(Model.)

A. L. PLATT.

ICE CREAM FREEZER.

No. 427,901. Patented May 13, 1890.

Fig. 1.

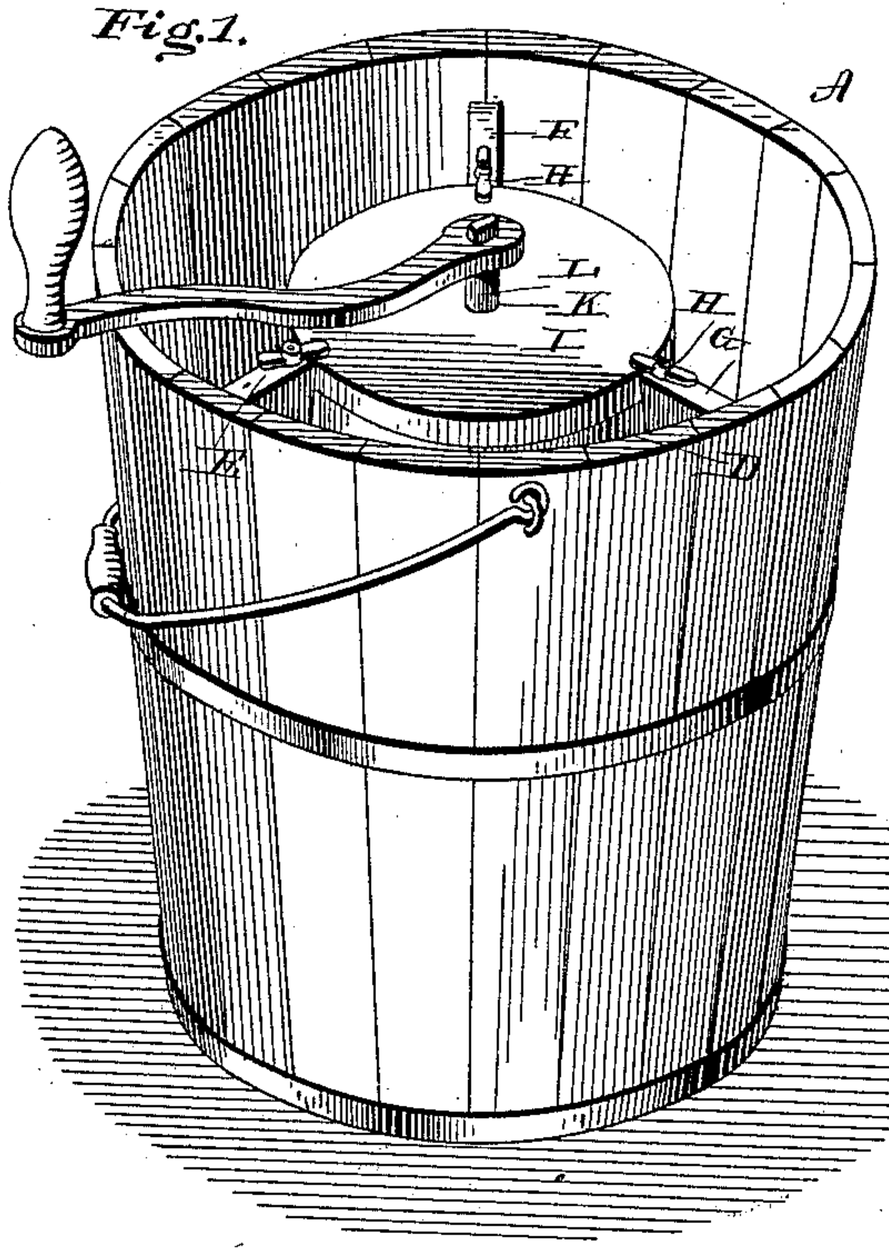


Fig. 2.

