

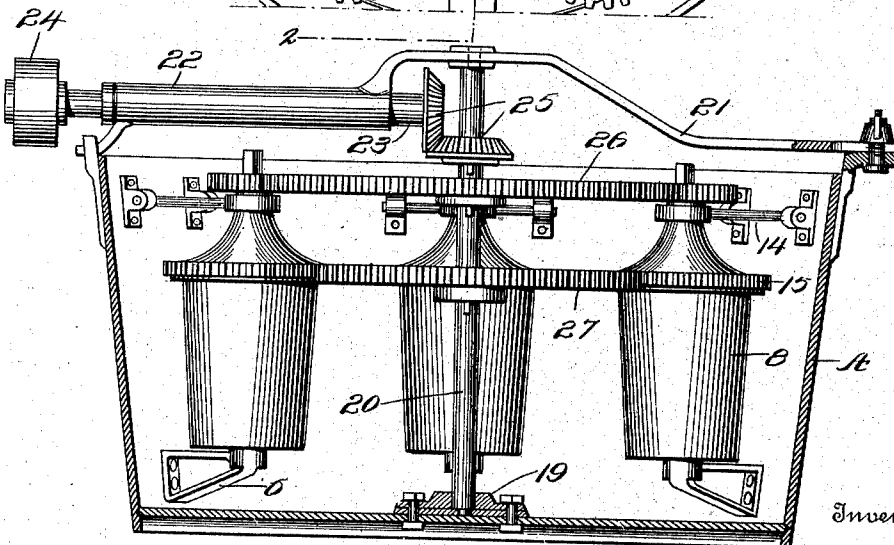
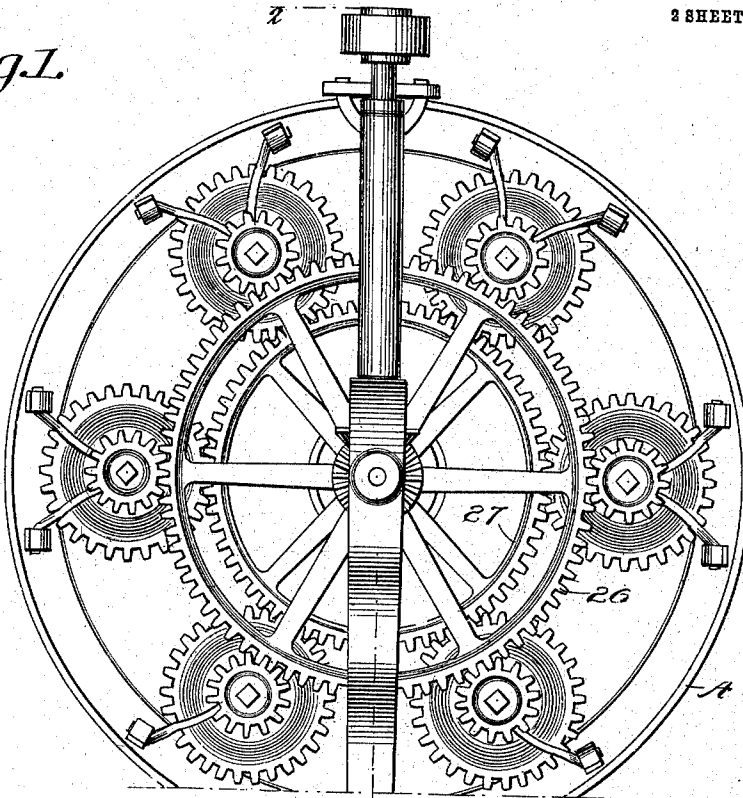
M. M. DICKINSON.
ICE CREAM FREEZER.
APPLICATION FILED OCT. 9, 1909.

967,003.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.

Fig. 1.



