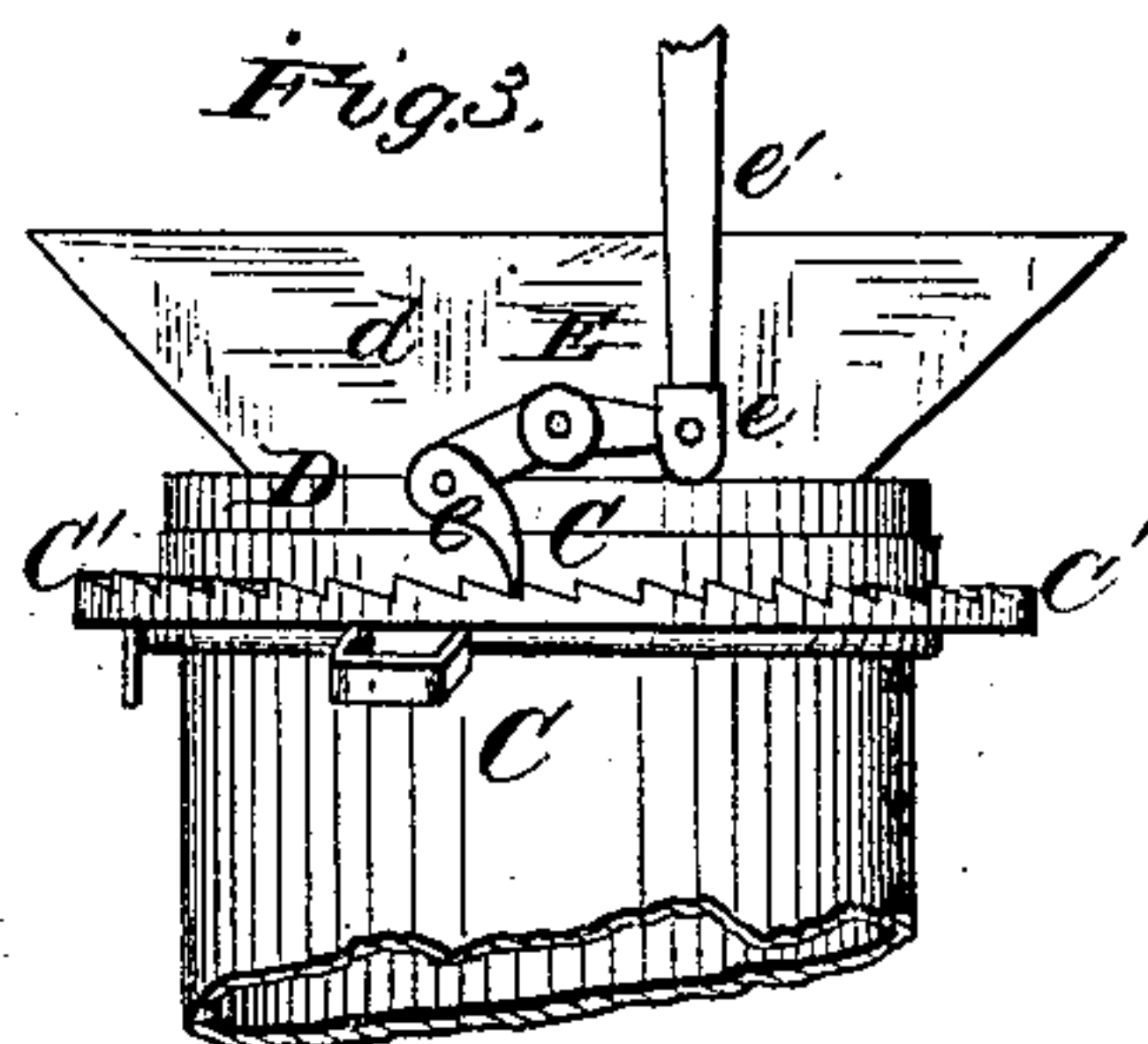
