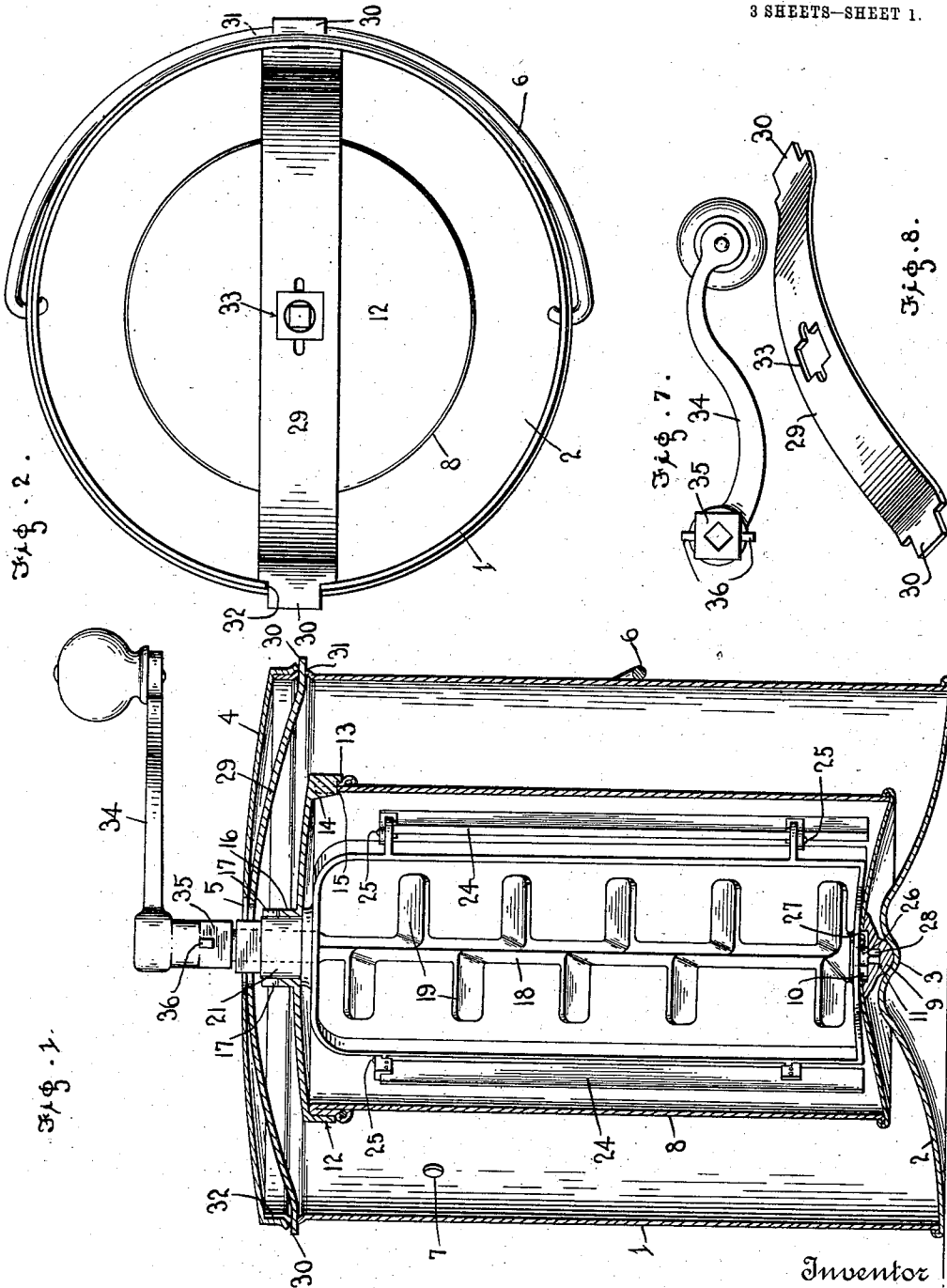


J. N. BEEKMAN.
ICE CREAM FREEZER.
APPLICATION FILED APR. 10, 1911.

1,017,494.