Inventor

Witnesses

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Fig. 2. Minnie M. Dickinson

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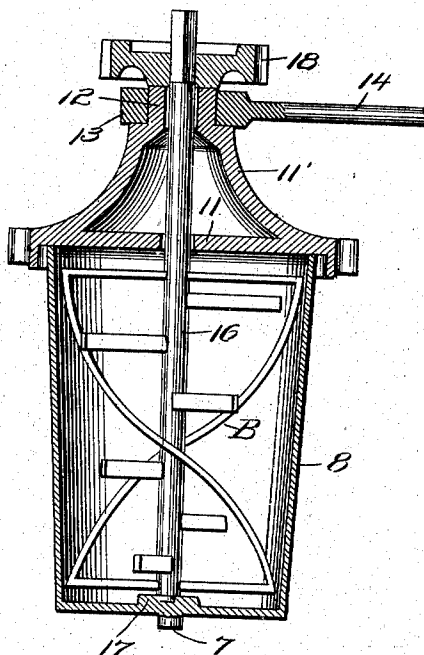


Fig. 3.

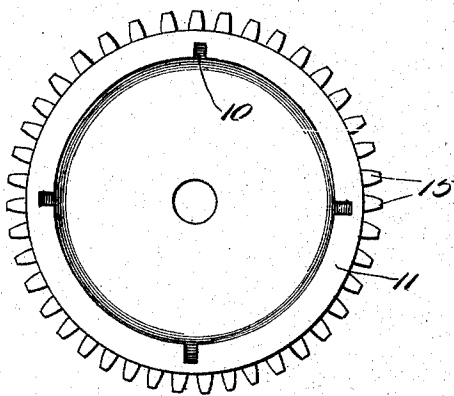


Fig. 4.

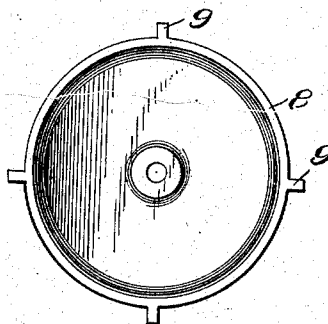


Fig. 5.

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UNITED STATES PATENT OFFICE.

MINNIE M. DICKINSON, OF EVANSTON, ILLINOIS.

ICE-CREAM FREEZER.

967,003.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed October 9, 1909. Serial No. 521,838.

To all whom it may concern:

Be it known that I, MINNIE M. DICKINSON, a citizen of the United States, residing at Evanston, in the county of Cook and State of Illinois, have invented new and useful Improvements in Ice-Cream Freezers, of which the following is a specification.

This invention relates to ice cream freezers, and a principal object of the invention is to provide a simple and thoroughly efficient device for freezing individual portions of ice cream.

A further object of the invention is to provide a device of the class referred to in which a plurality of receiving vessels shall be arranged for being simultaneously rotated in a tub or ice receptacle, each of the receiving vessels being equipped with a dasher which is mounted for rotation at a speed different from that of the receiving vessel.

A still further object of the invention is to provide a simple and convenient arrangement whereby the lids or covers of a plurality of receiving vessels shall be hingedly connected with the ice containing tub wherein the receiving vessels are supported for rotation.

Still further objects of the invention are to simplify and improve the construction and operations of a device of the character described.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being however understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings: Figure 1 is a top plan view of an ice cream freezer constructed in accordance with the invention. Fig. 2 is a vertical transverse sectional view taken on the plane indicated by the line 2—2 in Fig. 1. Fig. 3 is a vertical sectional detail view of one of the individual vessels detached. Fig. 4 is an inverted plan view of one of the lids of one of the receiving vessels. Fig. 5

is a top plan view of one of the receiving vessels.

Corresponding parts in the several figures are denoted by like characters of reference.

