

G. GUINOT.  
Ice Cream Freezers.

No. 135,474.

Patented Feb. 4, 1873.

Fig. 1.

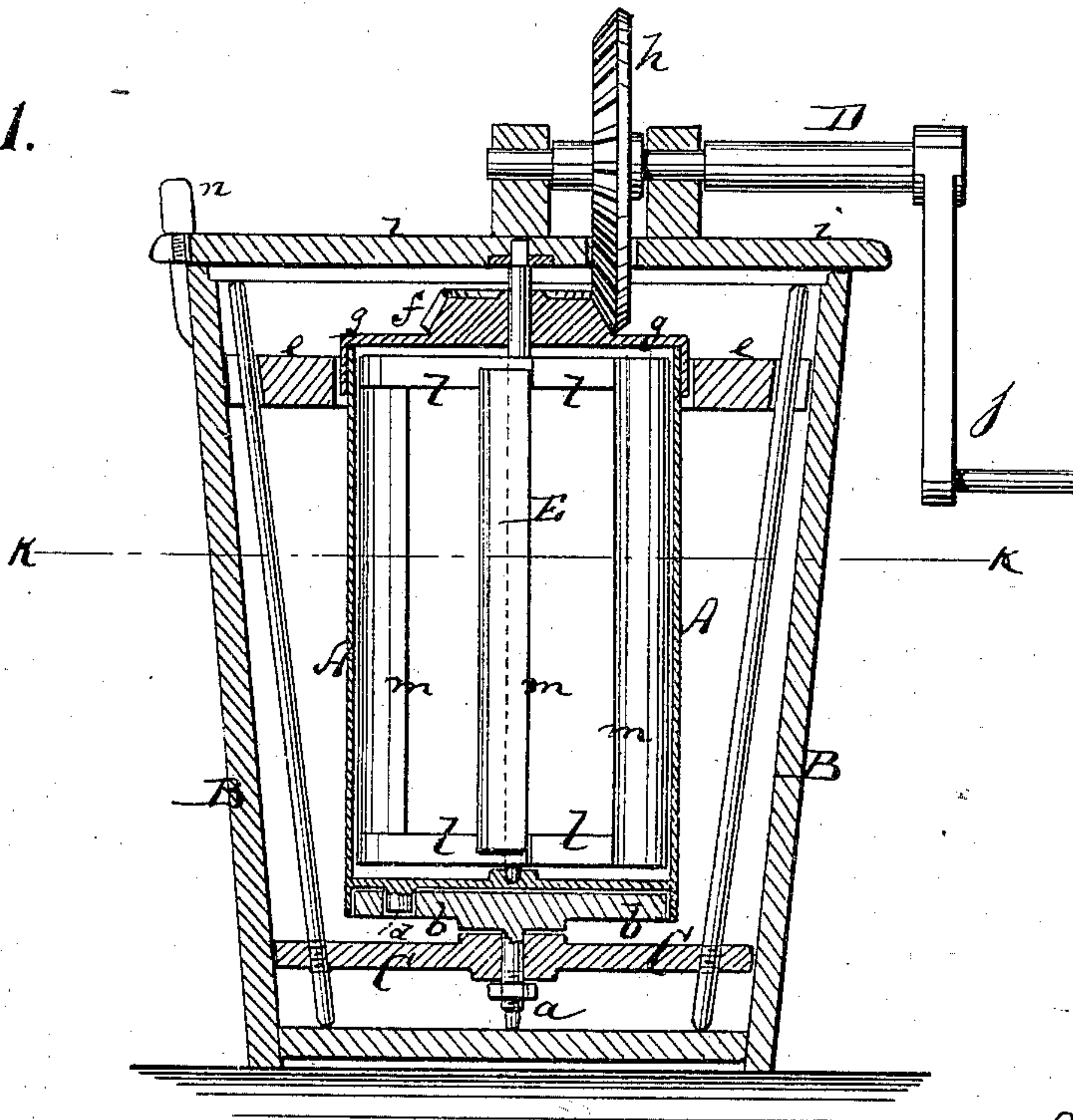


Fig. 3.