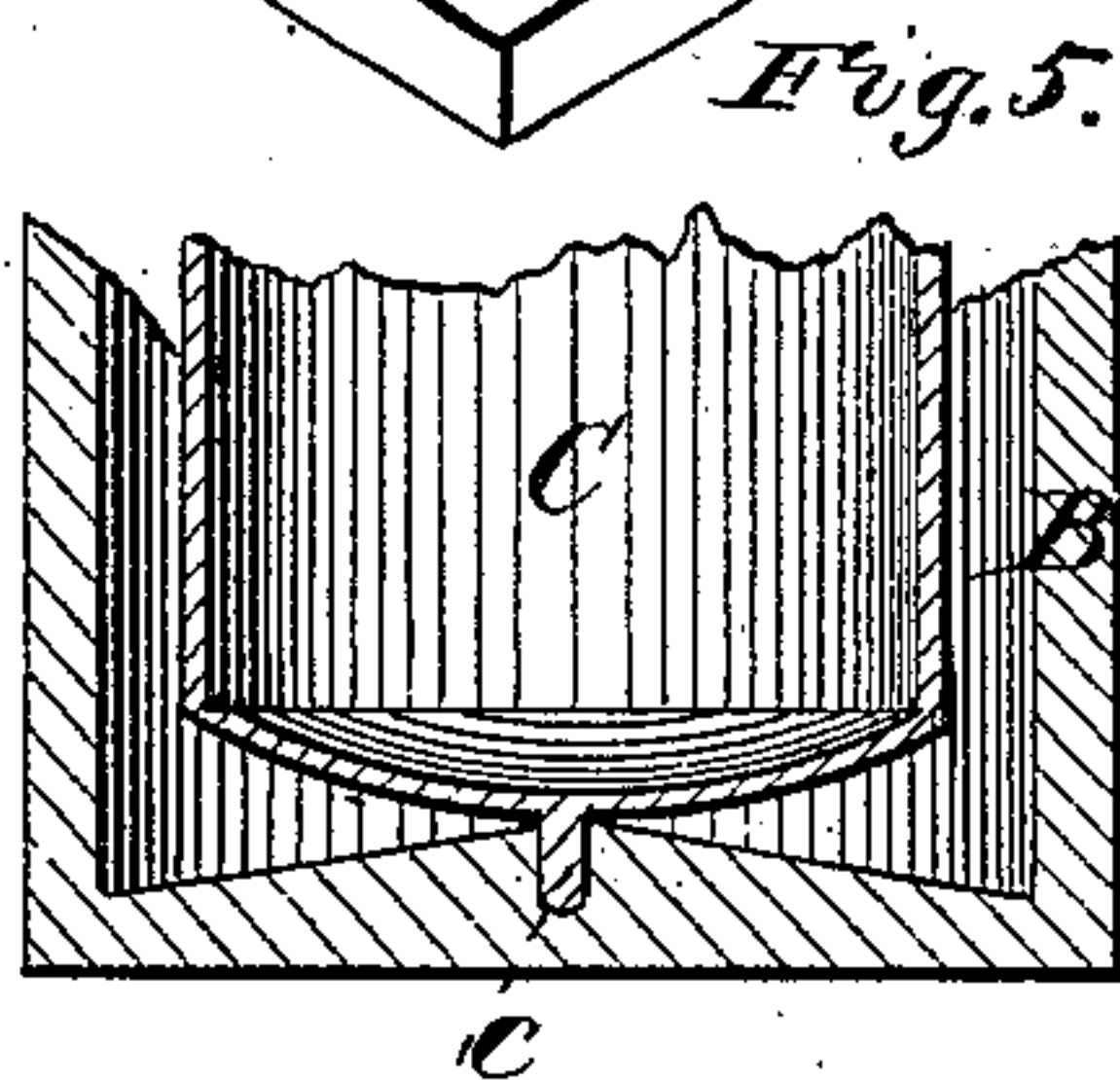
