

EDMISTER & JOHNSON.

Churn.

No. 48,666.

Patented July 11, 1865.

FIG. 1.

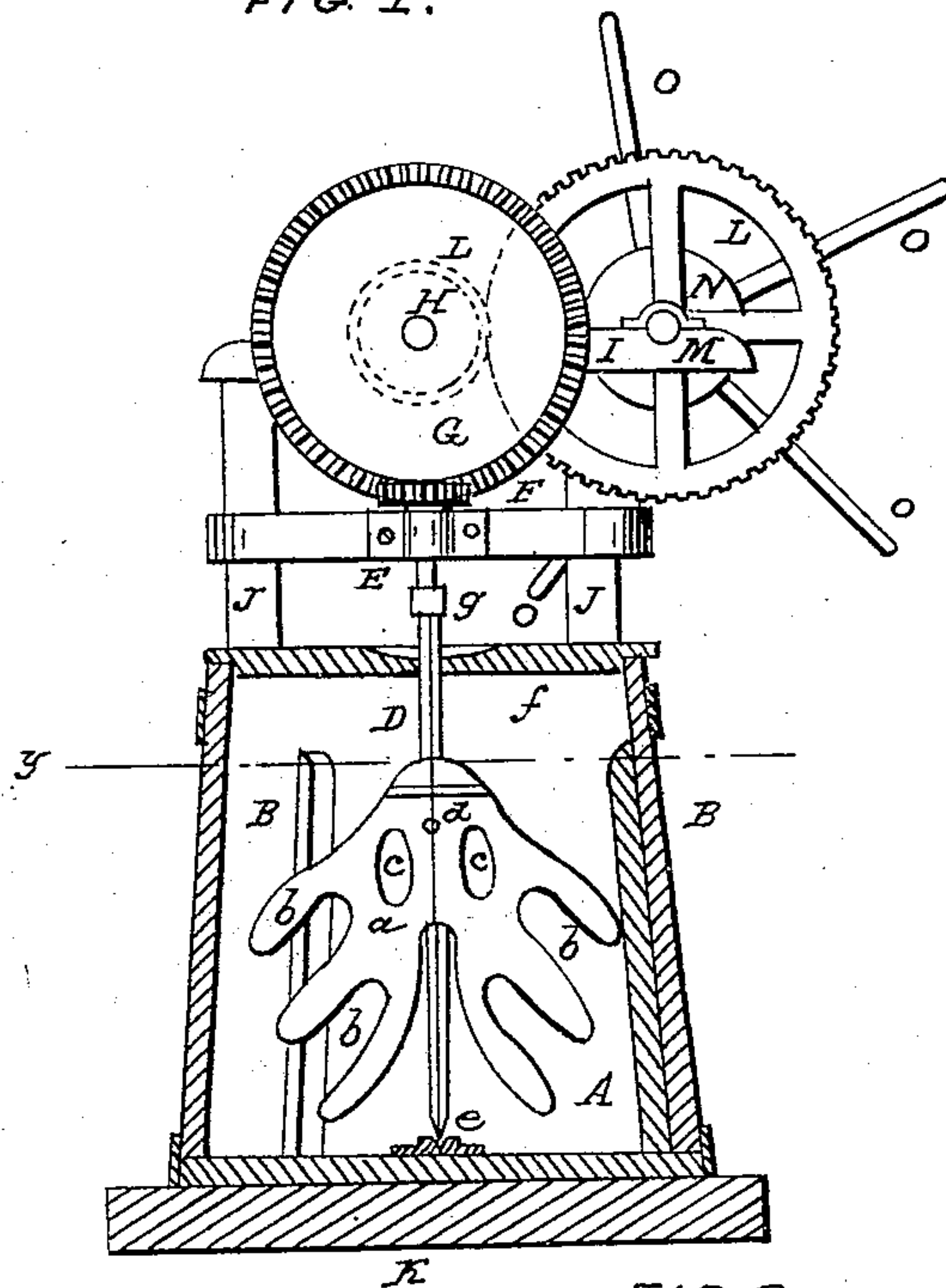
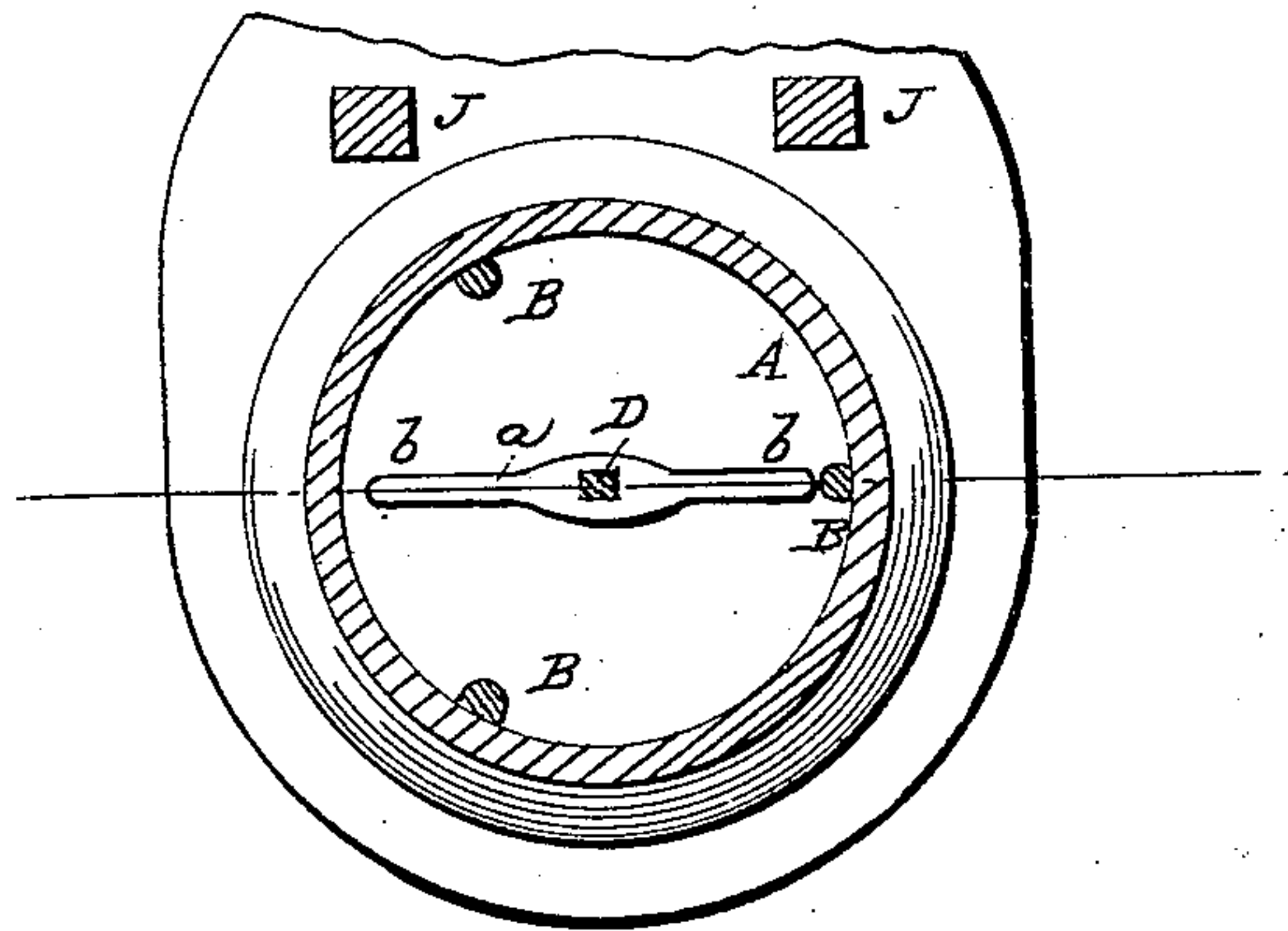


