

W. F. BYRNE.

Refrigerators for Restaurants, &c.

No. 140,243.

Patented June 24, 1873.

Fig. 1.

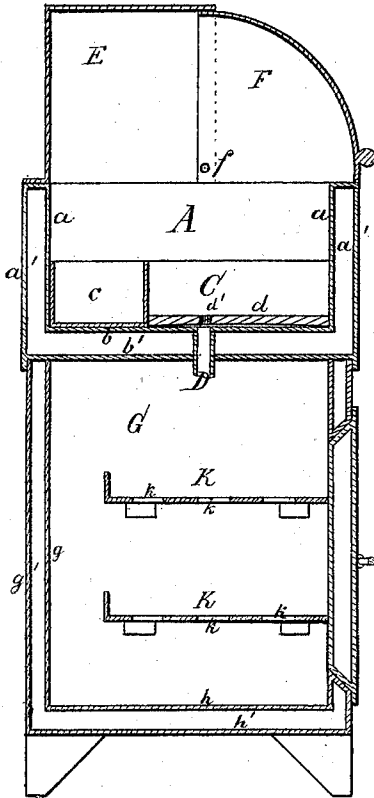


Fig. 2.

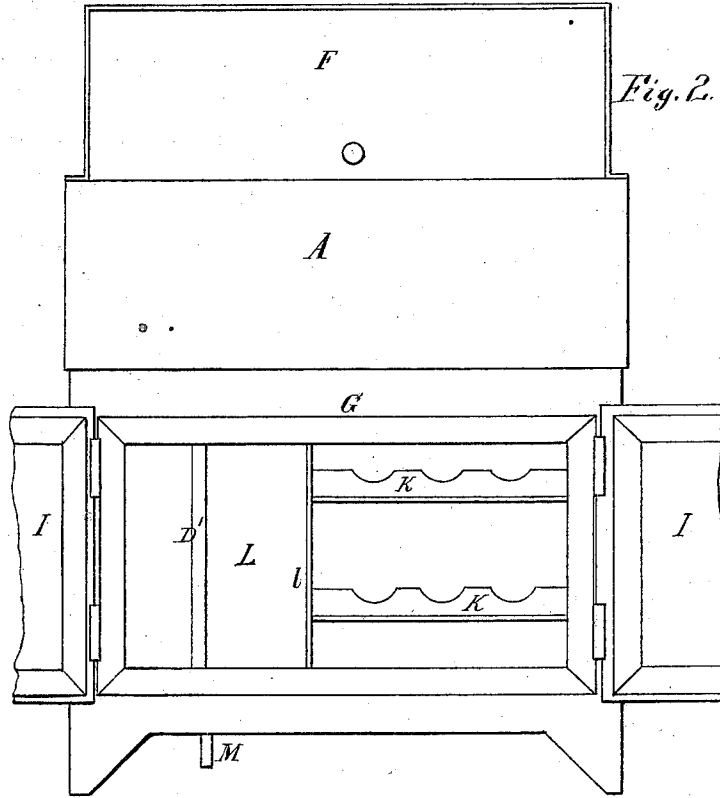
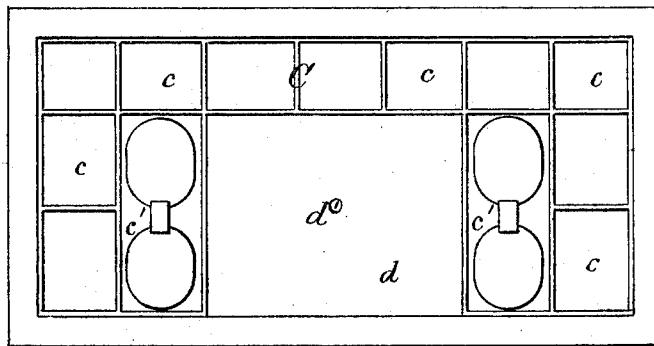


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM FRANK BYRNE, OF VICKSBURG, MISSISSIPPI.

IMPROVEMENT IN REFRIGERATORS FOR RESTAURANTS, &c.

Specification forming part of Letters Patent No. **140,243** dated June 24, 1873; application filed May 17, 1873.

