

C. GOOCH.
Ice-Cream Freezers.

No. 146,819.

Patented Jan. 27, 1874.

Fig. 1.

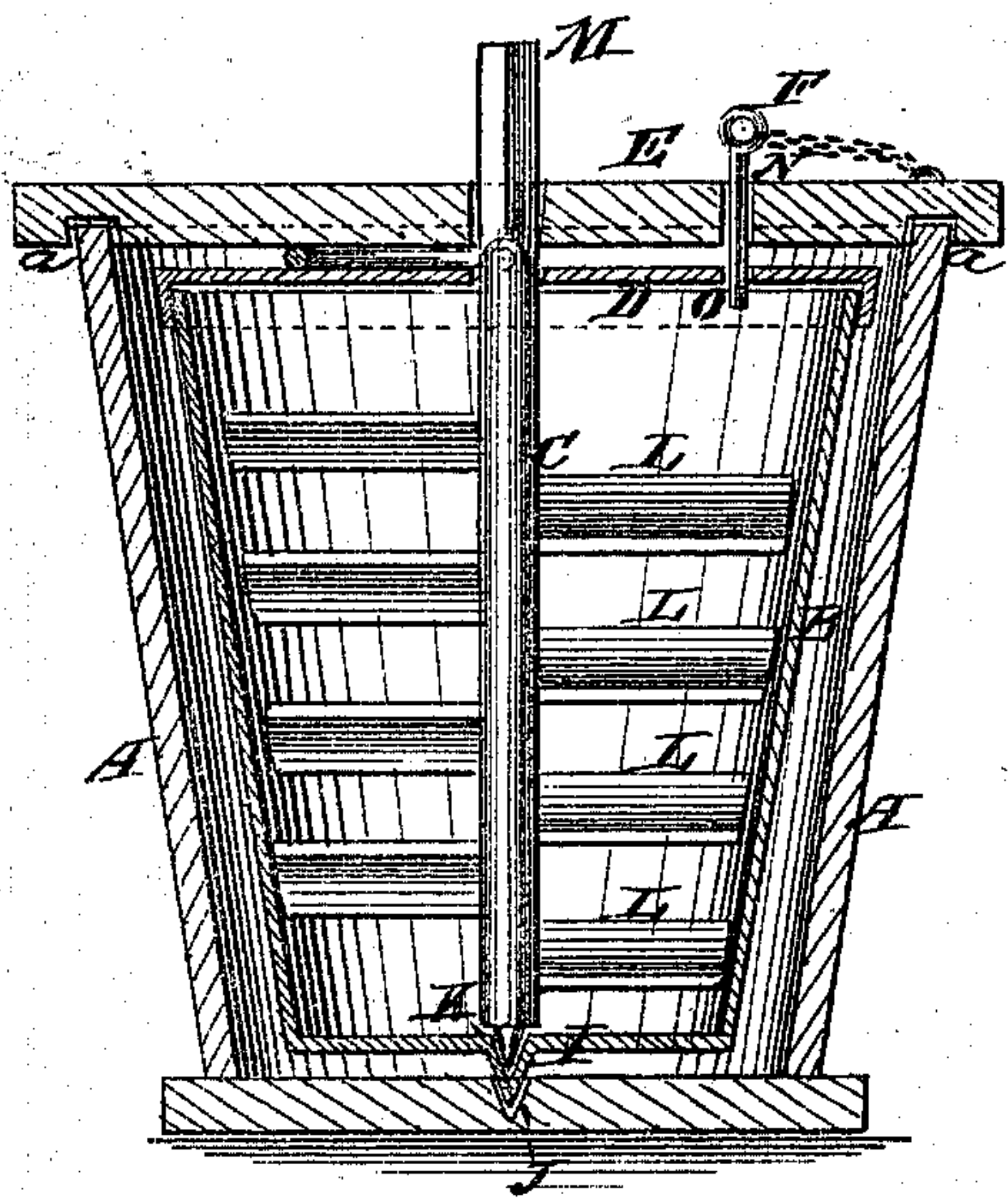


Fig. 2.