Patented Feb. 13, 1912.

3 SHEETS—SHEET 1.



Witnesses
L. B. James.
O. B. Hopkins.

J. N. Beekman
by *A. B. Blaisont*
Attorneys

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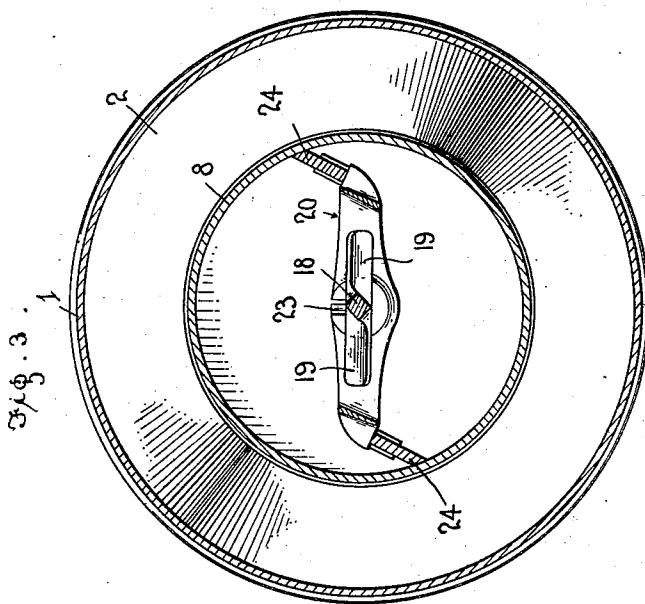
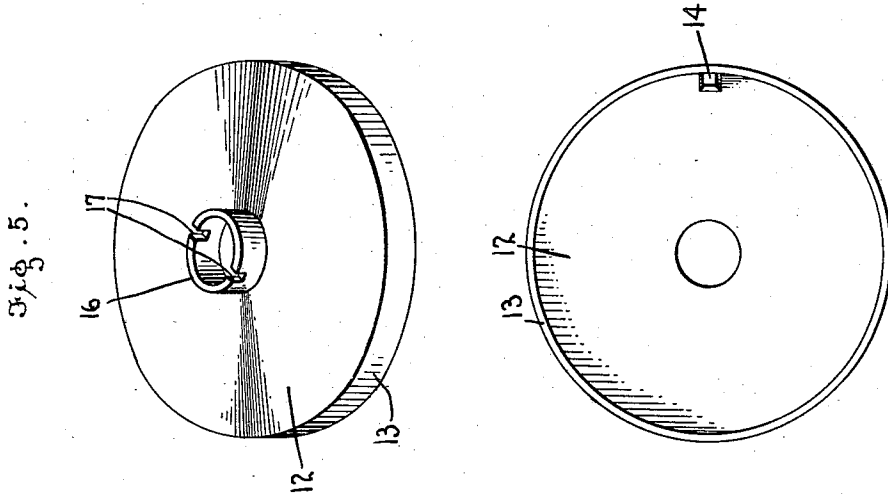


Fig. 6.

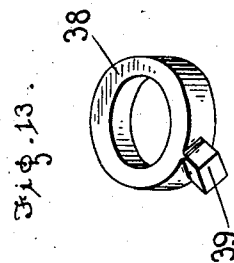


Fig. 13.

