

No. 674,174.

Patented May 14, 1901.

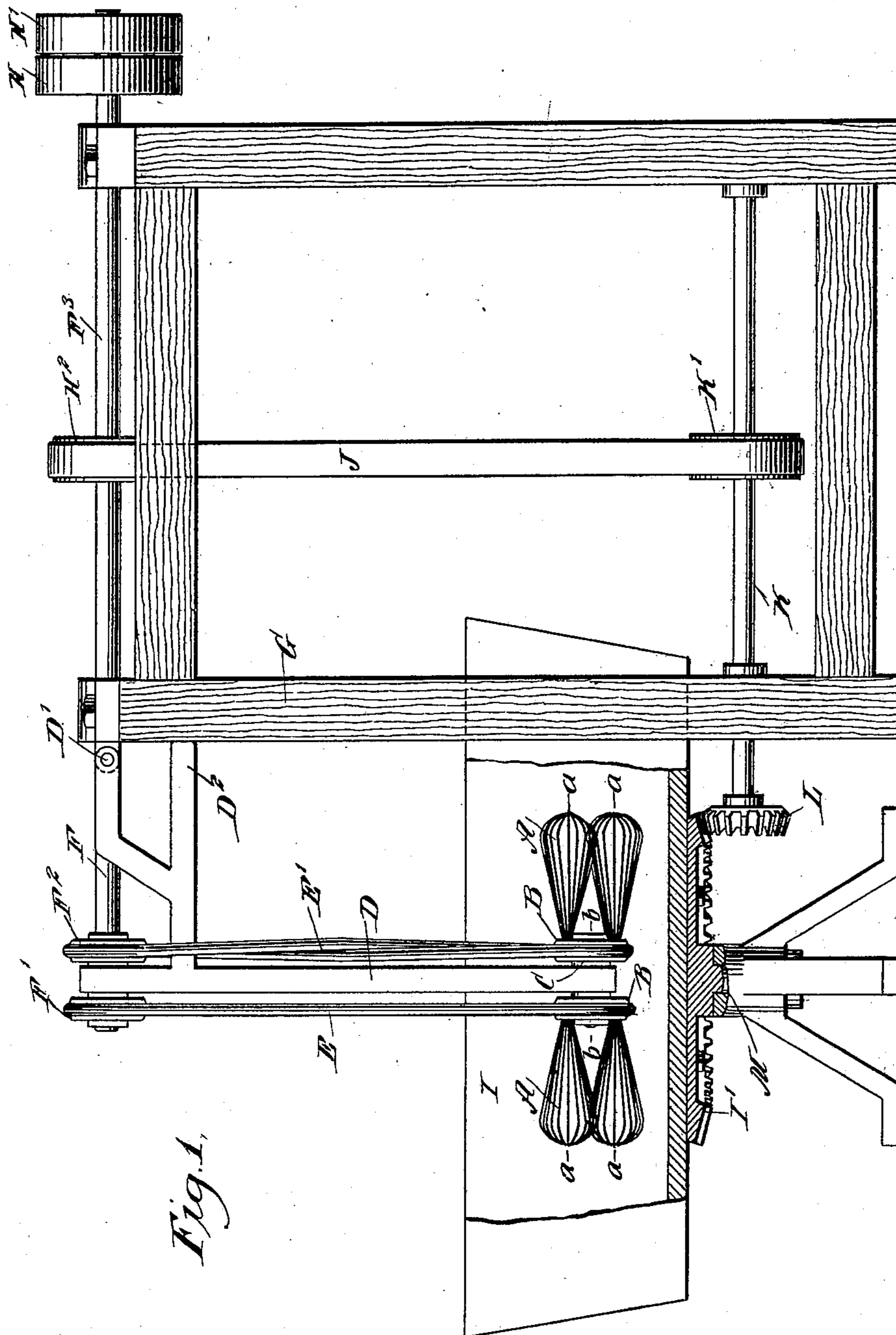
E. MONTANI.

MACHINE FOR WHIPPING CREAM.

(Application filed Feb. 20, 1899. Renewed Mar. 7, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES :

Edward Thorpe
John Lottka

INVENTOR
Emilio Montane.

BY

[Handwritten signature]

ATTORNEYS.