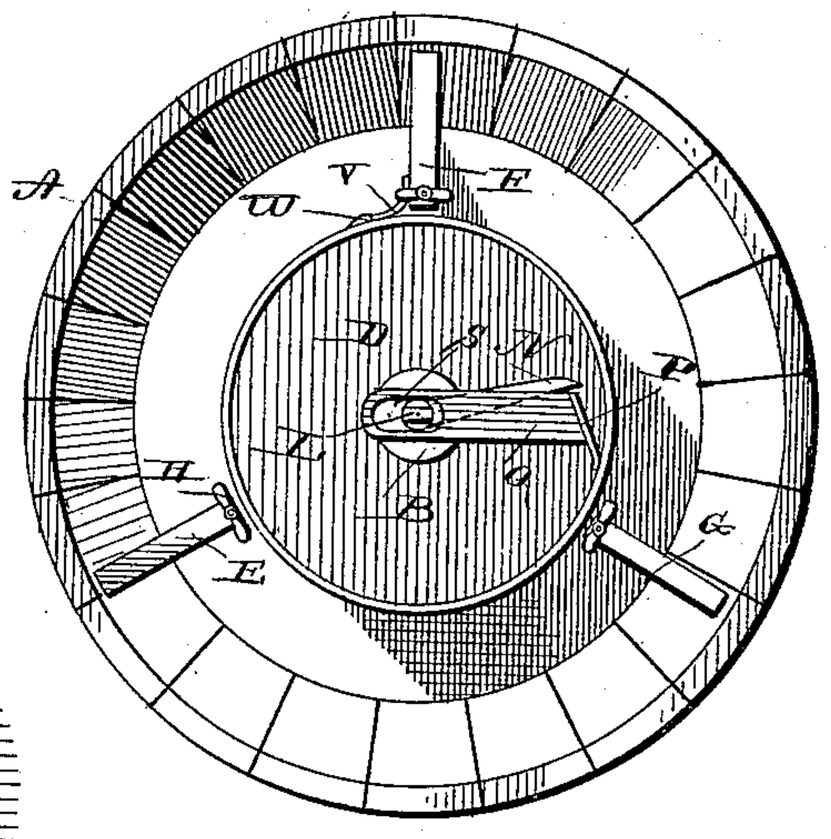


Fig. 3.