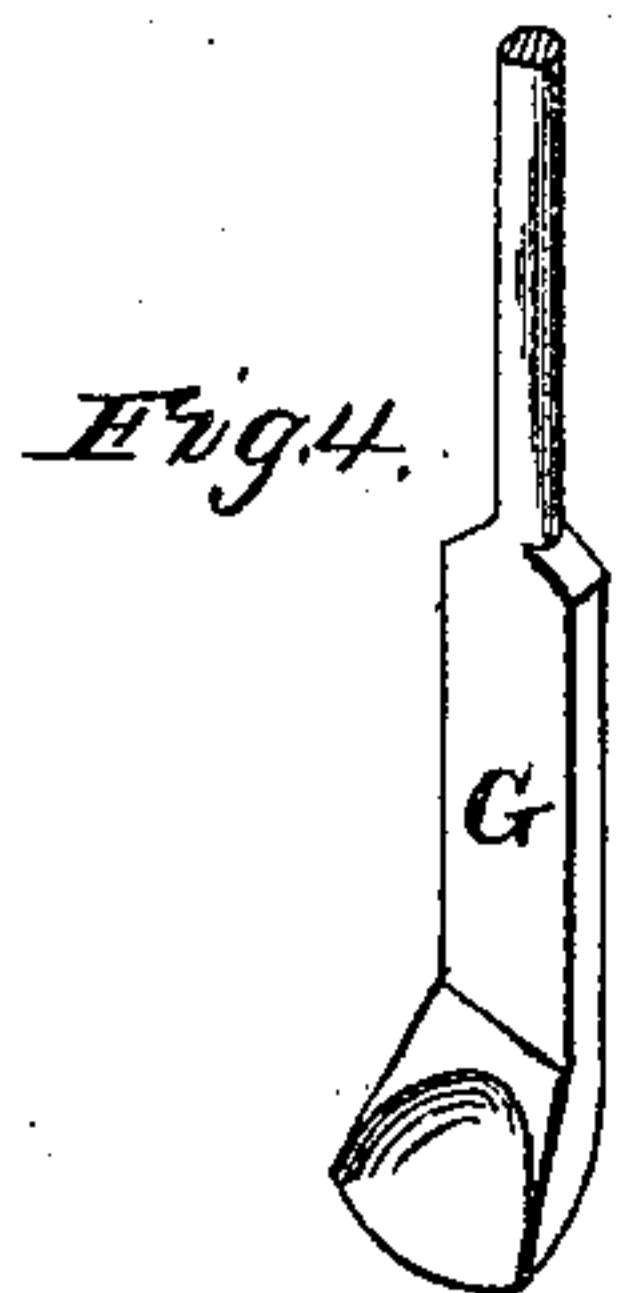
