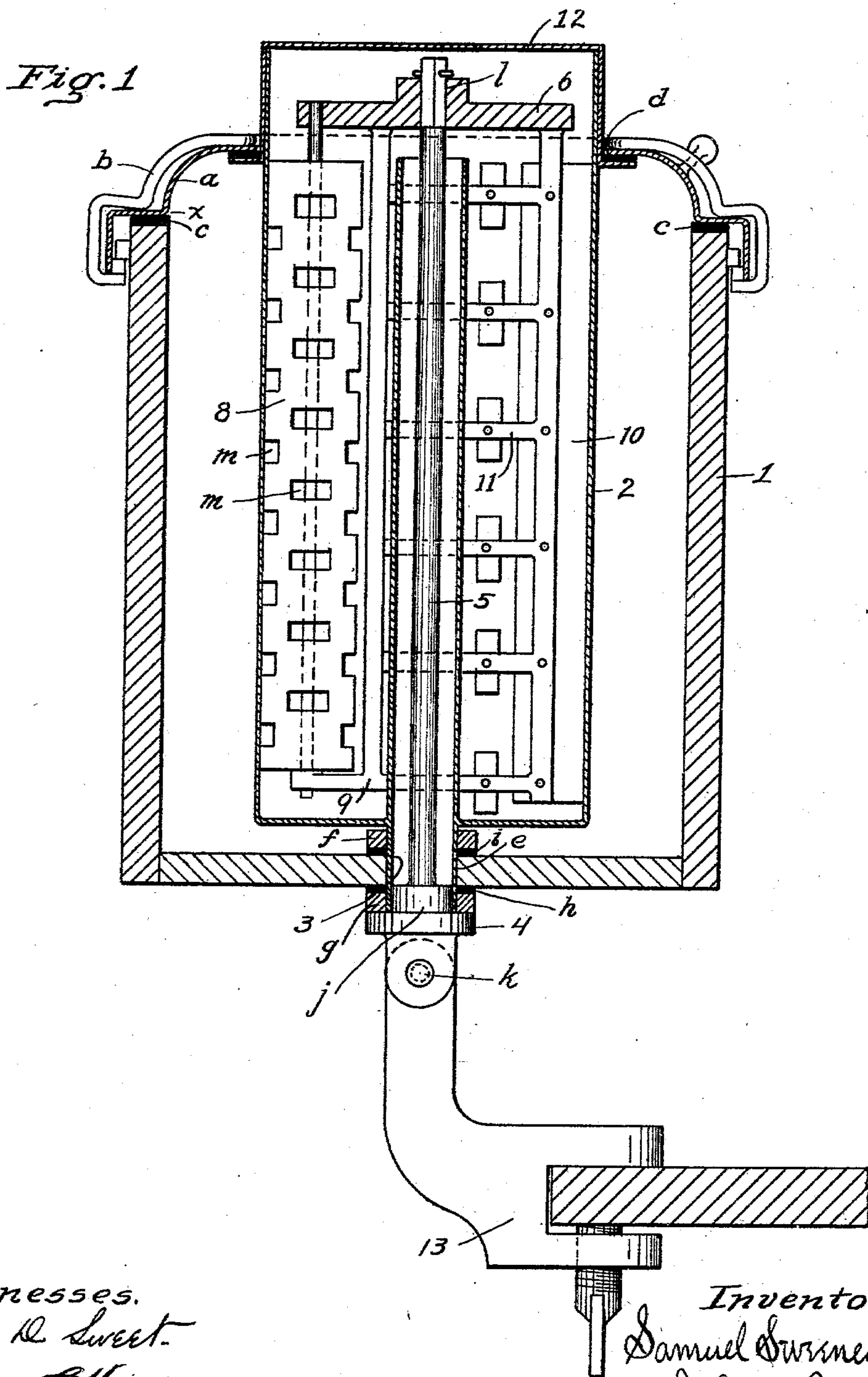


S. SWEENEY.
ICE CREAM FREEZER.

APPLICATION FILED AUG. 8, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses.
Fred R. Sweet.
James C. Heron.

Inventor.
Samuel Sweeney
by John H. Roney
his Attorney.

No. 720,856.

PATENTED FEB. 17, 1903.

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2 SHEETS—SHEET 2.

