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JOHN A. JORDON.

Improvement in Churns.

No. 122,026.
Fig. 1.

Patented Dec. 19, 1871.

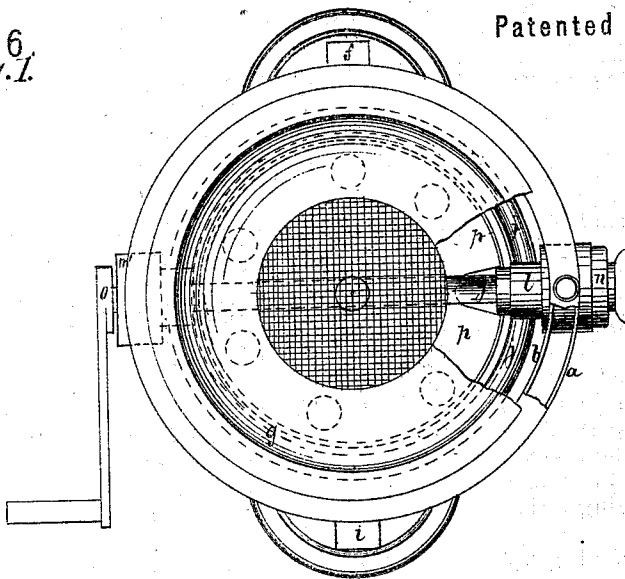


Fig. 3.

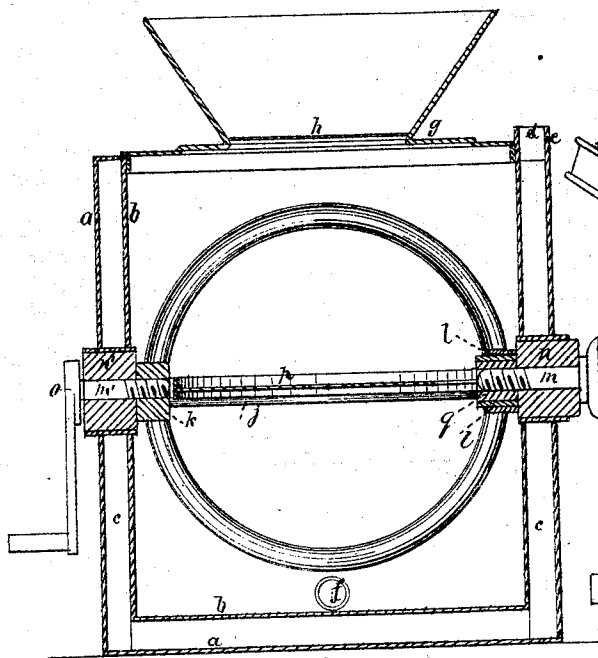
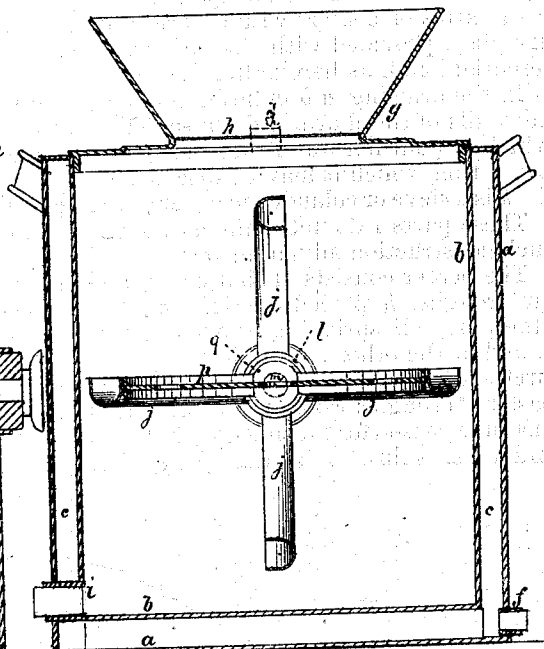


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN A. JORDAN, OF SHELBYVILLE, TENNESSEE.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 122,026, dated December 19, 1871.

To all whom it may concern:

Be it known that I, JOHN A. JORDAN, of Shelbyville, in the county of Bedford and State of Tennessee, have invented certain Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 is a top view. Fig. 2 is a vertical section transverse of the beater, and Fig. 3 is a vertical section lengthwise of the beater.

My present invention is an improvement on that for which Letters Patent were granted me March 30, 1858. It consists in the combination of semicircular or trough-shaped revolving sheet-metal arms or beaters with a perforated stationary plate provided with a raised rim or circumferential band, as hereinafter described.

In the drawing, *a b* indicate the outer and inner walls of the churn, and *d* an opening through which to pour hot water into the space or chamber *c*, from which it may be discharged by spout *f*. *h* is a sieve or colander in cover *g* of the churn.

These parts I do not claim as novel, but find such construction advantageous.

The beater consists of four or more semicircular troughs, *j*, placed at right angles to each other, and all springing at one end from a hub, *k*, and at the other end from a ring, *l*, which encircles a hub, *q*, that is mounted on a screw, *m*, passing through a wooden plug, *n*, which is placed in a tube passed for the purpose through the outer and inner skins. A similar plug, *n'*, is passed

through the opposite side of the churn. These plugs prevent leakage. The hub *k* is mounted on a screw, *m'*, passed through the plug *n'*, which screw carries fixed to its outer end a crank, *o*, by turning which the beaters *j* are revolved. The hub *q* supports a circular perforated plate, *p*, which stands across the churn within the beaters *j*, and can be made stationary in horizontal position by means of the screw *m*. The function of the plate *p* is to gather the butter and keep it elevated above the bottom of the churn in a position whence it can easily be removed, thus preventing waste by the intermingling of the particles of the butter with the milk. To the edge of this plate is secured a ring or band, as shown in Figs. 2 and 3, whose function is to assist in breaking up the fatty globules in the cream and gathering the butter.

The operation of the arms or beaters *j* is also much more efficient than the ring employed in my previous invention, owing to the difference in form.

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

The revolving semicircular or trough-shaped beaters *j* formed of sheet metal, in combination with the perforated stationary plate *p* provided with raised edge or band, as shown and described.

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