

R. L. PORTER & J. D. FAULKNER.  
ICE CREAM FREEZER.

Patented May 17, 1898.



INVENTORS:  
Robert L. Porter and  
Joseph S. Faulkner  
By Patrick Farrell  
Attorney

Fig. 3.



# UNITED STATES PATENT OFFICE.

ROBERT L. PORTER AND JOSEPH D. FAULKNER, OF GALENA, KANSAS.

## ICE-CREAM FREEZER.

SPECIFICATION forming part of Letters Patent No. 604,214, dated May 17, 1898.

Application filed March 2, 1897. Serial No. 625,731. (No model.)

*To all whom it may concern:*

Be it known that we, ROBERT L. PORTER and JOSEPH D. FAULKNER, citizens of the United States of America, residing at Galena, in the county of Cherokee and State of Kansas, have invented certain new and useful Improvements in Ice-Cream Freezers, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to improvements in ice-cream freezers; and it has for its object to simplify, improve, and cheapen the cost of construction of this class of freezers over the existing prior state of the art.

With these ends in view the invention consists in the novel construction and arrangements of the several parts, as will be hereinafter more fully described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view, partly broken away. Fig. 2 is a vertical sectional view. Fig. 3 is a detail view of one of the cream-holding tubes.

Similar letters of reference indicate corresponding parts in the several views.

Referring by letter to the accompanying drawings, A designates a rectangular box provided with three compartments, the central compartment *a* being somewhat larger than the two outside or adjacent compartments *a'* and *a''*. These compartments are formed by perpendicular metallic partitions *a<sup>3</sup>* and *a<sup>4</sup>*. The box is provided with vertical central slots B B at each end, these slots serving as bearings for the reception of journals in the ends of a rotating cylinder, which will be hereinafter more fully explained.

C C' are ways or guides secured upon the outside and centrally at each end of the box or casing A and adjacent to the slots B B, these ways or guides receiving adjusting slides or keepers *c c* for holding the journals of the cylinder, heretofore mentioned, in its proper place.

The compartment of the box or outside casing A is further provided with the usual hinged covers D D D in ordinary use.

E E' E<sup>2</sup> designate pivoted latches, one, or E, being pivoted to the box in front of the larger compartment, and the others, E' and E<sup>2</sup>, at each end thereof adjacent to the smaller compartments, as clearly shown in the draw-

ings. These latches serve as suitable fastening means for fastening down the covers when the freezer is in use. The box or casing is also provided with the usual legs F F F F for supporting the same.

G designates a rotary hollow cylinder, a section thereof being left open in a longitudinal direction, mounted within the larger compartment *a*, the journals *g g* being secured at each end thereof and fitting loosely in the vertical bearing-slots B B, one of said journals *g* terminating in an operating-crank H, by means of which the cylinder is revolved. This cylinder is provided with one or more longitudinal angular strips I, the ends of which are secured to the ends of the cylinder, the apex of the strips resting upon the inner wall of the circumference of the cylinder. These strips I serve as seats for a number of cream-holding tubes, the number used being more or less, according to the size of the cylinder in use.

J designates a cream-holding tube, the ends of which are left open in its construction, and around the outer surface of these ends are cut screw-threads, which are adapted to receive a cap. These caps are also screw-threaded correspondingly and fit tight and snugly upon the ends of the tubes, suitable packing of cork, rubber, or other similar material being interposed between the caps and the ends of the tubes within the caps, which act to prevent any liability of leakage. These tubes are grouped or arranged longitudinally with respect to each other around the inner wall of the cylinder sufficiently snug as to prevent accidental displacement.

K designates a hinged curvilinear cover which is hinged to the cylinder, as shown in the drawings, the curve therein corresponding to the curve in the cylinder, so that when the cover is closed over the opening in the cylinder the meeting edges of the cover and cylinder will lie flush with each other. The portion of the cylinder opposite the longitudinal opening is perforated sufficiently to allow the passage of waste water and other foreign matter from the cylinder.

L designates a latch curved to conform to the curve in the cover of the cylinder and pivoted at its near end centrally in a longitudinal direction to the rear portion, the for-



ward end of the latch having a curved notch therein which passes a pin secured in the cylinder in front of the cover, this latch serving to properly fasten down the cover when the  
5 cylinder is in use.

The smaller compartments  $a'$  and  $a^2$  serve as refrigerators for holding and keeping cool soft drinks, such as pop, soda, &c.

From the foregoing description, taken in  
10 connection with the accompanying drawings, the operation of our device will be obvious; but it may be briefly rehearsed as follows: Preparatory to freezing the cream the tubes are filled by removing one of the screw-caps  
15 of each tube, after which replace the caps and arrange the tubes in the freezing-cylinder as hereinbefore described, packing the same with ice and salt. Then close down the lid or cover of the cylinder and also the cover  
20 of the box or outside casing, when the freezing-cylinder is then revolved by means of the crank.

When it becomes necessary to remove the cream from the several tubes, remove both

caps of the tubes and then use a round rod, 25 pressing through the tubes, which forces the cream out.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In an ice-cream freezer, the combination of 30 a casing having compartments therein, with a rotary freezing-cylinder supported in bearings in the ends of the casing, adapted to revolve therein, the said cylinder having an op- 35 erating-crank, angular strips secured longitudinally therein, adapted to receive the cream-holding tubes, and longitudinal opening, provided with a cover and perforations opposite the said opening substantially and 40 for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ROBERT L. PORTER.

JOSEPH D. FAULKNER.

Witnesses:

J. H. YOUNG,

M. M. YOUNG.