No. 815,358. PATENTED MAR. 20, 1906.

# C. W. LOWREY.

## CHURN.

APPLICATION FILED AUG. 30, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

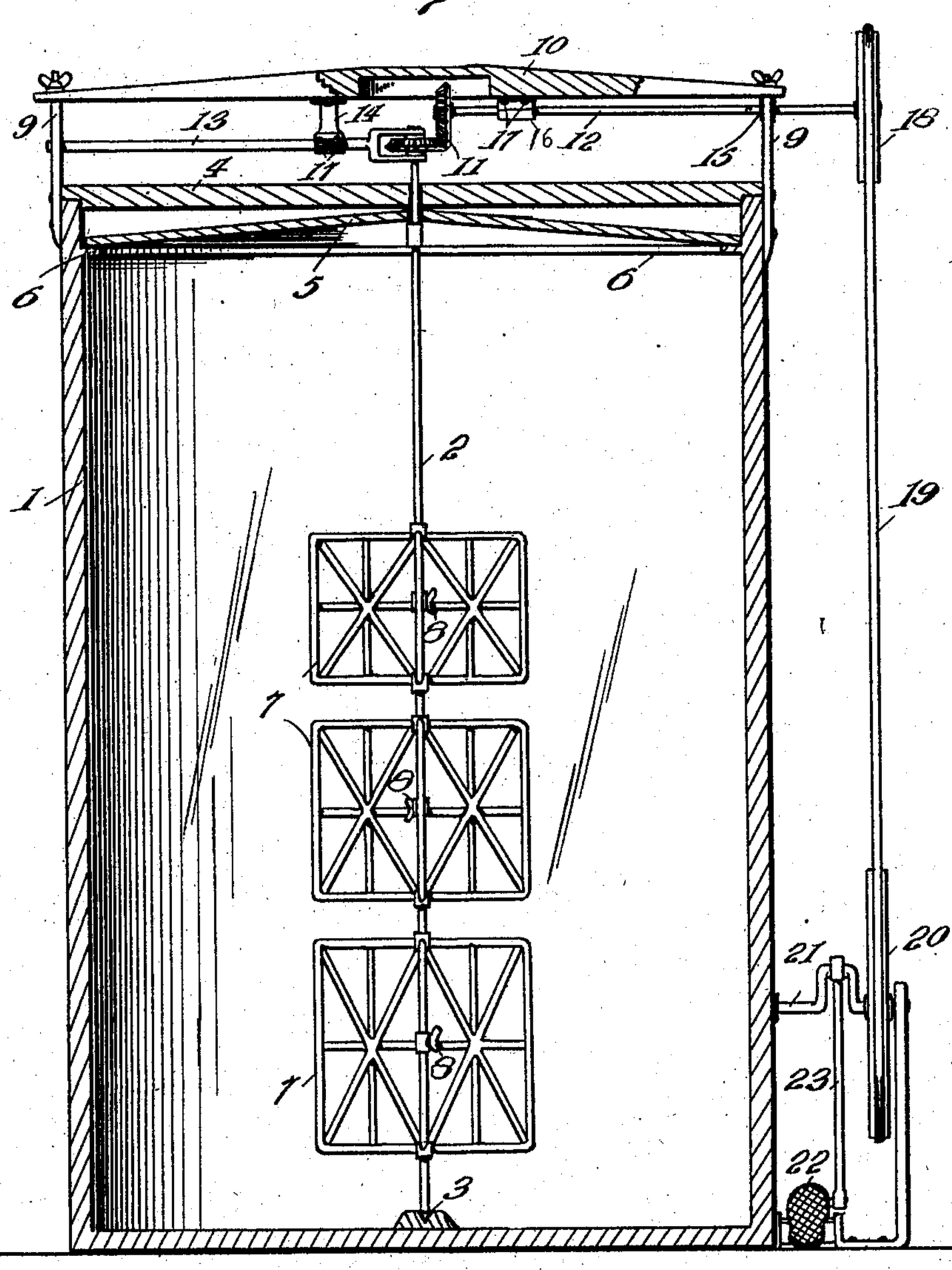
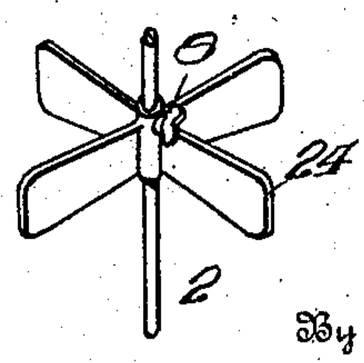



Fig. 4.




Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

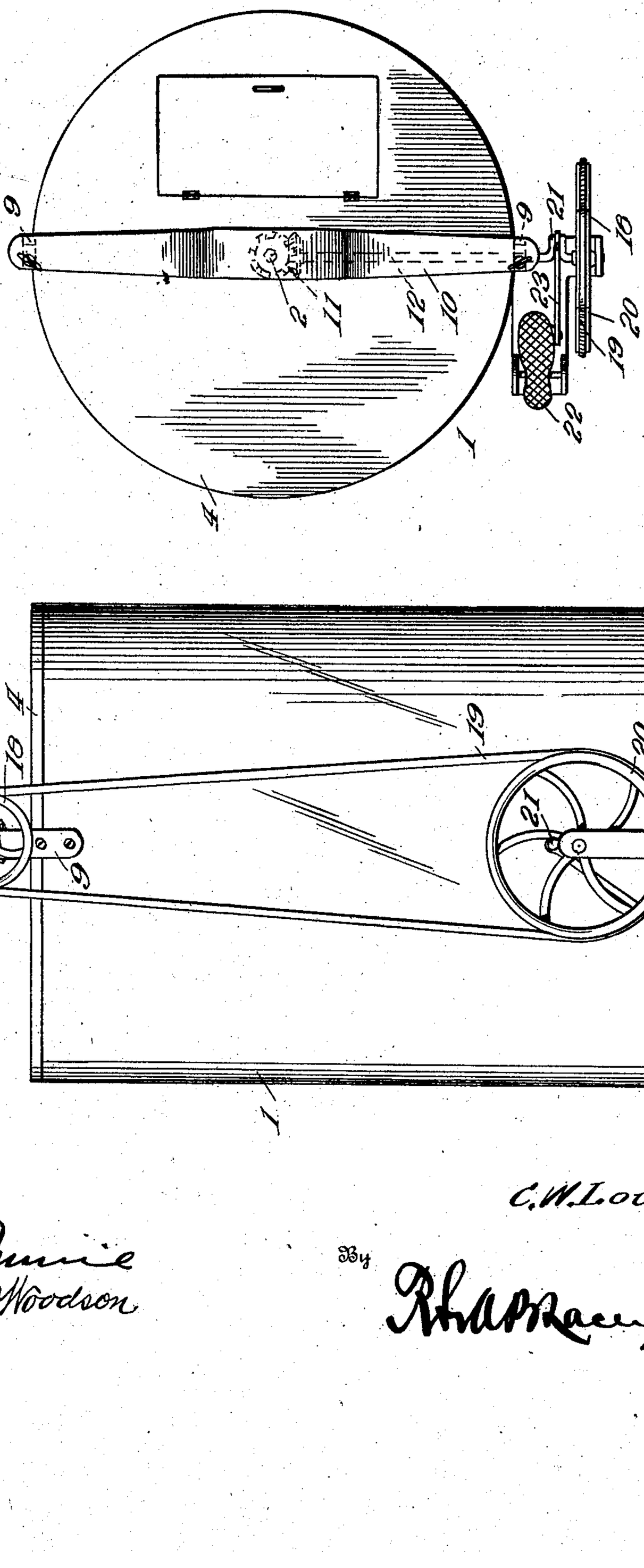


Fig. 2.




Witnesses

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# UNITED STATES PATENT OFFICE.

CLYDE W. LOWREY, OF CENTERVILLE, ALABAMA.

## CHURN.

No. 815,358. Specification of Letters Patent. Patented March 20, 1906.