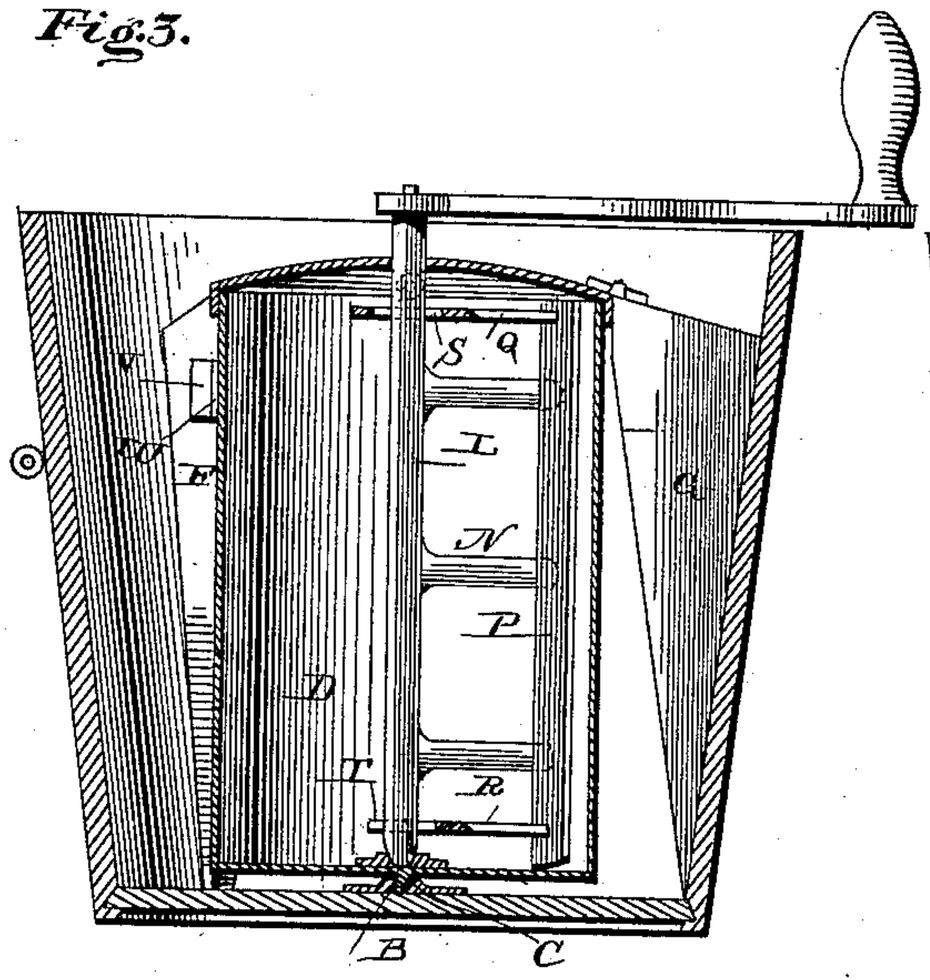
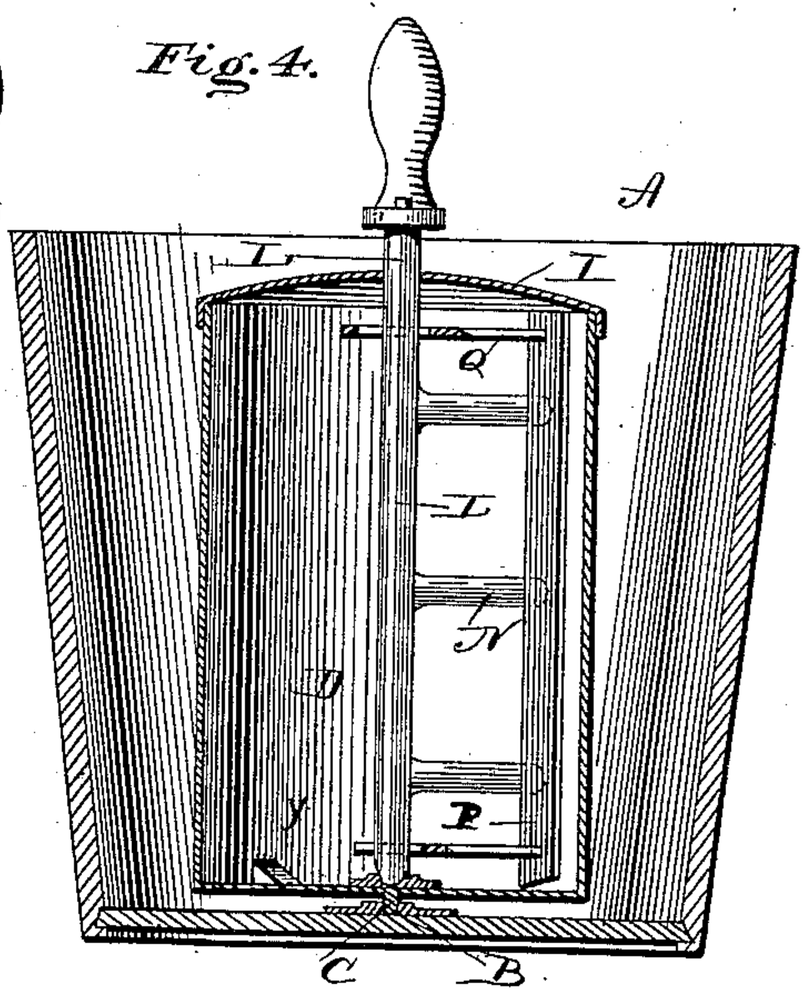


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALBERT L. PLATT, OF CLINTON, ILLINOIS.

ICE-CREAM FREEZER.

SPECIFICATION forming part of Letters Patent No. 427,901, dated May 13, 1890.

Application filed March 16, 1889. Serial No. 303,605. (Model.)

To all whom it may concern:

Be it known that I, ALBERT L. PLATT, a citizen of the United States, and a resident of Clinton, in the county of De Witt and State of Illinois, have invented certain new and useful Improvements in Ice-Cream Freezers; 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.

My invention has relation to ice-cream freezers; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully set forth in the specification, and pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of an ice-cream freezer embodying the improvements of my invention. Fig. 2 is a plan view. Fig. 3 is a vertical sectional view showing the internal construction of the device; and Fig. 4 is a similar view showing the bottom of the cream-can provided with an inclined stop, whereby the scraper in revolving in one direction slides over said stop and catches against the same when reversed.

In the drawings, A designates a wooden vessel—such as a bucket of ordinary construction, or it may be a vessel constructed of specially-designed dimensions. At the central point of the bottom of the bucket I provide a seat or depression B, in which the bearing-stud C on the lower face of the bottom of the can D is seated when the can D is in its proper place in the vessel or bucket A.