FIG. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WORDEN EDMISTER AND STEPHEN JOHNSON, OF MOUNT VERNON, OHIO.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 48,666, dated July 11, 1865.

To all whom it may concern:

Be it known that we, WORDEN EDMISTER and STEPHEN JOHNSON, of Mount Vernon, in the county of Knox and State of Ohio, have invented a new and Improved Churn; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of our invention, taken in the line *xx*, Fig. 2; Fig. 2, a horizontal section of the same, taken in the line *yy*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved dasher and a particular means for operating the same, as hereinafter fully shown and described, whereby butter may be produced from the cream in a short space of time and with but a moderate exertion or expenditure of power on the part of the operator.

A represents the cream-receptacle, which may be constructed of wooden staves bound together with hoops and of conical form, like the old churns, which are provided with reciprocating dashers. The inner side of the cream-receptacle A has cleats B attached to it, (three, more or less,) which extend from the bottom of the churn upward to within a short distance of its top and project radially inward a short distance, said cleats being placed at equal distances apart.

C represents the dasher, which is composed of two parts, *a a*, each provided with three arms, *b b b*, which project outward and downward from the dasher-shaft D at an angle of about forty-five degrees, (see Fig. 1,) the portion of the parts *a* above the arms *b* being perforated with one or more holes, *c*. The two parts *a a* of the dasher are precisely alike, and they are grooved at their inner edges, and those edges are abutted or placed in contact with each other, and the parts secured together by a wire

or a belt, the grooves in the edges alluded to forming a square hole for the shaft D to pass through, and on which the dasher may be secured higher or lower, to suit the quantity of cream in the receptacle, by means of a set-screw, *d*. The lower end of the shaft D is stepped at the bottom of the receptacle A, as shown at *e*, and said shaft a short distance above the lid *f* of A, which lid is composed of two parts, is connected by a suitable coupling, *g*, with an upright arbor, E, which has a pinion, F, upon it, said pinion gearing into a large bevel-wheel, G, on a horizontal shaft, H, the bearings of which are on a horizontal framing, I, supported by uprights J J from a base-plate, K, on which the cream-receptacle A is placed. The shaft H is driven by gears L L from a shaft, M, having a hub, N, upon it, into which radial levers O are fitted, in number and of length to suit the size of the cream-receptacle.

The relative size of the gears L L, wheel G, and pinion F is such that the dasher-shaft D will be rotated with a proper speed when the hub N is turned, which may be done with the greatest facility through the medium of the levers O, the latter being far superior to a crank for that purpose.

The dasher C, by its rotation, produces a great agitation of the cream, the cleats B promoting that result by preventing the cream being driven around in a circle in A by the dasher.

By means of the coupling *g* the shaft D and dasher C may be readily removed from the receptacle A and replaced at any time.

We claim as new and desire to secure by Letters Patent—

The dasher C, composed of two parts, constructed as shown, connected together and applied to the shaft D so as to admit of being adjusted higher and lower thereon, substantially as and for the purpose specified.

WORDEN EDMISTER.
STEPHEN JOHNSON.

Witnesses:

H. PHILLIPS,
C. C. BAUGH.