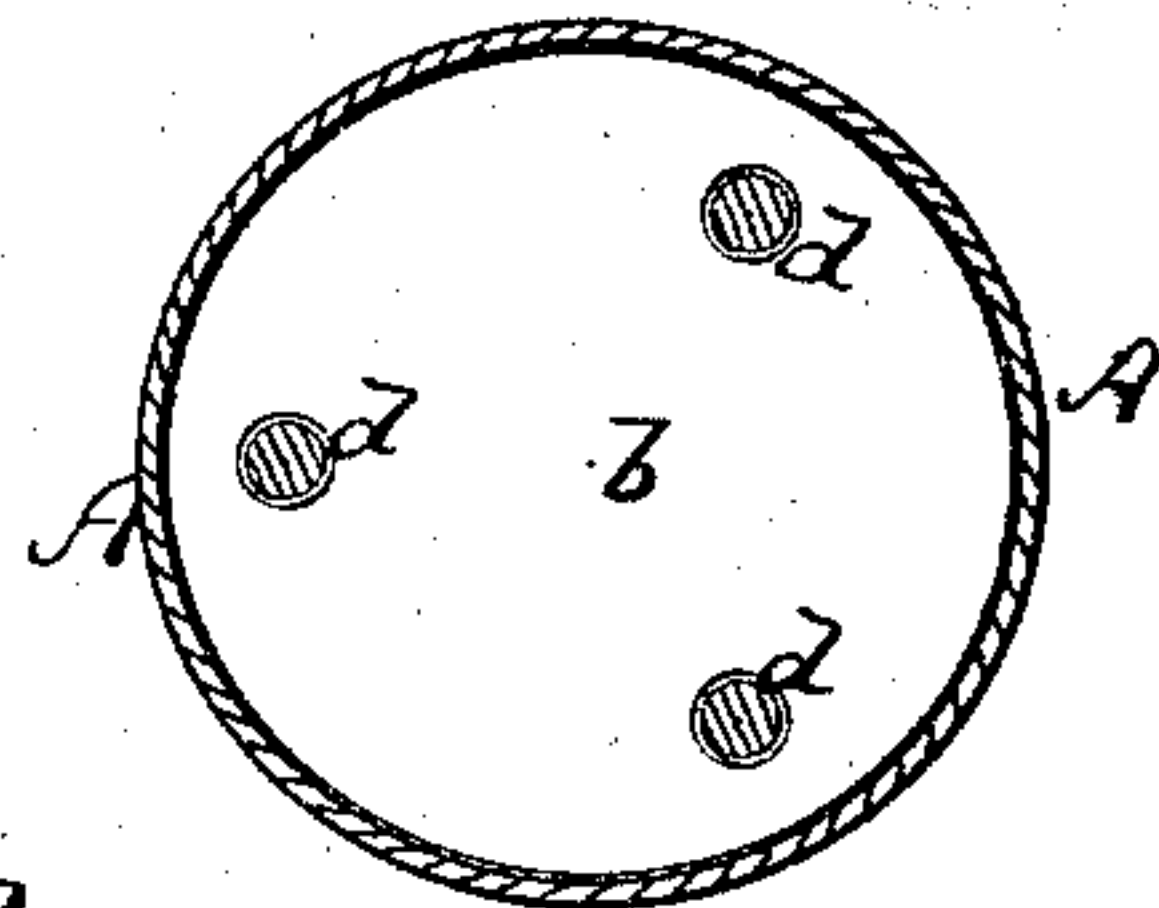