On the interior of the bucket or vessel A I provide three radially-disposed downwardly and outwardly tapered wooden strips or cleats E F G, their outer edges being made plain to fit accurately the interior wall of the bucket or vessel. Near their upper ends the strips or cleats are bounded on their inner edges by nearly vertical planes, against which the periphery of the can D bears when in place in the outer vessel or bucket A. Upon the upper ends of the cleats E F G, which are preferably inclined inwardly and upwardly from their outer to their inner edges, are provided thumb-buttons H, which are designed to be turned in over the edge of the cover I of the can D, to hold the cover I in place on the can. This cover I is provided with a centrally-located opening K, which forms the upper bearing for the stirrer-shaft L, the lower end of which is stepped in a cup or depression M in the bottom of the can D. The stirrer-shaft L is provided with horizontal projecting arms or beaters N, three being shown in this instance, although the number may be varied to suit the dimensions of the freezer—that is to say, a greater number of arms or beaters may be employed, if desirable or necessary.

P designates an inclined scraper, which is secured to the outer beveled or inclined ends of the upper and lower arms Q and R. The upper arm Q is provided with an elongated opening or slot S, through which the stirrer-shaft passes. The inner end of the lower arm R is recessed at T to receive the lower end of the stirrer-shaft.

One of the cleats or strips E, F, or G is provided near its upper end with a stop V, which engages a lug W on the periphery of the can and prevents the can D from turning backward, so that the scraper may be turned in the reverse or backward direction by reversing the direction of the movement of the stirrer, and will then operate to scrape the frozen cream from the wall of the can D and stir it until it attains the required degree of consistency or firmness, the can being then held stationary by the top V. The scraper is provided at its lower end with an incline or a slope that will result in the scraper P engaging a stop or keeper Y on the bottom of the can and will insure the can revolving with the scraper and preventing the cream being agitated by the scraper.

Having thus described the construction of my improved ice-cream freezer, the operation of the same is as follows: Revolving motion is imparted to the stirrer-shaft, and as the radially-extending arms thereof come in contact with the inner face of the inclined scraper it will have the effect of wedging the outer edge of the same against the inner face of the can, and will thus, as continued force is exerted, cause the shaft, scraper, and can to revolve in unison in one direction. In order to facilitate this operation, I have provided the stop or keeper Y, against which the

lower edge of the scraper bears. As the can is revolved, as above described, the cream freezes and adheres to the sides thereof in a thin sheet. If, therefore, the turning of the shaft is reversed, the end of the radial arms will strike against the inner or back edge of the inclined scraper, and, releasing the same, cause it to revolve independently of the can, the latter being held stationary by the stop and lug V and W, respectively. It will be seen that the stop or keeper Y is inclined or beveled, while the lower end of the scraper is correspondingly inclined, so that when the shaft is revolved in the manner last described, the end thereof will ride over the stop Y without revolving the can.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the outer vessel or bucket and the cream vessel or can provided with an external catch, of the radially-disposed tapered strips or cleats, one of which is provided with a stop for engaging the catch to prevent backward revolution of the can and the stirrer having the upper and lower arms engaging the stirrer-shaft, said upper arm provided with an elongated slot and the lower arm provided with an end recess, substantially as set forth.

2. The combination, with the outer vessel, provided with internal tapered strips, one of which is provided with an inwardly-projecting stop-plate, of the cream-vessel provided with a peripheral catch for engaging said stop to hold the cream-vessel and permit the arms of the stirrer to operate the scraper, substantially as specified.

3. The combination, with the outer vessel or bucket and the cream-vessel, of the stirrer-shaft, the obliquely-arranged scraper, and the upper and lower laterally-extending arms connecting said scraper with the stirrer-shaft, said upper arms being provided with an elongated slot and the lower arm with an end recess, substantially as set forth.

4. The combination, with the cream-vessel and the stirrer, of the scraper provided with upper and lower arms connecting the same with the stirrer, said upper arm being provided with an elongated slot and the lower arm with an end recess, substantially as set forth.

5. The combination, with the cream-receptacle and the stirrer, of the scraper provided with beveled lower edge and having laterally-extending upper and lower arms for engaging the stirrer-shaft, said upper arm being provided with an elongated slot and the lower arm with an end recess, and the inclined stop secured to the bottom of the cream-vessel, substantially as set forth.

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

ALBERT L. PLATT.

Witnesses:
WM. FITZ SIMONS,
F. A. HANGER.