(No Model.)

C. W. PACKER.

ICE CREAM FREEZER.

No. 313,760. Patented Mar. 10, 1885.

FIG. 5

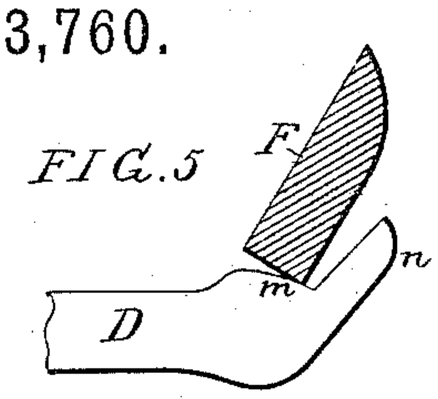


FIG. 1.

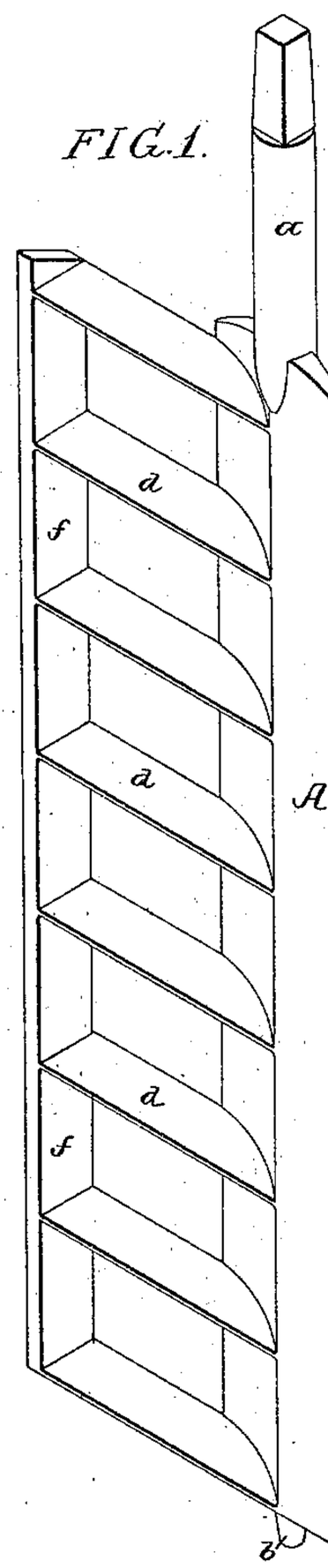


FIG. 2.

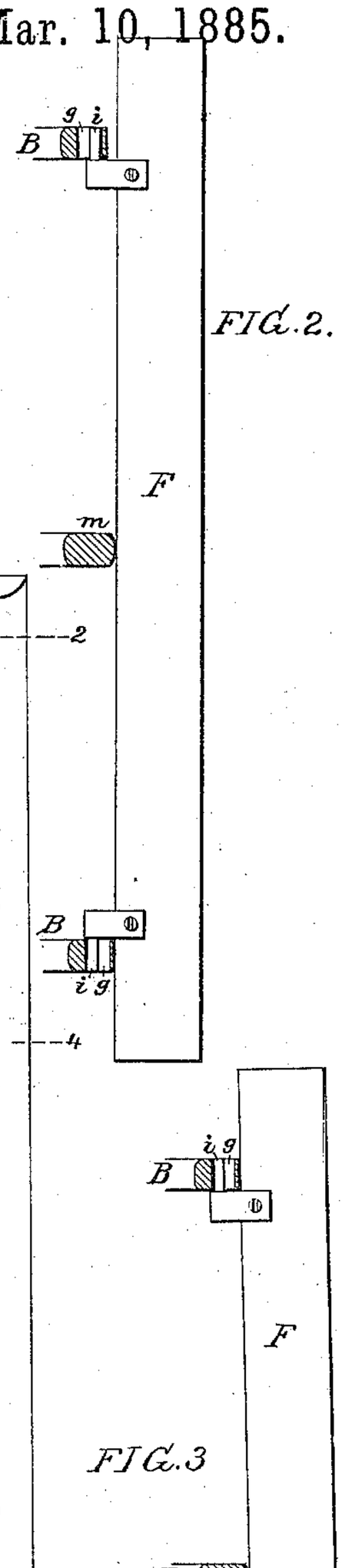


FIG. 6

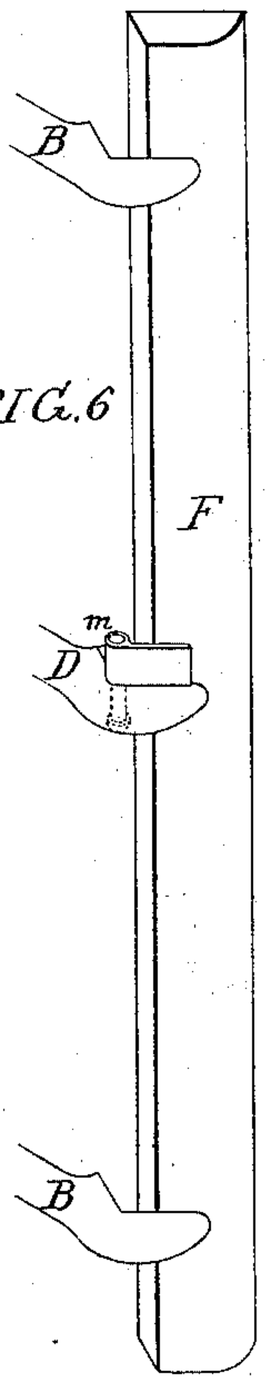


FIG. 7.

