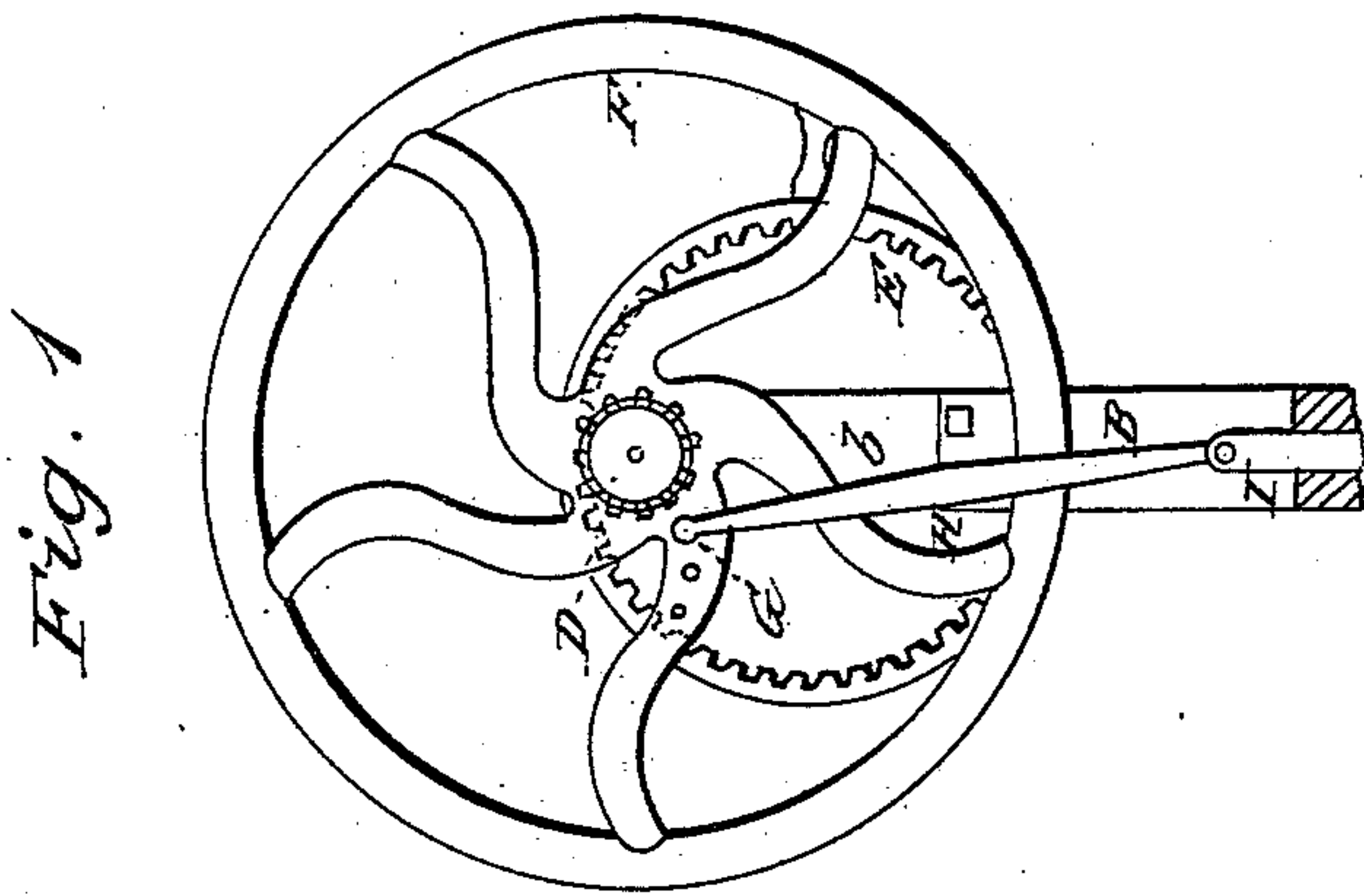
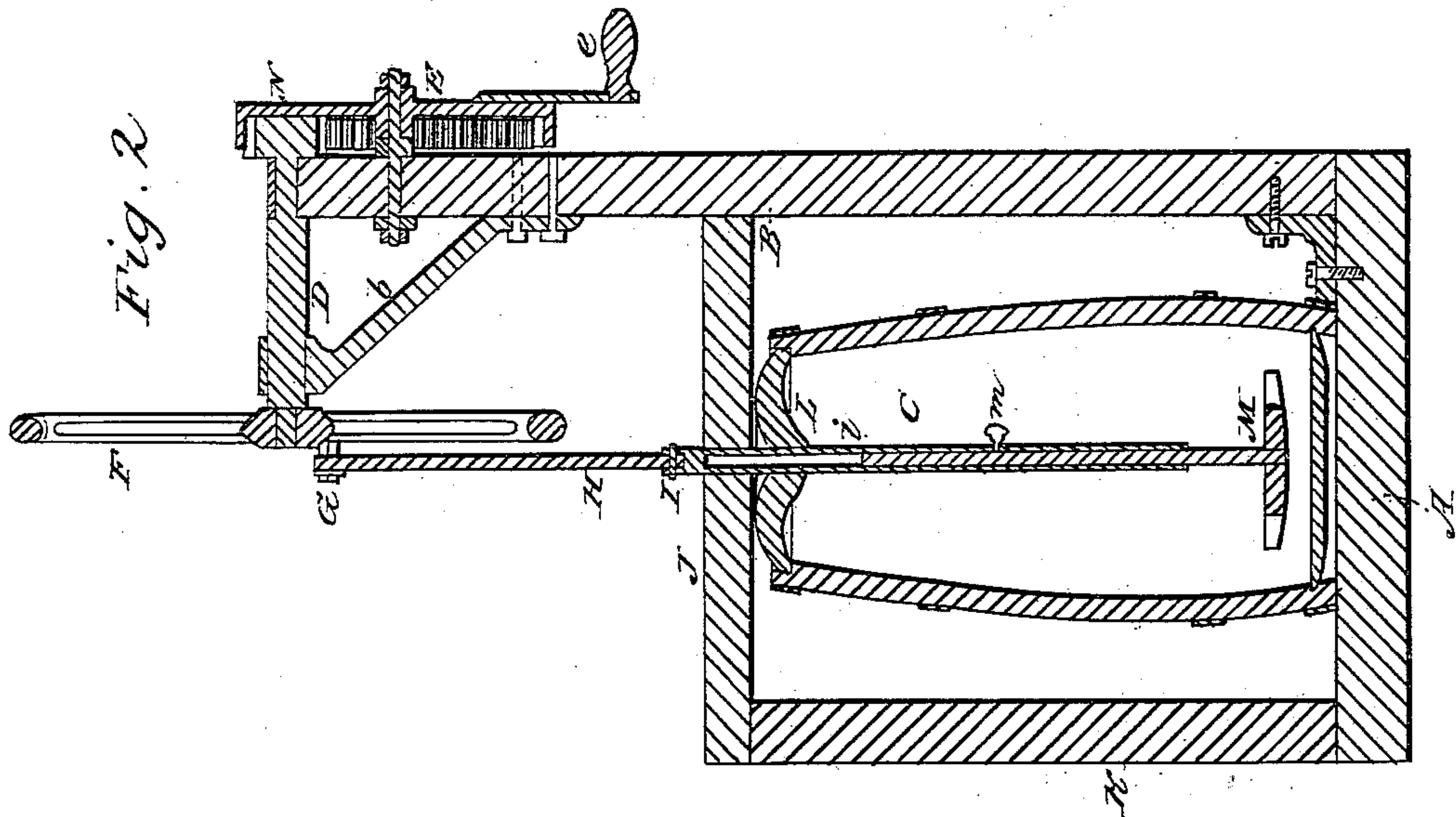


