

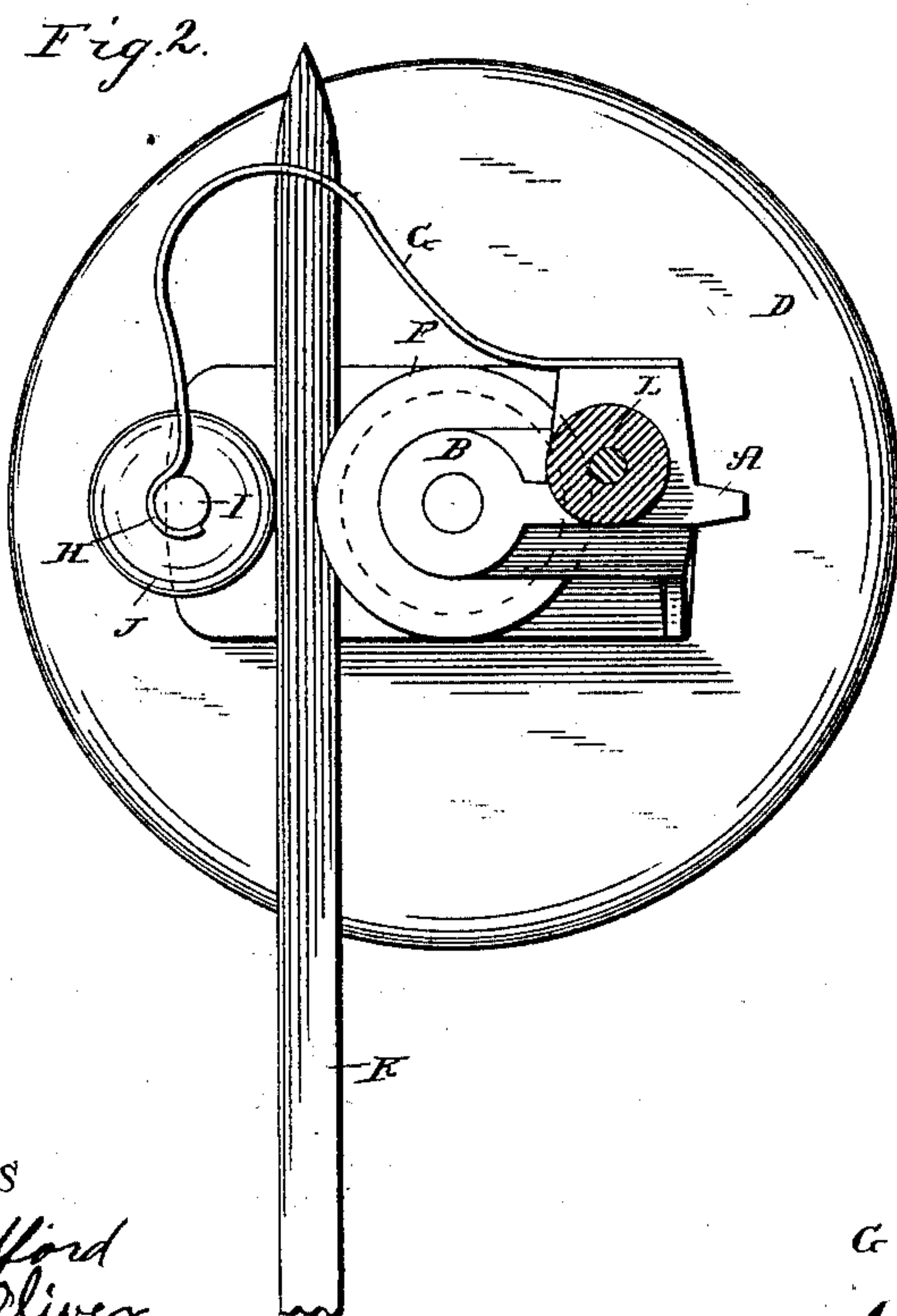
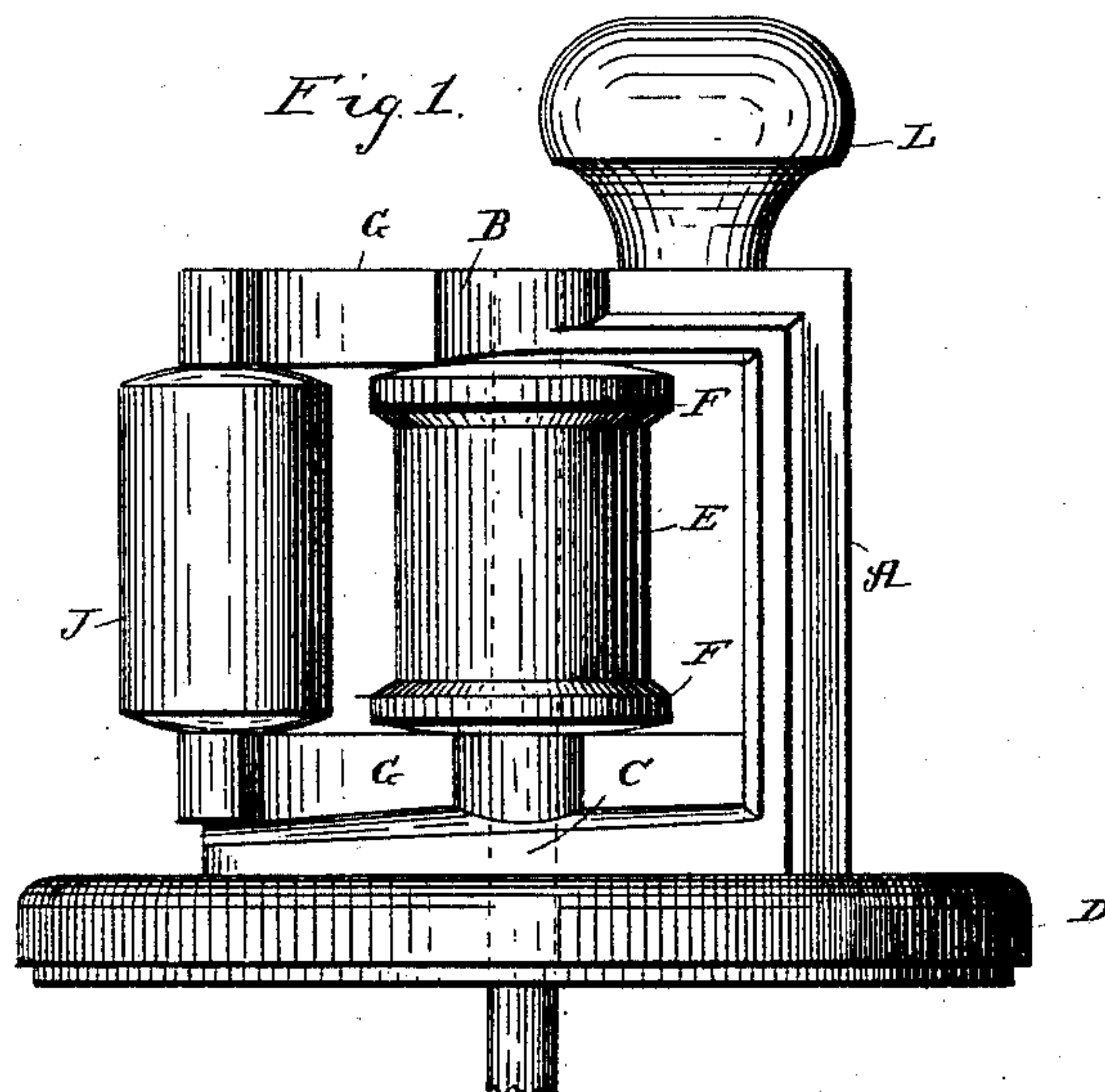
(No Model.)