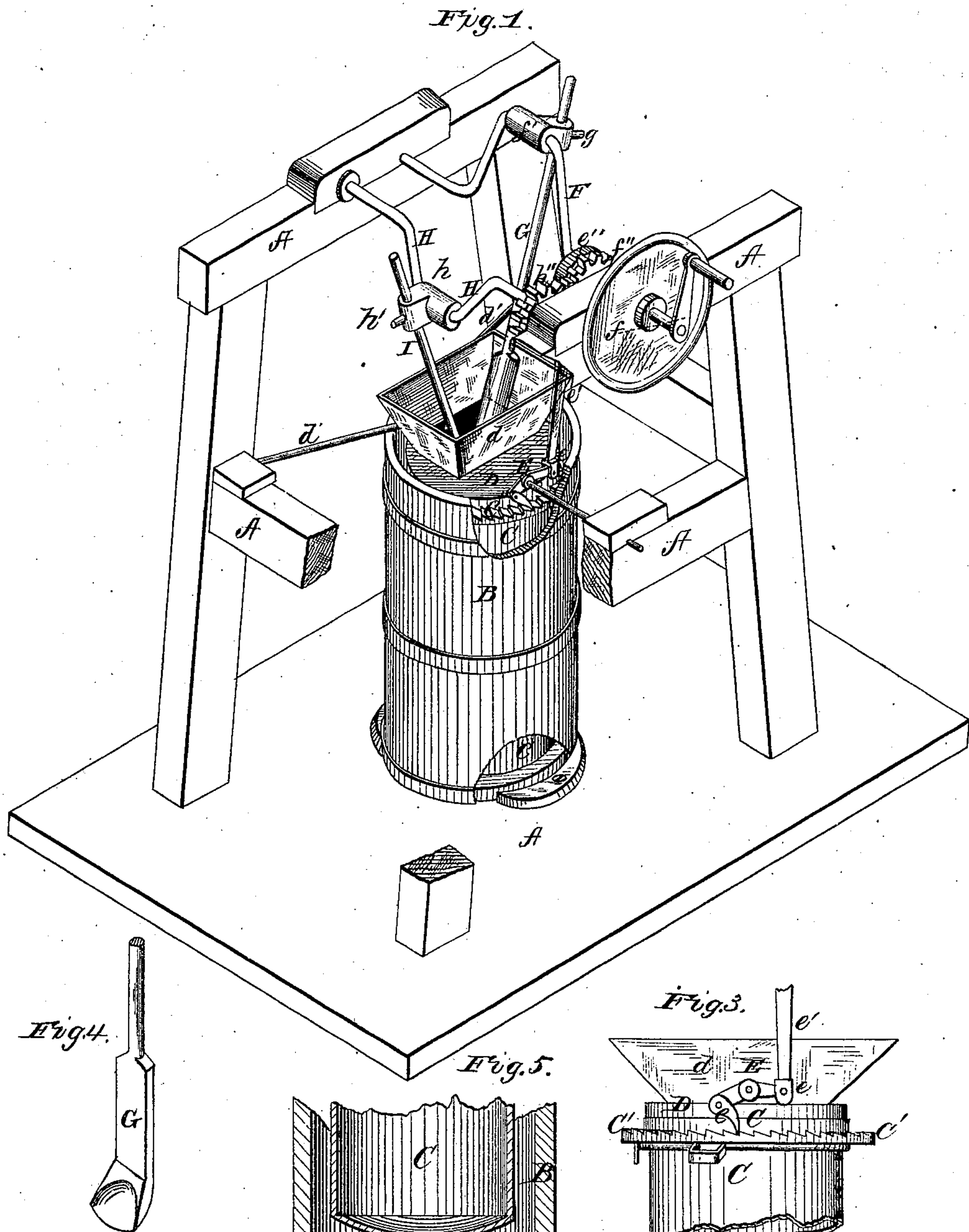