Witnesses
L. B. James
O. B. Hopkins

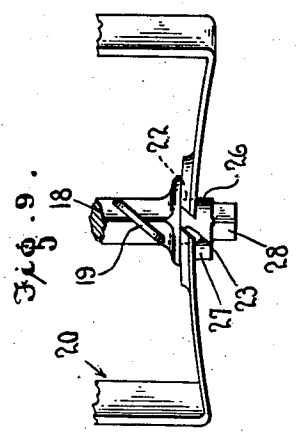
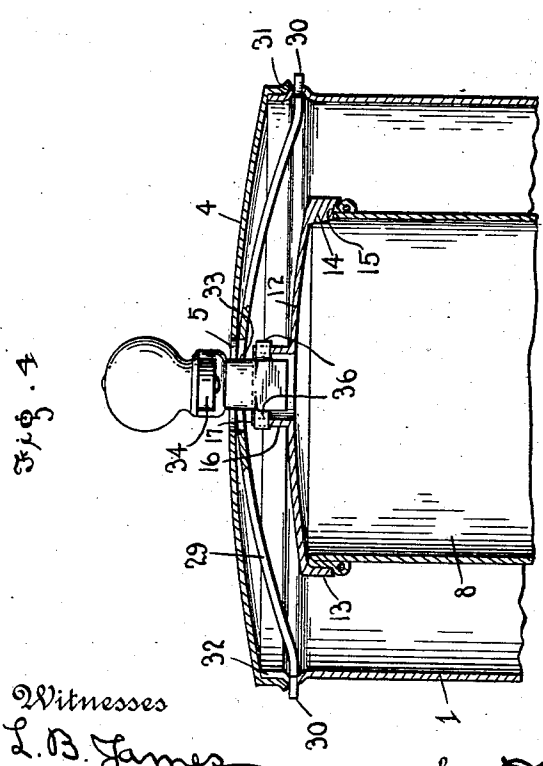
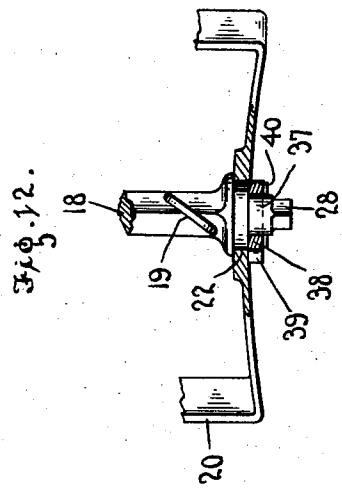
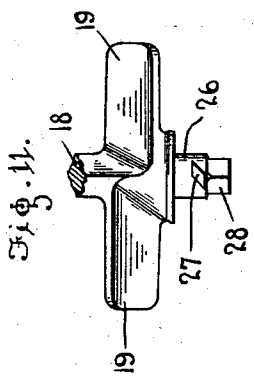
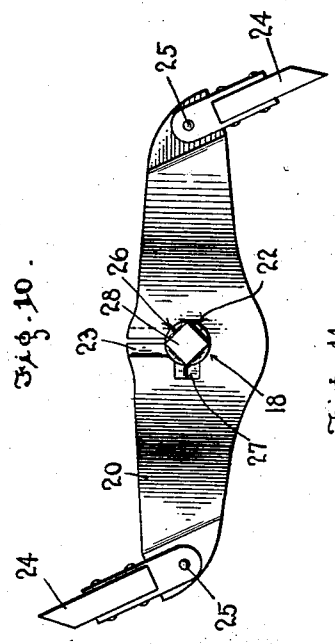
Inventor
J. N. Beekman

by *H. B. Wilson & Co.*
Attorneys

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3 SHEETS—SHEET 3.



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L. B. James
O. B. Hopkins

Inventor
J. N. Beekman
by *H. B. Wilson & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

JOHN N. BEEKMAN, OF BROOKLYN, NEW YORK.

ICE-CREAM FREEZER.

1,017,494.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed April 10, 1911. Serial No. 620,057.

To all whom it may concern:

Be it known that I, JOHN N. BEEKMAN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Ice-Cream Freezers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in ice cream freezers.

One object of the invention is to provide an ice cream freezer having an improved construction of operating mechanism whereby a triple action is obtained without the use of gears.