G. B. WEBB.

MEANS FOR OPERATING CHURNS.

No. 371,113.

Patented Oct. 4, 1887.



WITNESSES

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MEANS FOR OPERATING CHURNS.

SPECIFICATION forming part of Letters Patent No. 371,113, dated October 4, 1887.

Application filed December 11, 1886. Serial No. 221,307. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. WEBB, a citizen of the United States, residing at Kinston, in the county of Lenoir and State of North Carolina, have invented certain new and useful Improvements in Means for Operating Churns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in mechanical movements, being especially intended to operate churn-dashers; and the invention consists, essentially, in providing a shaft to be operated—the churn-dasher shaft, for instance—with a roller, and in journaling another roller in spring-bearings, which tend to hold said roller toward the one on the shaft, and in inserting a bar between the two rollers and reciprocating it to impart a reciprocating rotary motion to the shaft.

In the accompanying drawings, forming a part of this specification, and on which similar letters of reference indicate the same or corresponding features, Figure 1 is a side elevation of my invention, and Fig. 2 a plan view thereof.

The letter A designates a frame, consisting of bearings B and C for the shaft of a churn-dasher, and secured to the churn-top D in any approved way. The dasher-shaft is provided with a roller, E, having flanges F at either end, to prevent the operating-bar, to be presently mentioned, from losing its position with respect to said roller E.

The letter G refers to two springs, which are secured at one end to the frame A, and which are curved, as shown in Fig. 2, and provided with bent portions H at their free ends, which serve to receive and hold the spindles I of the roller J. These springs, it will be observed, hold the roller J in a certain relation to the roller E, yet allow of the roller J being forced slightly away from the roller E.

The letter K refers to the operating-bar, of any convenient length, constructed to be

grasped by the hand at one end and preferably pointed at the other, so as to readily enter the space between the rollers J and E. The thickness of the bar is slightly in excess of the normal distance between the peripheries of the two rollers, so that when inserted between them it forces the roller J outward, and, through the springs G, is pressed firmly against the roller E by the roller J, so as to engage frictionally with the roller E. By reciprocating the bar K it imparts a reciprocating rotary motion to the roller E, and thence to the shaft upon which it is mounted—the churn-dasher shaft in the present instance.

It will be observed that by this arrangement the surfaces of the two rollers are smooth and regular, and the expense of cutting teeth in the roller E and corresponding teeth in the bar, so as to make them engage each other, is avoided, the action of the springs and the roller J serving to make the engagement between the bar and the roller E sufficiently positive for the purpose in view. The roller J is easily detachable from the springs G and the parts readily cleaned in case the milk is sprinkled upon them.

The letter L refers to the handle or knob by which the top and the incumbent mechanism are lifted from the churn-body.

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

1. The combination, with a frame forming bearings and a shaft mounted therein and provided with a roller, of springs secured to said frame at one end, a roller mounted in the springs at their other ends, and an operating-bar constructed to enter the space between the two rollers and of greater thickness than the maximum distance between the rollers.

2. The combination, with a churn-top, a frame secured thereto, the dasher-shaft journaled in said frame and provided with a roller having flanges at either end, of springs, one above and one below, secured to said frame, and a roller having its spindles fitted to said springs, and an operating-bar constructed to fit between the rollers and of greater thickness than the normal distance between said rollers.

3. The combination, with a shaft, a roller mounted thereon, and a frame forming bear-

ings for said shaft, of springs and another
roller carried by said springs and forced to-
ward the shaft when disturbed from normal
position, and an operating-bar constructed to
5 fit between the said rollers and to force one of
them away from the other and held by that
roller against the other roller.

In testimony whereof I affix my signature in
presence of two witnesses.

GEO. B. WEBB.

Witnesses:

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