M. D. WALLACE.

Churn.

No. 64,463.

Patented May 7, 1867.



Witnesses:  
Edward H. Knight  
John C. Remon

Inventor:  
Marquis P. Wallace  
per Munroe  
Attorneys

# United States Patent Office.

MARQUIS D. WALLACE, OF WHITE CREEK, NEW YORK.

*Letters Patent No. 64,463, dated May. 7, 1867.*

## CHURN.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, MARQUIS D. WALLACE, of White Creek, county of Washington, State of New York, have invented new and useful improvements in Churns; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable one skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, which are made part of this specification, and in which the same letters indicate similar parts.

Figure 1 is a vertical central section.

Figure 2 is an elevation of the upper portion.

The vertical motion of the dasher is effected by the engagement of the driving-wheel with the pinion on the fly-wheel shaft, a wrist on the fly-wheel being connected by a rod with the dasher-shaft, which is telescopic, so as to admit of extension to enable the dasher to act within different portions of the vertical height of the churn, and it is also adjustable by the shifting of the wrist in the face or a spoke of the fly-wheel, so as to graduate its length of stroke.

In the drawings, A is the sill, and B the upright of the frame, upon which the churn C and moving parts of the machine are supported. The upright B has a branch, *b*, so that the main shaft D has two supports. On the outer end is the pinion N, whose teeth are engaged with those of the driving-wheel E, which has a crank or handle, *e*, and on the inner end of the shaft is the fly-wheel F, to whose wrist G is attached the connecting-rod H, whose lower end is pivoted by a screw to the dasher-shaft I. The dasher-shaft I may have a guide, J, which is supported from the stem B and a post, K, in the case of large churns, but in the case of small churns the guide J may be dispensed with, as the lid E of the churn C will be sufficient for the purpose. The churn-dasher is made telescopic, the outer and upper portion *i* being tubular, while the dasher M is attached to the central stem which is vertically adjustable in the tube, being maintained in the required position by the set-screw *m*. In the face of the fly-wheel F, or in one of its spokes, are several holes at different distances from its centre or axis of revolution. The wrist G, which connects with the plunger-shaft, is fitted to such one of these holes as may be desired, according to the length of stroke desired. This will vary with the quantity of cream or milk, and with other circumstances. To prevent the danger of catching the fingers or the clothes in the gearing the driving-wheel E has cogs on its interior perimeter, which engage with the teeth of the pinion N. The gearing may be driven by a band upon the wheel E proceeding from a dog-power or other motor. It will be perceived that by the adjustment of the wrist, which determines the length of the stroke of the dasher and the adjustment of the stem of the dasher, that the latter may be made to operate in such portion of the vertical height of the churn as may be considered desirable, either a short, quick stroke near the bottom or near the top, or a long stroke extending from the bottom to the top, or between such points as may be desired, according to the amount and character of the contents. When running by belt the crank-handle *e* of the wheel E will be removed, and the dasher can be removed from the churn by removing the screw which fastens the connecting-rod to the dasher-shaft and allowing the latter to subside below the guide, when the churn is slipped out and the lid and dasher removed.

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

The combination of the frame B *b*, and adjustable telescopic shaft I, constructed and operating as described.

MARQUIS D. WALLACE.

Witnesses:

E. BARTON, Jr.,

JOHN P. HUNT, Jr.