W. E. WISE.
Ice-Cream Freezer.

No. 197,442.

Patented Nov. 20, 1877.



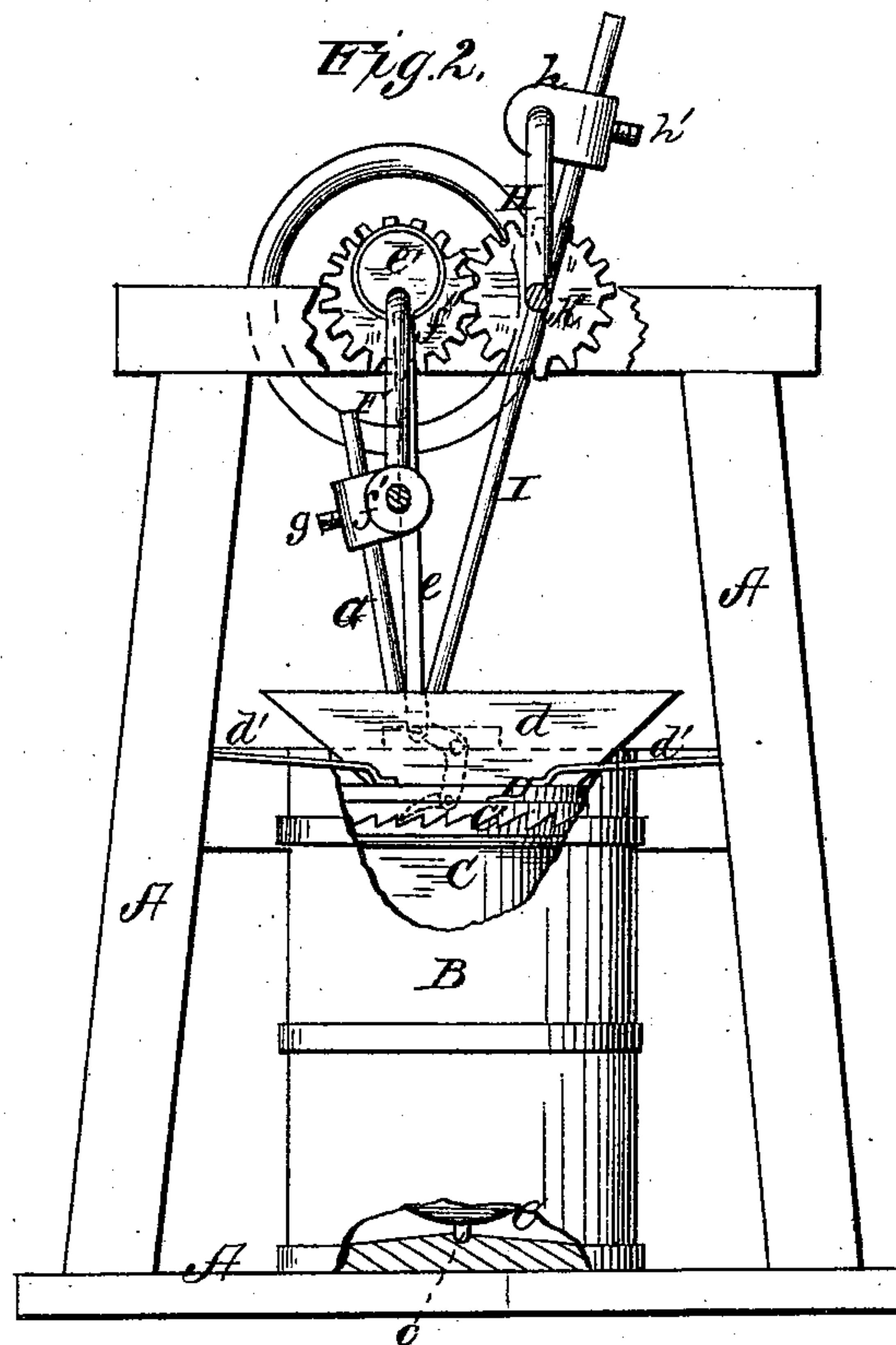
WITNESSES
Frank L. Curand
S. P. Giettrings

INVENTOR
William E. Wise
by *L. Deane*
ATTORNEY

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UNITED STATES PATENT OFFICE.

WILLIAM E. WISE, OF WILLIAMSPORT, PENNSYLVANIA.

IMPROVEMENT IN ICE-CREAM FREEZERS.

Specification forming part of Letters Patent No. **197,442**, dated November 20, 1877; application filed September 19, 1877.

To all whom it may concern:

Be it known that I, WILLIAM E. WISE, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Ice-Cream Beaters, of which the following is a specification:

Figure 1 is a perspective view, showing the device as in readiness for use. Fig. 2 is a side elevation, showing pawl and ratchet rim for moving the ice-cream can, and, in the portion of the ice-tub broken away, the pivot on which the can moves or turns. Fig. 3 is a detail, showing the movable top of the can. Fig. 4 shows one of the beaters. Fig. 5 shows end of can, journaled in ice-tub.