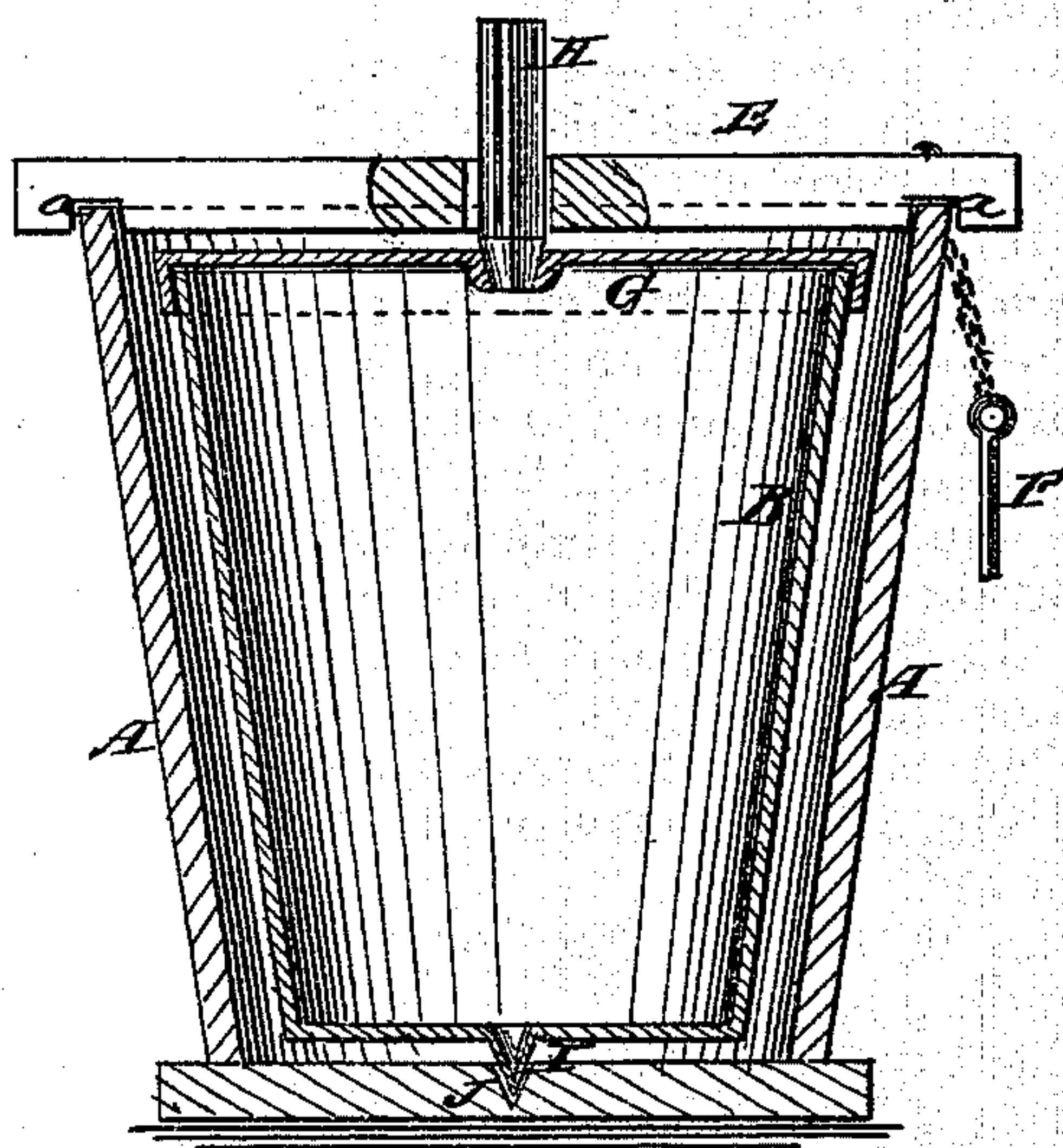
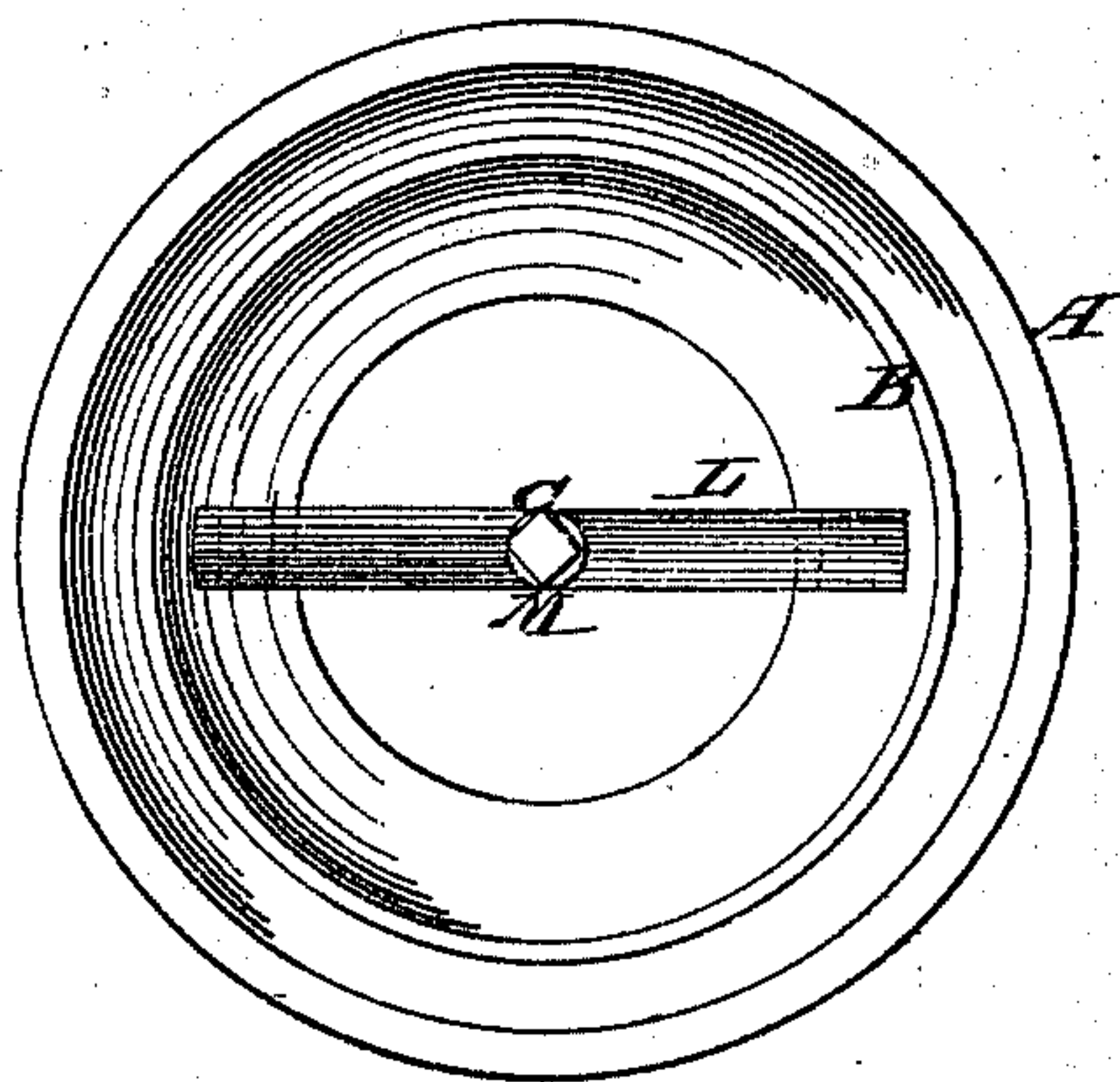