A tub A of suitable dimensions is provided near the bottom thereof with a plurality of interiorly disposed brackets 6, secured upon the walls and extending in the direction of the center of the tub; said brackets affording steps or bearings for gudgeons 7 that extend downwardly from the bottoms of the receiving vessels 8 which are intended to be made of suitable dimensions to hold an individual portion of cream, although it is obvious that the dimensions may be varied at will. Each receptacle 8 is provided adjacent to its upper edge with a plurality of laterally extending lugs 9 adapted to engage corresponding recesses adjacent to the lower edge of the lid 11, which latter when placed upon the vessel 8 will thus be held securely against rotation relatively to said vessel. The lid 11 of each vessel is formed with an upwardly extending cap or dome portion 11' having a terminal shank 12 which is supported for rotation in a bearing 13 formed at the free end of a bracket 14 which is hingedly connected with the wall of the tub A in registry with the supporting bracket 6. The rim or edge of the lid or cover 11 is toothed to form a spur gear 15. The lid 11 and the shank extension 12 of the same is axially apertured to afford a bearing for the shaft 16 of a suitably constructed dasher B which is stepped for rotation in a suitable bearing 17 upon the bottom of the vessel 8. The dasher shaft carries at its upper end a pinion 18 which is suitably connected therewith for rotation.

A bearing 19 is provided centrally upon the bottom of the tub A for a vertically disposed shaft 20 having an additional bearing in a cross bar or brace 21 which is suitably connected with the rim of the tub. Said cross bar or brace 21 is formed or equipped with a sleeve 22 affording a bearing for an approximately horizontal shaft 23 provided at one end with a crank or with means such as a pulley 24 for receiving motion from any suitable source of power; the opposite end of the shaft 23 being connected with the vertical shaft 20 by bevel gearing 25 which serves to transmit motion to said vertical shaft. The latter is equipped with spur wheels one of which 26 meshes with the pin-

ions upon the dasher shafts while the other spur wheel 27 is in mesh with the spur gears 15 upon the lids of the individual freezers.

From the foregoing description taken in connection with the drawings hereto annexed the operation and advantages of this invention will be readily understood. By this device individual portions of cream of the same or different flavors may be quickly and effectively frozen. To afford access to the individual receptacles, the cross bar or brace 21 is removed after which the vertical shaft carrying the spur wheels 26 and 27 may be lifted out; the brackets upon which the lids of the individual vessels are supported for rotation may now be swung out of the way against the wall of the tub A, and the vessels 8 will now be conveniently accessible for filling or for removing the frozen cream.

As already stated, it is obvious that the individual vessels may be made of much larger capacity than is necessary to contain an individual portion of cream; and other changes that lie within the province of the mechanic may be made without departing from the spirit or scope of the invention.

Having thus described the invention, what is claimed is—

1. In a device of the character described, a tub, a plurality of brackets supported upon the wall of the tub adjacent to the bottom and equal distances apart, vessels supported for rotation upon the brackets,

brackets hingedly connected with the wall of the tub adjacent to the rim and in alinement with the lower brackets, lids connected for rotation with the vessels and supported rotatably by the hinged brackets, dashers connected with the lids for rotation axially with reference to said lids, a driven-shaft centrally disposed within the tub, and means for transmitting motion from the shaft to the dashers and to the lids and through the latter to the vessels.

2. In a device of the character described, a tub, a plurality of brackets supported interiorly upon the wall of the tub adjacent to the bottom, vessels stepped for rotation upon the brackets, a plurality of brackets connected hingedly with the wall of the tub adjacent to the rim and in alinement with the lower brackets, lids connected for rotation with the vessels and supported rotatably in the hinged brackets, dashers supported for rotation in the lids axially with reference thereto, pinions upon the upper ends of the dasher shafts, spur gears formed upon the lids, a centrally disposed driven shaft, and spur wheels upon said shaft meshing with the pinions of the dashers and the spur gears upon the lids.

In testimony whereof I affix my signature in presence of two witnesses.

MINNIE M. DICKINSON.

Witnesses:

B. DYER,

ANNA TROST.