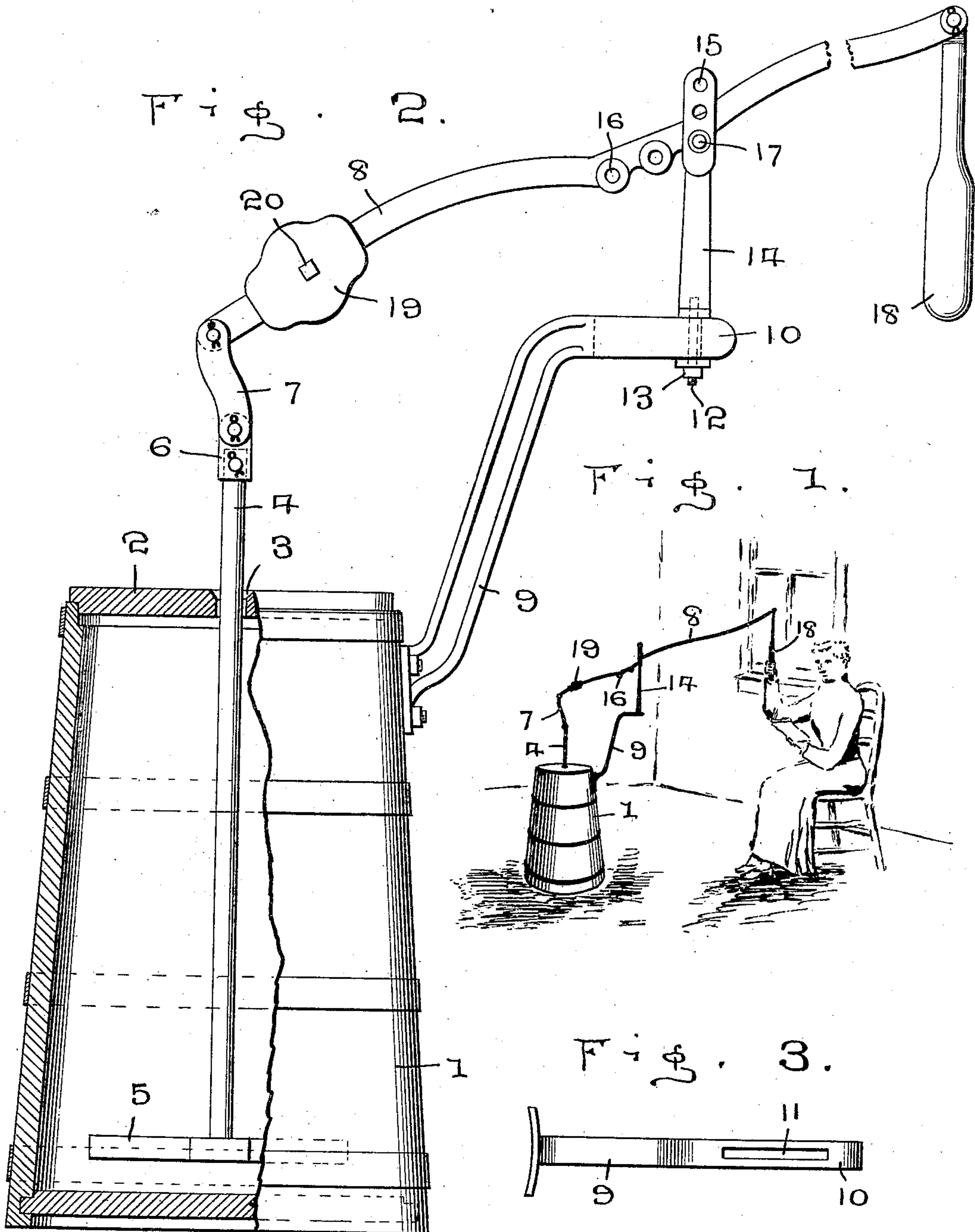


R. M. ROWE.
LEVER CONSTRUCTION FOR CHURNS.
APPLICATION FILED MAY 6, 1909.

934,217.

Patented Sept. 14, 1909.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT M. ROWE, OF BEAVER FALLS, PENNSYLVANIA.

LEVER CONSTRUCTION FOR CHURNS.

934,217.

