(No Model.)

F. W. MERRILL.

CREAM COOLER AND SODA FOUNTAIN.

No. 513,127. Patented Jan. 23, 1894.

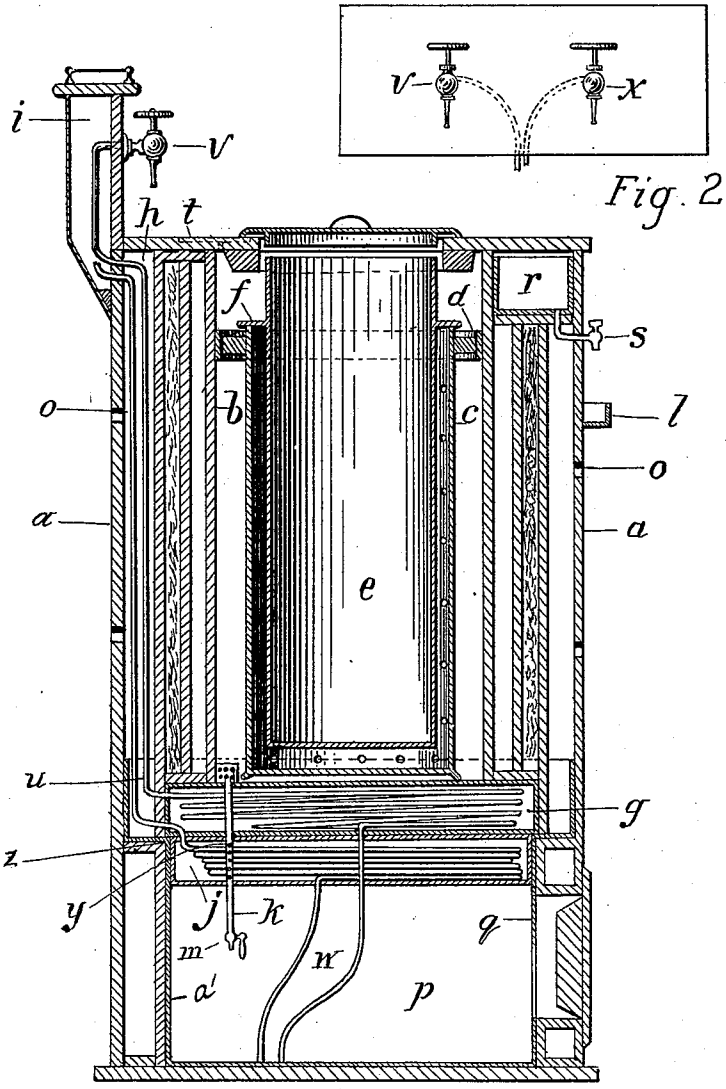

Fig. 2

Fig. 1

Witnesses
Nathan Clifford.
Grace L. Tolland.

Inventor
Frank W. Merrill.
By Elgin R. Merrill,
atty.

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK W. MERRILL, OF DEERING, MAINE.

CREAM-COOLER AND SODA-FOUNTAIN.

SPECIFICATION forming part of Letters Patent No. 513,127, dated January 23, 1894.

Application filed May 22, 1893. Serial No. 474,999. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. MERRILL, of Deering, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in a Combined Ice-Cream Cooler and Soda-Fountain; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in a combined ice cream cooler and soda fountain.

It consists in combining a soda fountain with an ice cream cooler in such manner that the ice which keeps the cream cool will also serve to cool the soda and sirups.

It further consists in certain details of construction hereinafter more fully described.

In the drawings herewith accompanying and making a part of this application Figure 1 is a central, vertical section of my improved ice cream cooler and soda fountain. Fig. 2 is a front elevation of the part above the ice tank showing arrangement of soda and ice water faucets.

In said drawings *a* represents a cabinet or case, *b* an ice tank formed by a series of vertical walls with spaces between filled with air, hair, or other non-conducting material, said tank being supported in any suitable manner in said case. Above said tank and resting on the top of said case is a cover *t* adapted to be removed therefrom when desired. Within the tank is placed a perforated jacket *c* having lateral braces *d* attached to the outside thereof and adapted to rest against the interior walls of said tank and thus keep the perforated jacket from lateral displacement. Within said jacket is placed an ice cream can *e* which has on its outside flanges *f* adapted to rest upon the top edges of said perforated jacket. Between the outside of the perforated jacket and the walls of the tank is a considerable space into which the ice is packed.