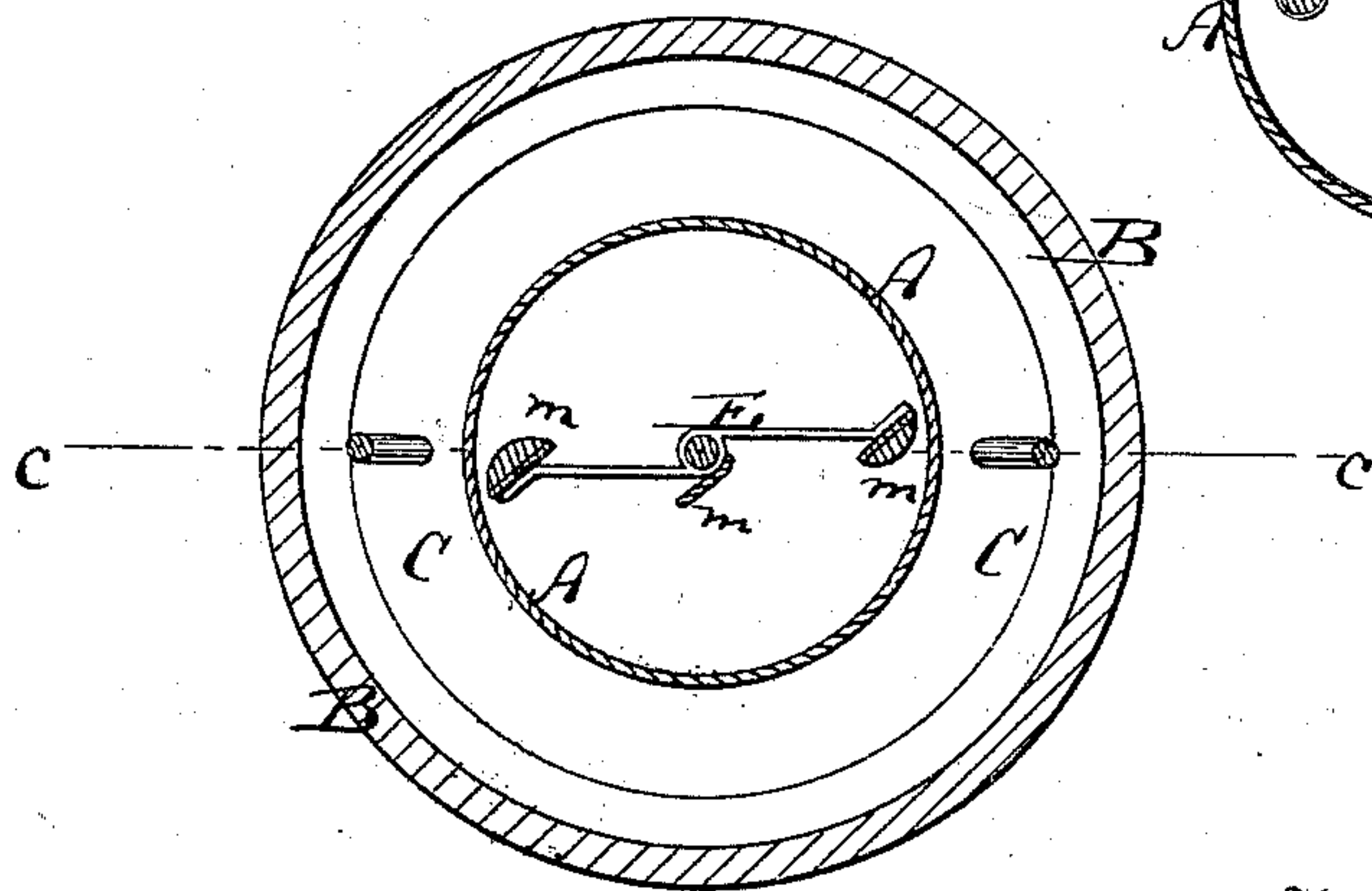