Another object is to provide an improved means for revolving the can after the dasher has been removed thereby quickly completing the freezing operation.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a central vertical section of a freezer constructed in accordance with my invention; Fig. 2 is a top plan view with the operating handle and top of the can removed; Fig. 3 is a horizontal sectional view; Fig. 4 is a central vertical section of the upper portion of the freezer after the dasher has been removed and the handle engaged with the dasher can for revolving the latter; Fig. 5 is a perspective view of the cover of the can; Fig. 6 is a bottom plan view of the same; Fig. 7 is a similar view of the operating handle; Fig. 8 is a perspective view of the brace bar for supporting the upper ends of the dasher shafts and holding the outer dasher member against revolution; Fig. 9 is a side view of the lower portion of the dasher members; Fig. 10 is a bottom plan view of the dasher members; Fig. 11 is a detail side view of the lower end of the inner member of the dasher; Fig. 12 is a vertical sectional view through the lower end of the dasher members showing a modified construction and arrangement of the means for retaining the inner member of the dasher in the outer member; Fig. 13 is a de-

tail perspective view of the retaining ring shown in Fig. 12.

Referring more particularly to the drawings 1 denotes the tub or outer can of the freezer, preferably formed of galvanized sheet metal and in any desired size. The bottom 2 of the tub is preferably concaved or bulged inwardly and has formed therein a central bearing recess or depression 3. The tub is provided with a convex cover 4 having a central opening 5, and a handle 6, and has, near its upper end an overflow opening 7. Arranged in the tub 1 is an inner cream receiving can 8 the bottom of which is concaved and has formed around its edge an upwardly turned flange as shown. Secured in the center of the bottom of the can is a bearing stud or pivot 9 which is adapted to engage in the recess 3 in the bottom of the tub 1. In the inner side of the stud 9 is formed a circular recess 10 and a rectangular socket 11. The can 8 is provided on its upper end with a heavy cover 12 having on its outer edge an annular flange 13 which fits down over the upper end of the can as shown. On the inner side of the cover at one edge of the same is formed a lug 14 which is adapted to fit into a notch 15 formed in the upper end of the can thereby locking the cover against rotary movement on the can. In the center of the cover is formed a circular aperture around which is formed an upwardly projecting annular flange 16 having therein oppositely disposed notches 17 shown in Figs. 1, 4 and 5.

Arranged in the can 8 is a dasher comprising an inner member 18 consisting of a shaft having formed thereon a series of laterally projecting agitating blades 19, the blades of one side of the shaft being disposed opposite to the spaces between the blades on the other side. The blades 19 are preferably formed at an angle as shown. On the shaft of the dasher is arranged an outer member 20, in the form of an open oblong frame having on its upper end a tubular shank 21 the lower portion of which is of cylindrical form and the upper portion squared as shown. In the lower end of the outer member 20 is formed a circular passage 22 with which is connected the inner end of an angular slot 23 which opens through one side of the end of the frame as shown. On the opposite sides of the outer

member 20 are arranged wooden scraping blades 24 having beveled outer edges adapted to engage the inner surface of the can when the latter is revolved. The scraping blades are pivotally connected to supporting lugs 25 arranged on the sides of the outer member, said lugs having squared surfaces with which the inner edges of the blades are adapted to be engaged thus permitting said blades to have only a limited movement on their pivots.

The lower end of the shaft of the inner member of the dasher is provided with a reduced bearing extension 26 the upper portion of which is of cylindrical form and is adapted to revolvably engage in the passage 22 in the lower end of the outer member of the dasher. On the cylindrical portion of the extension is formed a laterally projecting locking lug 27 which when the dasher shaft is in place will engage the under side of the lower end of the outer member and thus prevent the inner member from becoming casually disengaged from the outer member. The lug 27 is let through the slot 23 when the parts are engaged. The lower end of the extension 26 is squared as at 28 and adapted to fit into the rectangular socket 11 of the pivot 9 in the bottom of the can thereby locking the can and inner member of the dasher together so that they will turn together. When the squared end of the extension 26 is engaged in the socket 11, the lug 27 will be in the recess 10 in the bottom of the can, provided for this purpose. The upper end of the shaft of the inner dasher member projects up through and is loosely seated in the tubular shank 21 on the upper end of the outer member and projects above said shank and is squared to receive an operating handle.

