the receptacle crates or frames. Fig. 5 is a longitudinal vertical section of one of the syrup receptacles. Fig. 6 is a top plan view of the same. Fig. 7 is a front elevation thereof.

As shown in said drawings: the counter may be of any preferred construction but as shown comprises a front wall A and end walls A′ of any preferred construction and a top A^2 of marble or the like, all of which may be secured together in any preferred manner. Spaced a distance from said end walls and parallel therewith are the partitions A^4 forming a compartment at each end of the fountain for the gas tanks B—B. Extending longitudinally of the counter, between the end walls thereof and at a distance below the top is the shelf *a* which extends from the front of the tank rearwardly approximately half the width of the counter and provides a compartment for the syrups, said compartment being closed near its ends by the walls *a′*. The rear wall A^3 of the fountain extends downwardly from the inner edge of the shelf *a* between the partitions A^4—A^4 and a bottom A^5 extends therefrom to the front wall A. In the compartment thus formed by the rear wall A^3, bottom A^5, front wall A and partitions A^4 is the refrigerant tank or receptacles C, the walls and bottom of which are spaced a distance from the walls of the fountain to afford an air space and the rear wall *c* of which extends upwardly flush with the top of the shelf *a* and together with the rear wall A^3 of the fountain is provided with an aperture or opening through which access may be had to the interior of the fountain and which is normally closed by a tight fitting door C′.

Extending upwardly from the top of said wall *c* to the top A^2 of the counter is the perforated partition *c′* of any desired material and which is removably engaged therein and separates the refrigerant compartment from the syrup compartment.

A drain pipe c^2 is provided in the bottom of said refrigerant compartment and in the receptacle C are the gas cooling cylinders D of any desired construction and material, and which are connected with the gas tanks B by means of pipes *b* and from which are upwardly directed pipes *d* leading to the soda cock D′ on the top of the counter.

On the back of the fountain adjacent each end of the opening into the syrup compartment are the apertured lugs a^2 to which are hinged the oppositely swinging crates or frames E—E′. Said crates may be of any preferred material and construction but as shown they comprise rear and end frame members *e*—*e′* and top and bottom frame members e^2—e^3 respectively, which may be connected integrally or in any preferred man-

ner. An outwardly directed flange e^4 extends around the outer side of each crate and is adapted to fit against and form a t ght joint with said top A^2 and shelf a. At the outer ends of said crates are provided apertured lugs e^5 through which and the lugs a^2 are engaged pintles e^6 forming hinges for the crates.

On the bottom of the crates and extending transversely thereof are the upwardly directed guide strips e^7 which are spaced a distance apart to receive therein one of the syrup receptacles F. Said receptacles may be of any preferred material and as shown are rectangular in shape and provided with a removable cover f on the top thereof affording access to the interior and on the front sides thereof are each provided with a facing f' of metal or other desired material which completely cover the opening in the crate and affords a finish therefor and are provided at their lower ends with seats f^2 adapted to support the glass when the syrup is being drawn the faucets f^3.

The operation is as follows: The receptacle crates being hinged to swing oppositely it is evident that when they are swung out of the syrup compartment as shown in Fig. 2 the perforated partition c' separating said compartment from the refrigerant compartment may be removed thereby affording direct access to the interior of the fountain for the purpose of supplying ice. When the refrigerant compartment is filled said crates are again swung into place and locked by the spring lock which is carried on the under side of the shelf a and engages the flange e^4 on the crate E′ which overlaps an end flange e^8 on the crate E.

Inasmuch as the facings f' on the receptacles F fit closely against each other they completely close the opening into the syrup compartment and thereby maintain a low temperature in the fountain.

The syrup receptacles may be individually withdrawn for refilling or other purposes without disturbing the remaining receptacles and when in place are in position for convenient access when drawing the syrup.

The door C′ affords means for getting at the cooling tank and the pipe connections within the refrigerant receptacle and is fitted to the opening therefor in such manner as to prevent leakage therepast.

Obviously many details of construction may be varied without departing from the principles of my invention.

I claim as my invention:

1. In a device of the class described the combination with a counter of a refrigerating compartment in the front thereof, a syrup containing compartment, a perforated partition between the same and said refrigerant compartment, a crate adapted to closely fit said syrup compartment and having an open front, a plurality of guide strips secured thereto, syrup receptacles adapted to be slid into said crate between the guide strips and facing on each receptacle adapted to form a complete closure for said crate, when the same are in place.

2. In a device of the class described the combination with a counter of a syrup compartment therein, oppositely swinging crates hinged to said counter and adapted to fit in said compartment, said crates having open fronts, a flange around the outer side of said crates adapted to closely fit said counter when in closed position, means dividing said crates affording a plurality of sections, a receptacle for each section, a facing on each receptacle adapted with the adjacent receptacles to form a closure for said crates and means in the top of said receptacle whereby the same may be filled.

3. In a device of the class described the combination with a counter of a refrigerating compartment therein, a syrup compartment adjacent the same, a perforated partition between the same and refrigerating compartment, a crate for the syrup compartment opening on all sides, means integral therewith adapting the same to swing laterally from said compartment, a plurality of syrup receptacles slidable longitudinally in said crate, means secured to the crate separating said receptacles and affording an equal space for the action of the cooling fluid around the same and facings on said receptacles adapted to form a complete closure for said crate thereby preventing the escape of the cooling fluid.

4. In a device of the class described the combination with a counter of a refrigerating compartment therein, a syrup compartment adjacent the same, means affording passages from the same to said refrigerating compartment, a plurality of syrup receptacles secured in said syrup compartment, means whereby said receptacles may be removed collectively, said receptacles also adapted to be removed individually independently of the aforesaid means.

5. In a device of the class described the combination with a counter of a refrigerating compartment therein affording an air space between said compartment and the walls of the counter, a syrup compartment adjacent said refrigerant compartment, a swinging crate adapted to fit closely therein, syrup receptacles slidable in said crate, and adapted to be removed from said syrup compartment independently of and when said crate is locked in said syrup compartment.

6. In a device of the class described the combination with a counter, of a refrigerating compartment therein, providing an air space between the same and counter, an outlet opening through the bottom thereof, a

syrup compartment in said counter, means separating and yet affording communication between the same and the refrigerating compartment, a crate hinged to said counter and adapted to be moved into said syrup compartment, guides secured to said crate affording a plurality of sections a syrup receptacle for each section and adapted to be inserted or removed when said crate is locked in said syrup compartment and a facing on each receptacle adapted with the facings of adjacent receptacles to close the front of said crate.

7. In a device of the class described the combination with a counter of a syrup compartment therein, a crate adapted to be secured in said compartment or to be swung therefrom and provided with a flange on its outer face adapted to form a close fit with the counter, ribs on said crate providing a plurality of sections, and syrup containing receptacles adapted to be inserted in said crate independently of each other and when said crate is closed or opened and a facing rigidly secured on each receptacle adapted together with the adjacent facings to afford a finish for the crate.

8. In a device of the class described the combination with a counter of a syrup compartment therein, a crate pivoted to the counter and adapted to swing into said compartment, syrup containing receptacles therein, a seat rigidly secured to each receptacle adapted to support a glass thereon, said crate arranged so that said receptacles may be removed while the crate is secured in said compartment.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

JOSEPH A. McCORMICK.

Witnesses:

C. W. HILLS,

W. W. WITHENBURY.