Application filed August 30, 1905. Serial No. 276,403.

*To all whom it may concern:*

Be it known that I, CLYDE W. LOWREY, a citizen of the United States, residing at Centerville, in the county of Bibb and State of Alabama, have invented certain new and useful Improvements in Churns, of which the following is a specification.

This invention relates to improvements in churns, and more particularly to those employing a rotary dasher.

The object of the invention is to provide a churn of this character which will be simple in construction, which can be readily taken apart and cleaned, and which is so designed as to hasten the separation of the oily globules and facilitate the formation of butter.

A further object is to provide means whereby the dasher can be rotated by a treadle, thereby enabling the churn to be operated with a minimum amount of labor.

With these objects in view the invention consists, essentially, of a churn-body having a rotary dasher mounted therein which is connected by suitable gearing to a wheel upon the outside of the churn and means whereby said wheel can be operated by a treadle.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a longitudinal sectional view through the churn. Fig. 2 is a side elevation of the churn, showing the treadle mechanism. Fig. 3 is a top plan view of the churn. Fig. 4 is a perspective view of a modified form of dasher.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The numeral 1 designates the churn-body, which is provided with a rotary dasher-rod 2, the lower end of which rests in a socket 3, while the upper end passes through centrally-located openings in the covers of the churn. Two covers are provided, an outer cover 4 and an inner cover 5, which rests upon projections 6 on the side of the churn and slants outward toward the dasher-rod, so as to throw the cream toward the center of the churn and prevent it from splashing out. A series of plates 7 are slidably mounted upon the dasher-rod 2 and are adapted to be clamped in the desired position by means of set-screws 8. Upright members 9 project from diametrically opposite points on the top of the churn and have their ends connected by a removable cross-piece 10, provided with a centrally-located recess, which serves as a housing for the beveled gearing 11, by means of which the dasher-rod is connected to a transverse shaft 12. The dasher-rod is held in a fixed position when the churn is in operation by means of a brace member 13, provided with a bearing for the dasher-rod at one end and connected to one of the upright members 9 at the opposite end. This brace member 13 is supported at an intermediate point by a hook 14, projecting outwardly from the cross-piece 10. The shaft 12 passes through a suitable bearing 15 in the opposite upright member 9 and is suspended from the cross-piece 10 by a hook or support 16. Both of the hooks 14 and 16 are provided with screws 17, which enable the members supported thereby to be locked in position against withdrawal. A wheel 18 is mounted upon the outer end of the shaft 12 and is connected, by means of a belt 19, to a larger wheel 20, mounted upon a stub-shaft 21, projecting from the side of the churn-body. This wheel 20 is connected by the rod 23 to a treadle 22, which is mounted upon a shaft projecting from the lower portion of the churn. It will thus be understood that by operating the treadle 22 the wheels 20 and 18 will be caused to rotate and that motion will be transmitted to the dasher through the shaft 12 and the beveled gearing 11.

Instead of the plate 7, mounted upon the dasher-rod 2, it may be found desirable to employ fans 24, which can be similarly mounted thereon.

The superiority of this churn resides principally in the method of mounting the blades of the dasher, whereby same can be adjusted according to the amount of cream in the churn, in the peculiar construction of the cover, whereby any splashing of the cream is prevented, and in the gearing, by means of which motion is transmitted to the dasher from a treadle.

Having thus described the invention, what is claimed as new is—

The combination of a churn-body, upright members projecting from approximately diametrically opposite points on the top thereof, a removable cross-piece connecting said upright members, a guide member connected

to one of the upright members and provided with a bearing within which the dasher-rod rotates, a hook projecting from the cross-piece and serving as a support for the guide member, a shaft passing through the opposite upright member, a second hook projecting from a cross-piece and serving as a support for the shaft, intermeshing gearing connecting the shaft and the dasher-rod, and means whereby the shaft can be rotated by a treadle mechanism.

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

CLYDE W. LOWREY. [L. S.]

Witnesses:
S. D. HALL,
J. S. MOORE.