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

GEORGES GUINOT, OF MILTON, FLORIDA.

## IMPROVEMENT IN ICE-CREAM FREEZERS.

Specification forming part of Letters Patent No. 135,474, dated February 4, 1873.

*To all whom it may concern:*

Be it known that I, GEORGES GUINOT, of Milton, in the county of Santa Rosa and State of Florida, have invented a new and Improved Ice-Cream Freezer, of which the following is a specification:

Figure 1 is a vertical central section of my improved ice-cream freezer, the line C C, Fig. 2, indicating the plane of section; Fig. 2 is a horizontal section of the same taken on the line k k, Fig. 1; and Fig. 3 is a bottom view partly in section of the rotary cream-holder.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for producing ice-cream or other substances by the rotation of a cylindrical vessel within a congealing-substance, and consists in a new general combination of parts, of which the cylindrical cream-holder, the stationary interior scraper, a pair of cog-wheels, and means for centering the cylinder are especially mentionable.

In the drawing, the letter A represents a cylindrical vessel of suitable size, made of sheet metal or other material, and, by preference, with double walls, so that when it is removed from the freezing-tub it may preserve the cream in a frozen state longer than it would if not provided with double walls. B is the containing-tub, made of wood or other material, and of such size that the cylinder A can be conveniently placed therein, as shown. This tub B is provided with a sort of false bottom, C, in which a vertical central pin, *a*, carrying at its upper end and above the bottom C a disk, *b*, is centered. This disk serves as a direct support for the cylinder A, and has three—more or less—holes or cavities formed in it for the reception of as many pins, *d*, that project downward from the bottom of the vessel A. Thus, when the latter vessel is placed upon the disk *b*, so that its pins *d* enter the holes of said disk, the cylinder will be centrally supported in the tub B, and will, when revolved, carry the disk *b* around with it. The upper part of the vessel A is furthermore guided or centered in an annular plate, *e*, which is secured in the tub B, as shown. *f* is a bevel-gear wheel rigidly fastened to the upper end of the cylinder A—that is to say, to the cover *g* of the same. A bevel-wheel, *h*, which is mounted upon a shaft, D, that hangs in bearings above the cover *i* of the tub, ex-

tends down through said cover and meshes into the teeth of the wheel *f*, so that when the crank-handle *j* of the shaft D is rotated by muscular or other power the cylinder A will be more rapidly revolved within the tub, the difference in the velocity of A depending upon the difference of the size of the two bevel-wheels. E is a vertical shaft or rod standing in the center of the cylinder A and extending through the top or cover of the same into the cover *i* of the tub, within which the squared upper end of said rod enters in such manner that it cannot revolve while the cylinder A is being revolved around it. The rod E serves to support directly, and by projecting arms *l*, a series of vertical scrapers *m m*, which are set obliquely against the direction of rotation of the cylinder.

When the matter to be congealed has been placed within the cylinder A and the latter closed by its cover *g* and placed upon the disk *b*, and after the ice or other congealing-substance has been placed within the tub B, around the cylinder A, and the cover *i* applied to and fastened down upon the tub by means of thumb-screws *n n* or otherwise, the apparatus is ready for operation. The crank-handle *j* is revolved with suitable rapidity, and the cream thereby carried around, within, and by the cylinder A, being meanwhile thoroughly and constantly plowed and displaced by the scrapers *m m*, which remain stationary within the revolving cylinder. After the cream has been sufficiently congealed the vessel A can be removed from the tub and conveyed to a suitable place, and another cylinder, A, can be placed within the tub, so that the operation can be continued *ad libitum*.

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

1. An ice-cream freezer, composed of the tub B, rotary disk *b*, revolving cylinder A, cog-wheels *f h*, and stationary scrapers *m m* on the stationary rod E, all arranged to operate substantially as herein shown and described.

2. The cylinder A, provided with downwardly-projecting pins *d*, which enter cavities in the bearing-disk *b*, as specified.

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