Fig. 2

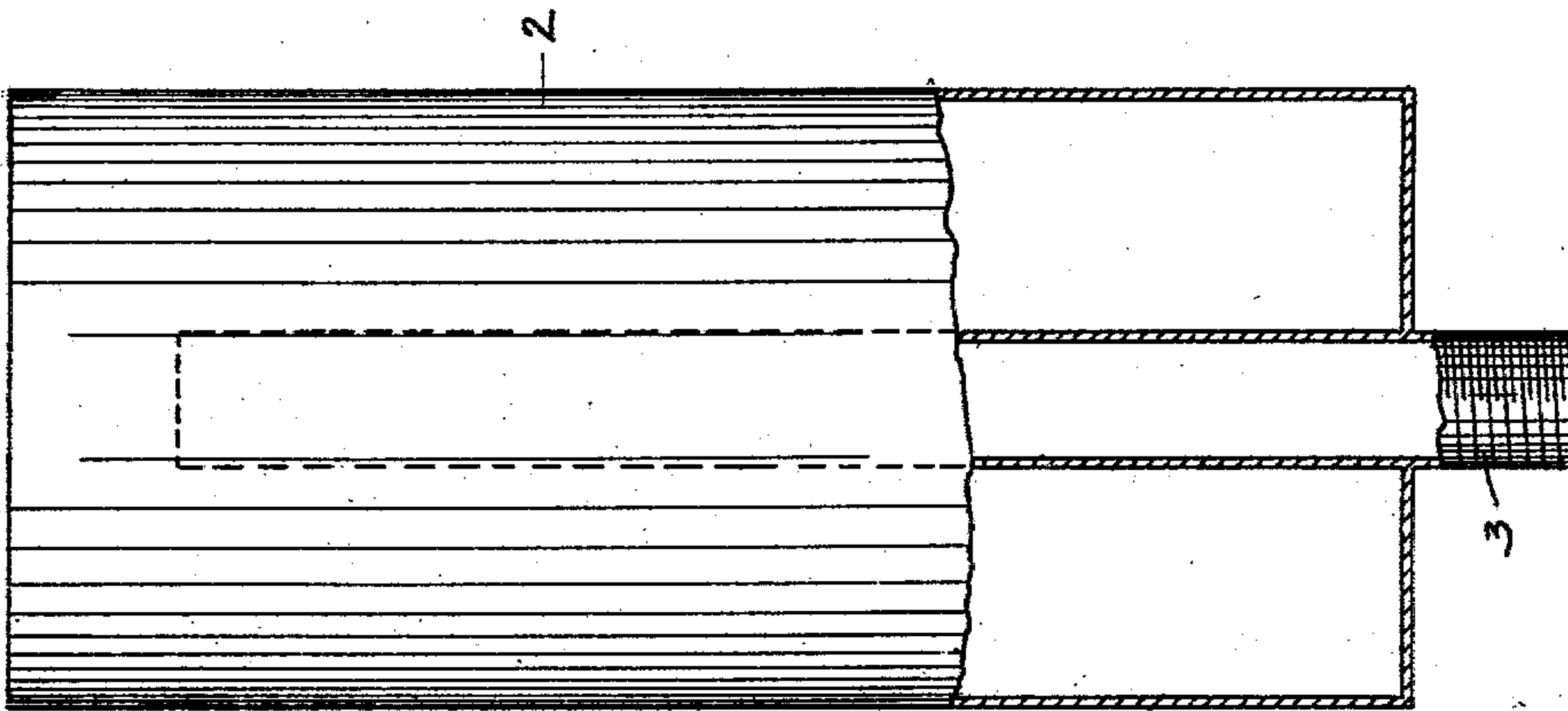