The object of the present invention is to produce a device that will act efficiently to stir the cream while in the process of freezing; and it consists more particularly in the peculiar shape of the beater used; and in the means employed for attaching the same to the crank, by which motion is imparted to it; and in the means used for revolving or turning the can; and in the peculiar construction of the top of the can, whereby it will fit over the ratchet-rim, and also cover a part of the top of the can, thereby preventing the cream from splashing out while the beaters are in motion; and, finally, in the general combination and arrangement and construction of the several parts composing said device, all as will now be more in detail set out and explained.

In the accompanying drawings, A denotes any convenient and suitable frame or means for holding the ice-tub B, in which is placed the ice-cream can C, adapted to be revolved on its axis *c*, which is journaled in the base of tub B. Upon the upper edge of the cream-can C is placed the top D, which extends over the rim, inside the ratchet-teeth C' on the upper edge of C, and also partially covers the top of the said can C. This top has a suitable central opening, provided with chute *d*. As thus made and adapted, the cover will prevent the cream from splashing out when the beaters are in motion. This top can be so fitted as to be held securely in its said position in any convenient way or manner—now shown as accomplished by means of the braces *d'* extend-

ing from three of its sides to the frame, where they are properly secured, so that they will hold the cover firmly, or so that they may readily be wholly or partially disengaged when occasion calls for it. One of these braces may be so arranged and fixed as to serve as an axis, on which the arm E carrying the hinged pawl *e* may be moved or worked by means of the pitman *e'* and eccentric *e''*, operated by the handle *f* extending conveniently outward from the frame.

The crank-arm F is bent in that part which comes over the opening in the cover of the cream-can, and to this bend is fitted the box or sleeve *f'*, having an eye in its flange to carry the arm or long end of the beater G, which is held in its place by set-screw *g*, so that said beater can be readily put in position or detached. While this sleeve is adapted to have free motion on the crank-arm, it is so applied that it will always retain a horizontal or nearly horizontal position. There is also, nearly parallel to this crank-arm, another like crank-arm, H, mounted, like it, in the top of the frame A and having a similar beater, I, fixed in a similar sleeve or box, *h*, in like manner as has been above described. This crank-arm derives its motion from the same source as crank-arm F, through its pinion *h''*, which meshes with the pinion *f''* on F.

The revolutions of the crank-arms cause the beaters to pass alternately back and forth in and through the cream-can and its contents, rising as they end, and descending as they begin, the stroke.

The beaters have a broad paddle end, slightly bent or turned up near the tip, and the beaters are so placed in position that when in motion the said tips will face toward the line of advance movement of the paddle.

The ratchet-teeth *c'*, on the upper edge of the cream-can, will afford holding-places for the pawl *e* to engage upon when the machine is in operation, and thus a revolving motion will be easily imparted to said can, while it rests at the bottom on its journal *c*, and at the upper part is held by the top D, as before described.

From the foregoing explanation the operation of the said device will be readily understood. The top, being removable, will be

adapted to fit any can of like size, and thereby will be obviated the necessity of having a certain tub and cover for each machine.

It will be clearly seen, also, that this device will effectually secure the even freezing of the cream; will not allow any waste or splashing of the cream; can be easily operated; is very strong; very simple in structure; easily built; not easy to get out of repair, and cheaply duplicated in all its parts.

It will also be evident that, in substantially the same machine, the process of churning milk can be carried on; and it will now not be necessary to point out the mere mechanical alterations necessary to carry that out, because they are obvious at a glance.

Having thus described my said invention, what I consider new, and desire to secure by Letters Patent, is—

1. In combination with the cream-can, re-

involved as described, the beaters G and I, adjustable in sleeves *f* and *h*, and operated by crank-arms F and H, substantially as and for the purposes set forth.

2. In combination with the crank-arms F and H, constructed and operated as set forth, and having sleeves *f'* and *h*, the beaters G and I, substantially in the manner and for the purposes set forth.

3. The top D, having chute *d* and braces *d'*, and combined with can C and frame A, substantially in the manner and for the purposes described.

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

WM. E. WISE.

Witnesses:

CLINTON LLOYD,
H. H. CUMMIN.