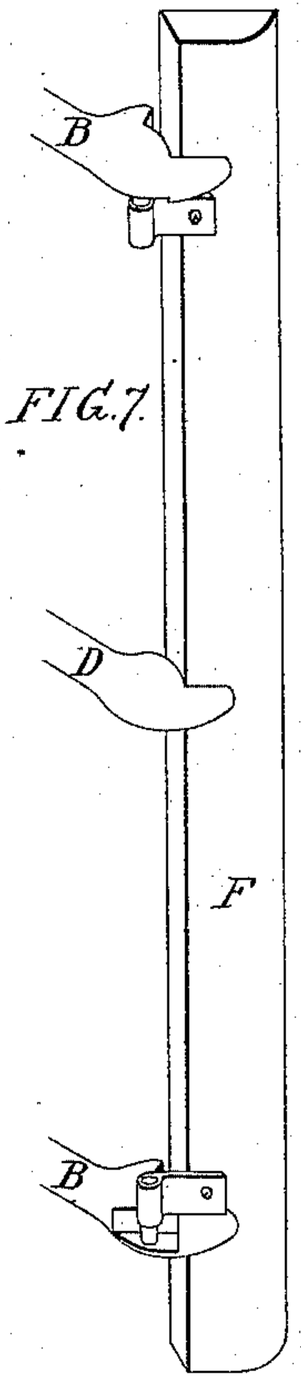
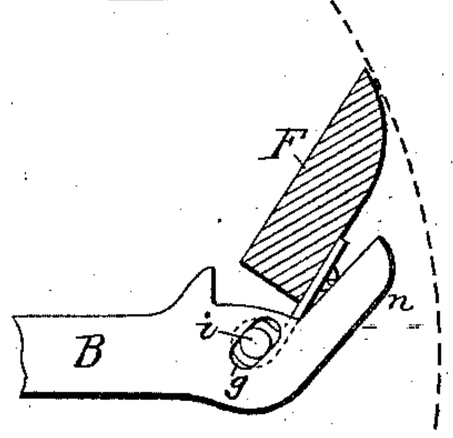


FIG. 3

FIG. 4.



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UNITED STATES PATENT OFFICE.

CHARLES W. PACKER, OF PHILADELPHIA, PENNSYLVANIA.

ICE-CREAM FREEZER.

SPECIFICATION forming part of Letters Patent No. 313,760, dated March 10, 1885.

Application filed December 1, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. PACKER, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Ice-Cream Freezers, of which the following is a specification.

My invention relates to dashers for ice-cream freezers of the same character as that shown in my Patent No. 223,753, dated January 20, 1880, the object of my present improvements being to provide the dasher with a scraper which will better accommodate itself to inequalities in the body of the can than the scraper of the patented dasher.

In the accompanying drawings, Figure 1 is a perspective view of a dasher constructed in accordance with my invention; Figs. 2 and 3, side views of parts of the dasher, showing the limit of movement of the scraper; Fig. 4, a sectional plan on the line 1 2, Fig. 1; Fig. 5, a sectional plan on the line 3 4, Fig. 1, and Figs. 6 and 7, perspective views illustrating modifications of the invention.

The dasher has a central web, A, with driving-spindle *a* and lower bearing-stud, *b*, the usual stirring-vanes, *d*, projecting from one side of the web and being connected by a vertical bar, *f*. From the opposite side of the web project three arms, B B and D, the upper and lower arms, B, having near the ends slots *g*, for the reception of pivot-pins *i*, carried by a scraping-bar, F, which has a central bearing, *m*, against the end of the arm D. The normal position of the scraper when the dasher is in the can is that shown in Fig. 4, (in which the can-body is shown by dotted lines,) so that while the edge of the scraper is held in contact with the can by the pressure of the cream thereon said scraper can yield in the directions pointed out by the arrows, in order to accommodate itself to inequalities in the can, lugs *n* on the arms preventing undue backward movement. So far as this movement is concerned, it is the same as that of the scraper used on the dasher forming the subject of my former Letters Patent; but in said dasher the scraper was rigidly pivoted to the upper and lower arms, and was therefore immovable, so far as regards longitudinal vibration or tilt in a vertical plane. In this respect my present dasher differs from the patented one, for owing to the slots in the arms B of the dasher the pins *i* can have such play therein that the scraper can yield at the top and bottom, and thus assume the angle necessary to effect the proper scraping of the can when the inside of the latter is not in a true vertical plane, (see Figs. 2 and 3,) the bearing on which the scraper swings, in assuming the angle shown, being the bearing *m* at the end of the central arm, D, of the dasher. It should be understood that this longitudinal tilting of the scraper is independent of and does not affect the swinging movement of the scraper upon its pivots *i*.

If desired, the central bearing of the scraper upon the arm D may be a pivoted bearing, as shown in Fig. 6, the opening for the pivot-pin being so large that it will not interfere with the desired longitudinal tilting of the scraper; or the pins of the scraper may be adapted to recesses in the end arms, instead of to slots therein, an example of such construction being shown in Fig. 7.

I claim as my invention—

1. The combination of the dasher and its arms with the scraper pivoted so as to be free to swing in advance of the dasher-arms, and having a bearing upon the central arm, whereby a longitudinal tilt of the scraper is permitted, and its opposite ends are free to move in and out independently of the pivotal movement, as set forth.

2. The combination of the dasher having central arm, D, and recessed or slotted end arms, B, with the scraper having a bearing upon the central arm, and provided with pivot-pins adapted to the recesses or slots of the end arms, whereby the dasher is free to swing in advance of the dasher-arms, and also to move in and out at each end independently of the pivotal movement, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHAS. W. PACKER.

Witnesses:
JOHN M. CLAYTON,
HARRY SMITH.