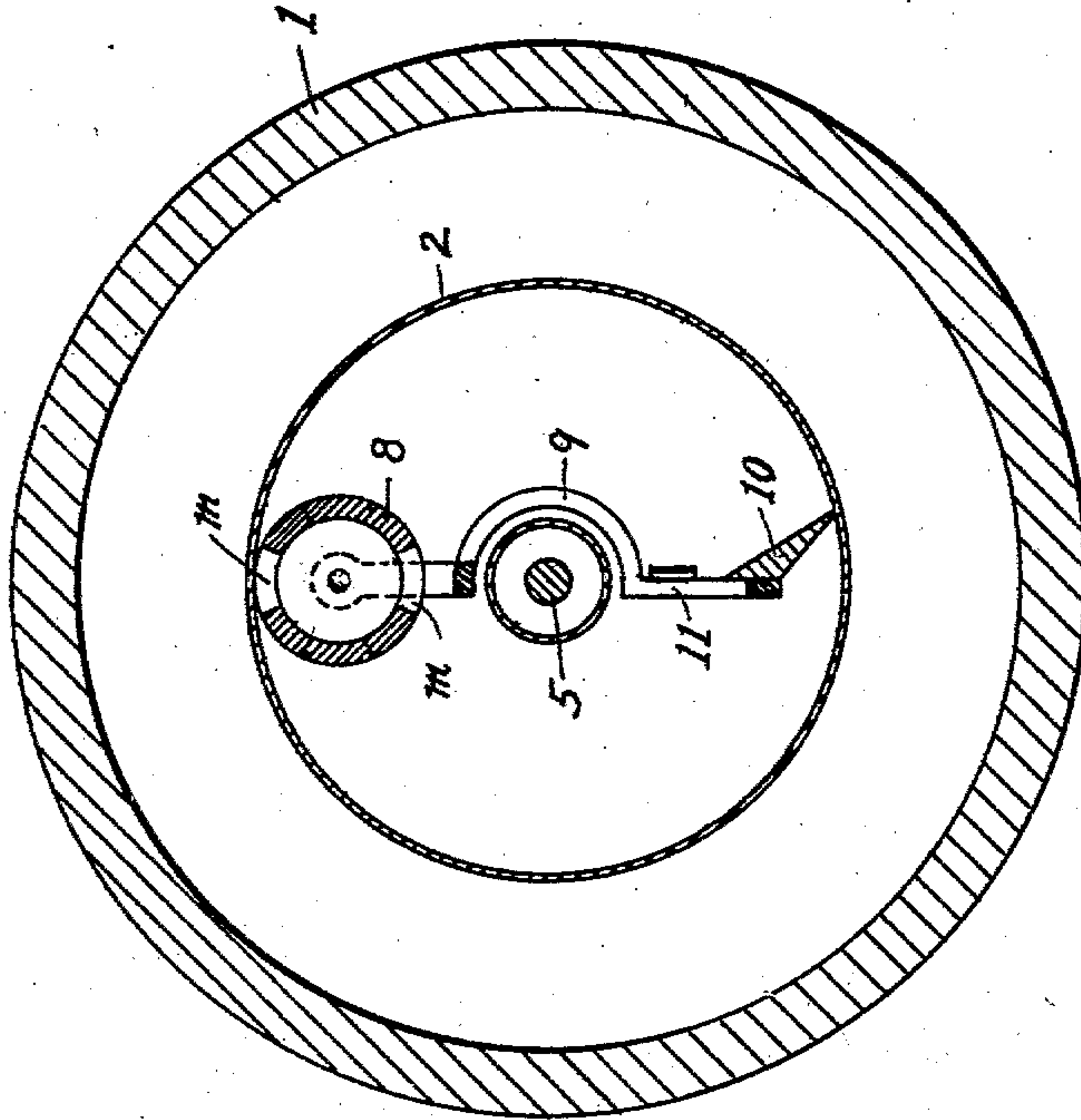