Attached to the bottom of the ice tank *b* is a cold air chamber *g* and a soda pipe *u* leads from a soda tank and coiling back and forth in said chamber *g* one or more times, thence leads out of said chamber to the back of the cabinet, and by way of air space *h* to the raised chamber *i*, and terminates in a suitable faucet *v*. Beneath said chamber *g* is a cold water chamber *j* into which leads a pipe *k* from the ice tank *b*, said pipe *k* having openings therein at points within said ice water chamber.

It will be seen that the ice cold water from the ice tank passes down through pipe *k* until the cold water chamber *j* is full. If at any time the water in chamber *j* becomes warmer than the water in the tank the warm water rises and the cold water descends to take its place. The water from the ice tank may be drawn off at any time by opening the valve *m* in pipe *k*.

Leading from a suitable water supply is a pipe *w* passing into said cold water chamber making one or more coils therein and thence passing up through said air space *h* to the raised chamber *i* at the top of the cabinet, and terminating in a suitable faucet *x*.

If desired the intermediate cold air chamber *g* may be omitted, the cold water chamber being attached to the bottom of the ice tank, the soda pipe and the cold water pipe both passing through the ice water chamber. The advantage of having the cold air chamber is that the possibility of the soda freezing in the ice cold water is obviated and yet the soda passing through the pipe in said cold air chamber is reduced to a very low temperature.

Arranged around the top of the cabinet, the inner walls thereof coming in contact with the walls of the ice tank, are sirup receptacles *r* out of which lead suitable taps *s*. Attached to the wall of the cabinet may be suitable shelves *l* arranged below said taps upon which the drinking glasses may rest while the sirup is being drawn.

To prevent the outside of the case from sweating I make ventilating holes *o* in the case at points near the bottom of the ice tank and near the top. In this manner all condensation of moisture takes place on the outside of the ice tank and passes down between the inside of the case and the ice tank into the chamber *p* at the bottom of the case. A metal lining *q* extends from a point above the bot-

tom of the ice tank over the ledges *z* upon which the ice tank rests and thence down the sides and over the bottom of the chamber.

The advantages of the devices herein shown are convenience, cheapness, neatness and economy in the amount of ice required.

I do not claim in this specification the part which relates to the storage of the cream as that is described and claimed in my application for an ice cream cooler and freezer, Serial No. 432,483, filed May 10, 1892.

I claim—

1. In a combined ice cream cooler and soda fountain, an outside case, an ice tank adapted to hold an ice cream can arranged within said case, a cold water chamber beneath said ice tank and in communication with said ice tank, and a soda pipe passing through said ice water chamber and thence out and upward between said case and said ice tank and terminating at a point above said case, as and for the purpose set forth.

2. In a combined ice cream cooler and soda fountain, an outside case, an ice tank supported therein, a perforated jacket set in said ice tank and having lateral braces bearing against the walls thereof, a closed ice water tank beneath said ice tank, and a pipe leading from the ice tank to said water tank, an intermediate cold air chamber between said ice tank and said ice water tank, and a soda pipe adapted to pass through said cold air chamber and thence up between said air case and ice tank, substantially as and for the purposes set forth.

3. In a combined ice cream cooler and soda fountain, an outside case, an ice tank adapted to hold an ice cream can suitably mounted in said case, an ice water chamber below said ice tank, a cold air chamber intermediate between said ice tank and ice water chamber, and a soda pipe passing through the cold air chamber, as and for the purposes set forth.

4. In a combined ice cream cooler and soda fountain, an outside case, an ice tank supported therein adapted to hold a cream can, an ice water chamber below said ice tank, a cold air chamber intermediate between said ice tank and ice water chamber, and sirup reservoirs arranged at the top between the outside case and the ice tank, as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

FRANK W. MERRILL.

Witnesses:
NATHAN CLIFFORD,
ELGIN C. VERRILL.