When the dasher members are arranged in the can 8 the cover is placed on the can and locked in the manner described when the tubular shank 21 will project up through the flanged opening in the cover as shown. After the dashers have thus been arranged in the can 8 the latter is placed in position in the outer can with the bearing stud 9 in the bearing recess 3 in the bottom of the tub. When thus arranged the upper portion of the can is supported in position by a transversely disposed upwardly curved brace bar 29 having on its outer ends locking tongues 30 adapted to be engaged in slots 31 and 32 in the opposite sides of the tub as shown. In the center of the brace bar 29 is formed a rectangular opening 33 adapted to receive the squared upper portion of the shank 21 thereby holding the outer member of the dasher against revolution, when the inner member of the dasher and the can 8 are turned. When thus arranged the squared upper end of the shaft of the inner member of the dasher will pro-

ject up through the cover of the tub and is adapted to receive an operating crank or handle 34 having on its inner end a rectangular socket 35 which fits over said squared end whereby, when said handle is turned, the inner dasher member and the can will be revolved while the outer dasher member is held against rotation by the brace bar 29 as hereinbefore described. After the cream has been frozen to the proper degree the dasher members are removed from the can and the socket 35 of the handle 34 engaged and locked in engagement with the top of the can 8 by means of laterally projecting lugs 36 formed on the opposite sides of the lower portion of the socket 35 engaging in the notches 17 formed in the flange 16 of the cover 12 of the inner can, as clearly shown in Fig. 4 of the drawing, when the can may be revolved to complete the freezing of the cream. By arranging the dasher members and can 8 in the manner described a triple action is imparted when the handle is applied to the inner member of the dasher and turned in the proper direction.

In Figs. 12 and 13 of the drawings is shown a slightly modified means for connecting the lower end of the outer member, the cylindrical portion of the extension 37 on the lower end of the dasher shaft of the inner member 18 being reduced and loosely engaged in a retaining ring 38 having on one side a retaining lug 39 adapted to engage the under side of the lower end of the outer member and to serve the same purpose as the lug 27 shown in the first figures of the drawing. The ring 38 is preferably held in operative engagement with the reduced portion of the extension 37 by a pin 40 or other suitable fastening means.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In an ice cream freezer, an outer tub, a cream can revolvably mounted therein, a cover lockable to the can having a central opening and a cylindrical flange projecting upwardly around the opening and provided with notches in its upper edge, a dasher removably mounted in the can, and a handle provided with means for connecting it with the dasher to revolve the same and having lateral lugs to engage the notches in the cylindrical flange of the cover when the dasher is removed therefrom.

2. In an ice cream freezer, an outer tub having opposite slots near its upper edge, a cream can and a removable dasher mounted in the tub and connected for joint revolution, the dasher having a square upper end, a handle having a square socket to fit over the upper end of the dasher, an upwardly bowed brace fitting in the slots in the tub and having a central opening to permit of the passage of the stem of the handle, said stem having opposite lateral lugs, and means on the can to engage said lugs to revolve the can when the dasher is removed therefrom.

15 3. In an ice cream freezer, an outer tub, a cream receiving can revolubly mounted therein, said can having in its lower end a squared socket, a cover having a locked engagement with the upper end of said can, said cover having therein a centrally disposed passage, a flange arranged around said passage, said flange having formed therein oppositely disposed notches, inner and outer dasher members arranged in said
20 can, means to operatively connect said inner dasher member with the can whereby said parts are revolved in unison, a tubular shank formed on said outer dasher member, a squared extension formed on the upper end

of said inner dasher and projecting above 30 the tubular shank of said outer member, a bracing bar adapted to be secured at its ends in the sides of said tub, said brace bar having formed therein a rectangular passage adapted to receive the rectangular portion 35 of the tubular extension of the outer dasher member whereby said member is held against turning, a cover arranged on said outer tub, said cover having formed therein a passage to receive the extended end of the 40 inner dasher member, a handle having a squared socket adapted to be engaged with the extension of said inner dasher member whereby the latter and the cream receiving can are revolved, and lugs formed on the 45 socket of said handle and adapted to be engaged with the notches in the flange of the cover on the can whereby the latter may be turned when the dasher members are removed therefrom. 50

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN N. BEEKMAN.

Witnesses:

WILLIAM TREXLER,
CHARLES F. DOLSON.