Specification of Letters Patent. Patented Sept. 14, 1909.

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To all whom it may concern:

Be it known that I, ROBERT M. ROWE, a citizen of the United States, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Lever Construction for Churns; and I do hereby 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.

My invention relates to new and useful improvements in lever mechanism for churns and my object is to provide means for attaching a lever to the dasher rod, whereby the rod may be moved in a vertical plane, while the end of the lever describes the arc of a circle.

A further object is to provide a counterpoise, or weight for the lever.

A further object is to provide an adjustable post and bracket to which the lever is fulcrumed.

A further object is to provide means for adjustably attaching the lever to the post and a still further object is to provide a suitable grip or handle whereby the lever may be readily operated.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claim.

In the accompanying drawings forming part of this application, Figure 1 is a perspective view of a churn showing my improved lever mechanism in operative position thereon. Fig. 2 is an elevation thereof showing parts of the churn and lever broken away, and, Fig. 3 is a top plan view of the bracket for supporting the lever post.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates the churn body, which may be constructed in the usual or any preferred manner and of that class employing a reciprocating dasher, the upper end of the churn having a cover 2 at the axial center of which is provided an opening 3, through which extends a stem 4 of a dasher 5, which dasher may be constructed in the usual or any preferred manner.

Fixed to the upper end of the stem 4, is a head 6, to which is pivotally secured the lower end of a link 7, while to the upper end of the link is pivotally secured one end of

a lever 8, which lever is adapted to be operated to raise and lower the dasher.

Attached to the outer face of the churn body and adjacent the upper edge thereof, is a bracket 9, the upper end 10 of which is disposed in a horizontal plane and provided with an elongated slot 11, through which extends a bolt 12, the lower end of the bolt being engaged by a nut 13, while the upper end thereof is entered into a standard 14 and in view of the elongated slot, said standard may be adjusted toward or from the churn as desired.

The lever 8 in its length is pivotally attached to the upper end of the standard 14, said upper end of said standard being provided with a plurality of openings 15, while the lever 8 is also provided with a plurality of sockets 16, which are adapted to register with the openings 15 and by introducing a pin 17 through the openings, respectively, in the standard and socket, the lever 8 will be properly fulcrumed, and by this construction it will be readily seen that the stroke of the dasher may be readily increased or decreased and likewise the leverage increased or decreased.

In order to readily operate the lever to rock the same, a handle 18 is pivotally attached to the outer end of the lever 8, whereby when said handle is grasped, and downward pressure directed thereon, the opposite end of the lever will be elevated and the dasher moved to the upper end of the churn and in view of the curvature of the upper end of the link 7 and the manner in which it is pivoted to the dasher stem, said stem will move in a vertical line, while the end of the lever to which the handle is attached, will describe the arc of a circle and in order to facilitate the descent of the dasher, a counterweight 19 is adjustably attached to the lever 8 between its pivotal connection with the link and its fulcrum point, so that when the outer end of the lever is moved downwardly and pressure released therefrom, the counterweight and weight of the dasher will cause said dasher to readily descend in the churn, said counter-weight being held in its adjusted position by means of a set screw 20. In addition to this, upward pressure may be directed on the handle 18 to force the handle end of the lever upwardly. By providing this form of leverage, it will be readily seen that the churning process may be readily

facilitated and accomplished with the expenditure of a minimum amount of labor and time and it will likewise be seen that the dasher and stem to which it is attached will
5 be moved in a vertical plane and the stroke thereof may be readily regulated in relation to the amount of cream placed in the churn.

What I claim is:

10 The described churn actuating lever mechanism, comprising a dasher, a horizontally adjustable standard, a bracket for supporting said standard, a lever fulcrumed in said standard, said standard having a plurality of adjusting openings and said lever having
15 also a plurality of adjusting openings for registration with the openings of said standard, a pivot-member engaging the openings

of said lever and said standard, a reversely curved link having one end connected to the staff of the dasher, and the other end connected to said lever, a counter-weight applied to said lever intermediate of its fulcrum and said link and movable to and from said points, and a weighted manually actuated handle pivotally suspended from the
25 outer end of said lever.

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

ROBERT M. ROWE.

Witnesses:

CHAS. MEDLEY,

CHAS. S. BALLARD.