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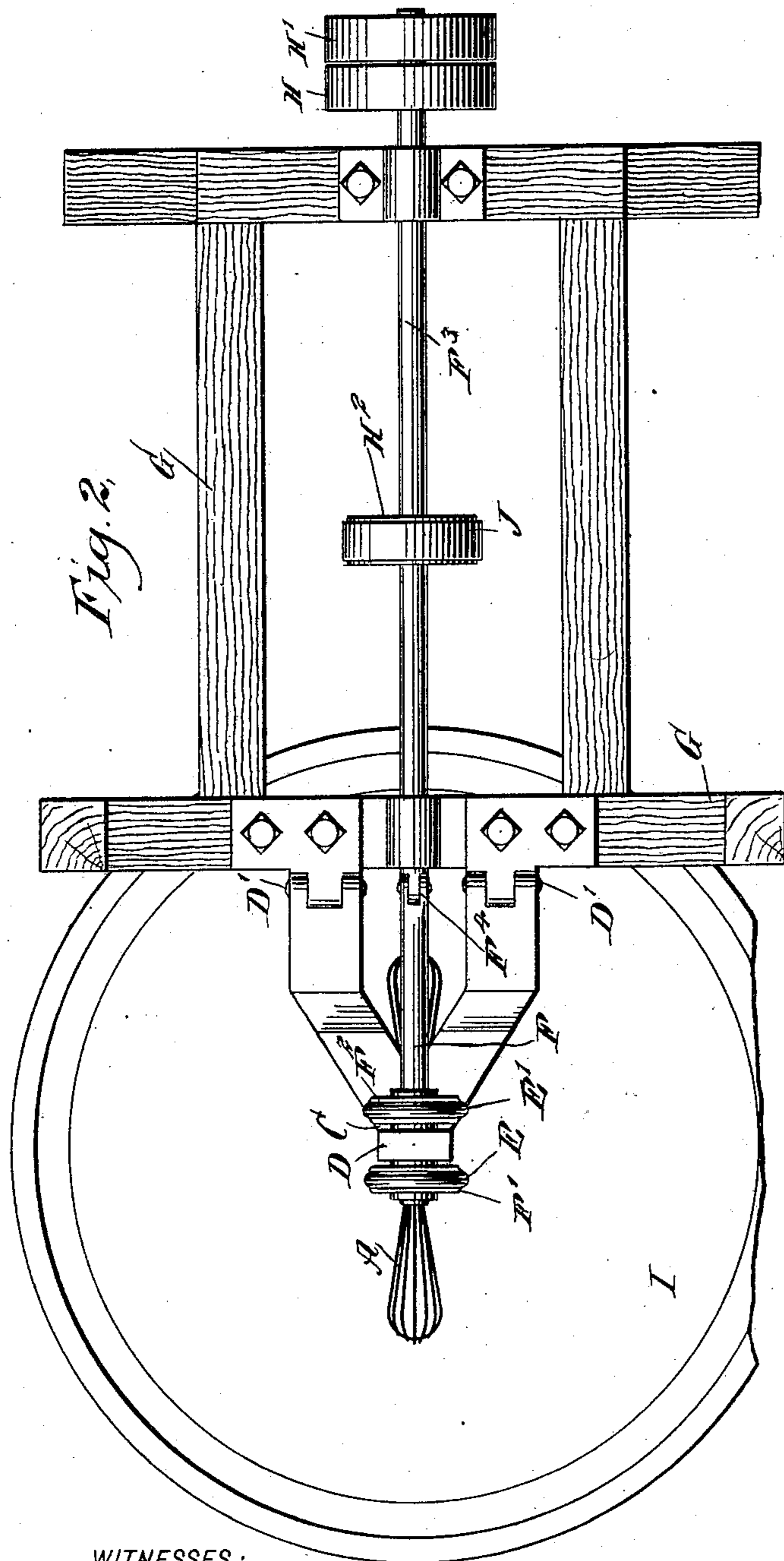
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UNITED STATES PATENT OFFICE.

EMILIO MONTANI, OF NEW YORK, N. Y.

MACHINE FOR WHIPPING CREAM.

SPECIFICATION forming part of Letters Patent No. 674,174, dated May 14, 1901.

Application filed February 20, 1899. Renewed March 7, 1901. Serial No. 50,268. (No model.)