Fig. 3

Witnesses.

Frederick R. Sweet.
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UNITED STATES PATENT OFFICE.

SAMUEL SWEENEY, OF PITTSBURG, PENNSYLVANIA.

ICE-CREAM FREEZER.

SPECIFICATION forming part of Letters Patent No. 720,856, dated February 17, 1903.

Application filed August 8, 1902. Serial No. 118,860. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL SWEENEY, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Ice-Cream Freezers, of which improvement the following is a specification.

My invention relates to ice-cream freezers. The objects of my invention are, first, to produce a device the receptacle to contain the freezing mixture of which is provided with a removable cover; second, to provide a knife or scraper adapted to remove the cream from the inner surface of the cream-receptacle without abrading or removing any of the tinning therewith, and, thirdly, to provide in such types of machines a combined whipper and agitator; and to accomplish these several objects my invention consists in the novel combination and arrangement of parts hereinafter more specifically described, reference being had to the accompanying drawings, forming part hereof, in which like reference characters indicate like parts wherever they occur, and in which—

Figure 1 indicates a longitudinal section of my improved freezer. Fig. 2 is a transverse section of the same, and Fig. 3 is a detail of the cream-receptacle and hollow shaft.

Referring to said drawings, 1 indicates an exterior cylinder forming the receptacle to contain the congealing or freezing mixture. The said cylinder is provided with an apertured cap or cover *a*, adapted to be secured to the body of the cylinder at *x* by the wire clamp *b*, by bolts, or in any other suitable manner. At the point where said cap engages the body of said cylinder a rubber gasket *c* is interposed to produce a water-tight joint. This cap *a* is removable to enable easy access to be had to the interior of the receptacle for the purpose of charging the freezing mixture therein, cleaning out said receptacle, or for any other desirable purpose. The end of said cap is provided with a centrally-disposed aperture *d*, through which one end of the cream-receiving receptacle 2 projects, and the end of the body portion of said cylinder 1 opposite thereto is provided with an aperture *e*, in which one end of the hollow shaft 3 projects and is secured upon the adjust-

ably-disposed end of the bracket 4, nuts *f g* and gaskets *h* and *i* serving to form a water-tight joint at such points. The outer enlarged end *j* of shaft 5 is secured to the adjustably-disposed end of the bracket 4, which is adapted to be adjusted to any angle desired and held in such position by means of a set-screw *k*, the opposite end of said shaft 5 being seated in the bearing *l*, formed in the member 6.

A hollow roll 8, mounted on one member of the U-shaped shaft 9, is located in the interior cylinder or cream-receptacle 2 on one side of the hollow shaft. The said roll 8 is provided with series of slits *m m*, which serve as agitators or whippers upon the cream during the rotation of the roll and the interior and exterior cylinders, the said roll being frictionally driven by impact with the inner surface of the cream-receptacle in the same direction to the rotation of the cylinder in which it is mounted. During the rotation of said cylinders and roll the cream contained in the interior cylinder is uniformly acted upon by the roll and is pasted or impressed thereby upon the interior surface of the cream-receptacle and thoroughly frozen thereon and is then removed therefrom by the blade or knife 10, which coincides in length with the cream-receptacle and is secured therein in such manner that the edge of the blade is in contact with the inner surface of said cream-receptacle. The said knife is preferably formed of any suitable hard wood or of a blade formed of hard wood inserted or carried by a metal support, the action of the wood upon the metal sides of the cream-receptacle largely preventing the danger of abrading the same or removing any part of the tinning in scraping off the cream. A series of brace-clamps 11 are secured in the cream-receptacle, one end of the same encircling the hollow shaft and such brace-rods serving to act or operate as whippers during the freezing operation. As the cream is scraped off the sides of the cream-receptacle it drops into the bottom thereof, from which it may be readily dipped or removed by removing the lid 12 of the cream-receptacle.

The apparatus may be secured to a table or other support by the clamp 13.

Having described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. In an ice-cream freezer, the combination
of an exterior receptacle to contain the freez-
5 ing mixture rotatably mounted on a shaft and
having a removable top, a cream-receptacle
mounted on the same shaft as said exterior
receptacle, and adapted to rotate therewith,
a hollow frictionally-driven roll mounted in
10 the interior of said cream-receptacle and
means to secure the removable cap of said ex-
terior cylinder.

2. In an ice-cream freezer, the combination
of an exterior cylinder adapted to contain the
15 freezing mixture and rotatably mounted upon
a shaft and having a removable top the said
exterior cylinder being secured upon an ad-

justable bracket, a cream-receptacle mount-
ed on the shaft on which said exterior cylin-
der is mounted and adapted to be rotated 20
therewith, a hollow frictionally-driven roll
mounted in said cream-receptacle, provided
with series of slits, a knife adapted to remove
the cream from the interior surface of said
cream-receptacle, and a wire clamp adapted 25
to secure the top of said exterior cylinder.

In testimony whereof I have hereunto
signed my name in the presence of two sub-
scribing witnesses.

SAMUEL SWEENEY.

In presence of—

CLARENCE A. WILLIAMS,
JOHN H. RONEY.