To all whom it may concern:

Be it known that I, WILLIAM FRANK BYRNE, of Vicksburg, in the county of Warren and State of Mississippi, have invented a new and valuable Improvement in Ice-Boxes for Bar-Rooms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of my bar-room ice-box by a vertical central section. Fig. 2 is a front view of the same. Fig. 3 is a top view of the same without the cover.

My invention relates to ice-boxes and it consists in the novel arrangement and construction of an upper box, which is provided with a rotating cylindrical cover and a drop-case with divisions for the reception of bottles, dishes, &c., the contents of which are to be kept cool also with room for ice, and a leaden plate to break it on. A lower box with shelves and accommodation for larger vessels, which is cooled by drainage-water of the upper box, is connected with the same on the inside.

The object of my invention is to provide a bar-room with conveniently arranged closed shelving, by which the drinks in bottles or the usual admixtures or eatables may be kept cool and free from dust without being in an unhandy position.

In the drawings, A represents the top compartment, composed of the double side walls *a a'* and the double bottom *b b'*, between which there is a filling of charcoal or other non-conducting material. Into this compartment a box, C, is fitted with divisions *c* with a common bottom, and with divisions *c'* with bottom, the former of which serve for the reception of bottles with wines, brandies, cordials, &c., and the latter for the reception of double dishes, which are generally filled with mint or lemon. The space between the said partitions is filled with ice, which is placed on a leaden plate, *d*, having a slightly-concave surface to conduct the water to a hole, *d'*, in the center, where it is received by a drain-pipe, D—the compartment A, closed at the back part by a stationary cover, E, and in front by

a revolving cover, F, which is fastened with pivots *f* to the cover E, and slides entirely into the said cover when it is opened. Both of the said covers are provided with side walls, so that the compartment A can be perfectly closed. The lower compartment G is constructed in the same manner as the upper one, with reference to the side walls *g g'* and the double bottom *h h'*, which are likewise filled with a non-conducting material. The doors I are constructed with double walls, and the same kind of filling as the two compartments have. The shelves K in the compartment G are for the reception of plates and other dishes with pastry, fruits, and other eatables. They are provided with slots *k* to allow free entrance to cold air and a chance for accumulated moisture to flow off. The said shelves are movable, and may be entirely withdrawn; they also occupy only one part of the compartment, leaving a division, L, for other use, which is partitioned off by a slotted or otherwise perforated board or sheet, *l*, to allow free circulation of cold air, and which is provided with a raised perforated bottom to keep the articles placed therein away from the water, which is discharged on the real bottom of the compartment G by the drain-pipe D'. Another drain-pipe M serves to remove the water from the bottom of the compartment G to a sewer. The doors I and the cylindrical cover F are very well fitted, so as to allow as little chance as possible for communication of the cold air inside the compartments A and G with the surrounding atmosphere.

The cooler is made either of sheet metal, or of wood, with metal lining inside to prevent rotting from moisture, thin sheet-copper having the preference for this purpose; and the two boxes or compartments A G are well fitted together without being fastened, so they may be separated and removed at pleasure. For this said purpose the drain-pipes D and D' are made to slide one into another.

To make the ice-box as convenient as possible, I make it of the height of which the bars in bar-rooms are generally made, so it may be placed directly under the bar-table. The upper and lower compartments A and G may be fastened together by inside hooks or bolts, and the doors may be locked so as to

secure the contents against the ravages of intruders.

What I claim as new and desire to secure by Letters Patent is—

1. The arrangement of the two cooling boxes A and G, revolving door F, doors I, rear cover E, and the open box C, with the partitions *c* and *c'*, the leaden ice-plate *d* with the hole *d'*, the drain-pipes D, D', and M, the shelves K, substantially as specified.

2. The detachable cooling-boxes A G, constructed and arranged substantially as specified.

3. The arrangement of the box A and the removable box C, with the divisions *c* closed

at the bottom, and with space between for inserting the leaden ice-bearer *d*, as specified.

4. The combination of the lower box G with the drain-pipes D D', which effect the cooling of the said box by spreading the drained ice-water over the bottom, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM FRANK BYRNE.

Witnesses:

THO. J. FINNEY,

J. ADLER.