To all whom it may concern:

Be it known that I, EMILIO MONTANI, a subject of the King of Italy, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Machine for Whipping Cream, of which the following is a full, clear, and exact description.

My invention relates to devices for whipping cream, and has for its object to provide a simple and efficient machine of the above-indicated class, and to so construct the machine that the working parts thereof may be readily swung into and out of the receptacle containing the cream.

To this end my invention consists in certain features of construction and arrangement of parts, as will be fully described hereinafter and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a side elevation of my improved machine, with parts in section; and Fig. 2 is a plan thereof.

My invention comprises, first, a novel form of beaters for whipping the cream, and, second, novel mechanism for operating the beaters.

The beaters A consist of a cluster of strips or wires arranged at angles to each other in the usual manner; but instead of being made to rotate about their own longitudinal axes *a a*, as in other constructions of this class, they are mounted to rotate about an axis *b b*, to which the axes *a a* are eccentric. For this purpose the beaters may be rigidly secured to a wheel B.

As shown in the drawings, there are two wheels B, rotatable independently of each other—for instance, by being both loose upon an axle C, secured to the bottom of a hanger D. Each of the wheels B carries two beaters A, extending in the same direction, preferably at points diametrically opposite each other, and to give the construction greater strength the wires of one beater may be made to engage those of the other, as illustrated. The wheels B are rotated in opposite directions by means of a straight belt E and a

crossed belt E', passing over pulleys F' F² on the outer portion F of the main shaft. This shaft, as shown, consists of two portions F and F³, connected by a hinge-joint F⁴. The portion F³ is journaled in bearings upon the stationary frame G and carries a fast pulley H and a loose pulley H' for receiving a driving-belt in the usual manner. The outer portion F has its bearings in the hanger D, which is connected with the frame G by hinges D', alining with the hinge F⁴ of the main shaft. The hanger D further has arms or braces D², arranged to engage the frame G, and thus hold the hanger vertical.

The beaters A are adapted to whip the cream within a receptacle I, which may be a pail of any suitable construction and may be provided with the usual jacket (not shown) to receive ice or other cooling agents. The receptacle is of sufficient dimensions to allow the hanger D, with the beaters A, to be swung about the pivots or hinges D', out of the receptacle I, it being understood that during such movement the outer section F of the main shaft swings on the hinge-joint F⁴. By this arrangement the contents of the receptacle can be made very readily accessible and at the same time it becomes much easier to inspect and clean the beaters A. Also the machine is more readily packed for transportation with the hanger D swung up and back.

On the shaft portion F³ is a fixed pulley H², from which, by means of a belt J and pulley K', is driven a counter-shaft K, carrying a bevel-pinion L. This pinion meshes with a bevel-toothed rim I', secured to the bottom of the receptacle I, which is mounted to turn about a vertical axis M. Thus when the shaft F³ F is rotated, turning the beater-wheels B in opposite directions, the counter-shaft K, by its pinion L, will simultaneously rotate the receptacle I, thus agitating the liquid more strongly.

The advantages of the above-described construction will be obvious without further explanation.

It will be understood that modifications of the construction herein shown and described, as long as they remain within the scope of the appended claims, will constitute no departure from the nature of my invention.

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

1. The combination of the frame, the hanger
5 hinged thereto, the main shaft having two
portions connected by a hinge-joint alining
with the hinge of the hanger, one of the shaft
portions being journaled in the hanger and
the other in the frame, and a beater operated
10 by that portion of the shaft which is journaled
in the hanger.

2. The combination of the frame, the hanger
hinged thereto, the beaters carried by the
hanger, and the main shaft having two por-
5 tions connected by a hinge-joint alining with
the hinge of the hanger, one of the shaft por-
tions being journaled in the hanger and oper-

atively connected with the beaters, while the
other shaft portion is journaled in the frame.

3. The combination of the frame, the hanger 20
hinged thereto and provided with arms or
braces adapted to engage the frame, the beat-
ers carried by the hanger, and the main shaft
having two portions connected by a hinge-
joint alining with the hinge of the hanger, 25
one of the shaft portions being journaled in
the hanger and operatively connected with
the beaters, while the other shaft portion is
journaled in the frame.

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Witnesses:

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