Fig. 3.



Witnesses.
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IMPROVEMENT IN ICE-CREAM FREEZERS.

Specification forming part of Letters Patent No. **146,819**, dated January 27, 1874; application filed May 5, 1873.

To all whom it may concern:

Be it known that I, CHARLES GOOCH, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Ice-Cream Freezers, of which the following is a specification:

The invention is an improvement in a well-known class of rotary freezers; and relates to the mode of attaching the top cross-bar to the tub, and to a short detachable shaft adapted to be applied to the cover of the can for rotating the same without stirring the cream, as hereinafter described.

Figures 1 and 2 are sectional elevations, and Fig. 3 a plan view of Fig. 1 with the cover removed.

Similar letters of reference indicate corresponding parts.

The tubs A are made of so much less diameter at bottom than at the top that they can be nested and shipped like common pails. The cans B are of less diameter at bottom than top, so they also can be nested. Tubs and cans being nested take much less room, and can be shipped at a less expense; also, can be more readily and cheaply boxed when in this compact form. The dasher C L may be made of any suitable style or shape to answer the purpose of beating or mixing the material to be frozen during the process. The can-top D is made to fit the can, and has either a projecting lug upon or hole O in it to receive a pin, F, or hook upon the top board E, to prevent the can from turning when it is desired it should remain stationary. The top board E, which is for the purpose of keeping the shaft of the dasher perpendicular, and also to hold the pin or hook above mentioned, has two grooves, *a*, on the under side, which fit upon the top edge of the tub. The distance between the grooves *a* is less than the diameter of the tub at the top; hence it always requires to be "sprung on" by compress-

ing the tub slightly, and by reason of the grooves being cut under on one or both sides, the bar and tub are firmly connected, so that the former may be used as a handle for lifting or carrying about the other. This mode of connection dispenses with catches or other supplementary metallic fastening devices, which add to the cost of freezing apparatus, without rendering them superior to mine. The short shaft H is detachable from the cover G of the can B, and made square or polygonal at its ends, to adapt it for application of a crank, and application to the said cover. It is used when the cream has been partially frozen or solidified, and the stirrer C L removed in consequence. The rotation of the can is then continued by the short shaft, and the freezing process completed.

When the freezing is completed, the can may be dipped for a moment in hot water, and the frozen material turned out upon a plate in a pyramidal form for the table without further trouble, or may be dipped out of the can, as usual.

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

1. The cross-bar E, having dovetailed or undercut grooves *a*, in combination with the tub A, the diameter of the latter at the top being greater than the distance between said grooves, as shown and described, for the purpose specified.

I do not claim the combination of a short shaft and a can-cover; but

2. The short detachable polygonal shaft H, in combination with the cover G of the can B, as shown and described, to operate as specified.

CHARLES GOOCH.

Witnesses:

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