(Model.)

C. JONES.

CHURN.

No. 345,060. Patented July 6, 1886.

Fig. 1.

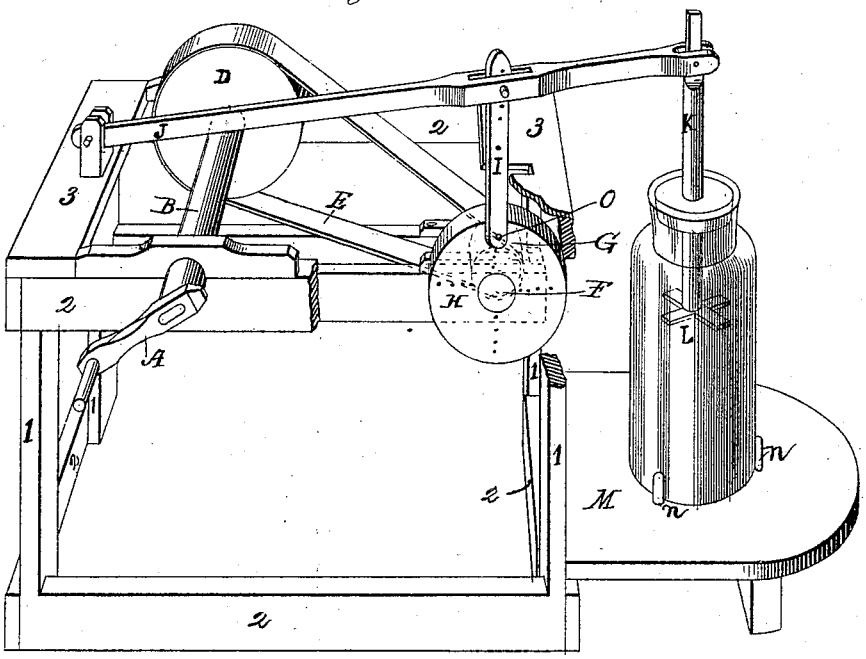


Fig. 2.

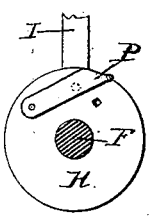
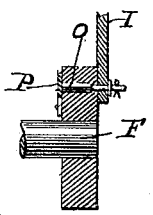


Fig. 3.



Witnesses:
J. J. Taylor.
J. D. Hutton

Inventor:
Caleb Jones

UNITED STATES PATENT OFFICE.

CALEB JONES, OF RICHLAND SPRINGS, TEXAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 345,060, dated July 6, 1886.

Application filed July 28, 1881. Serial No. 139,032. (Model.)

To all whom it may concern:

Be it known that I, CALEB JONES, a citizen of the United States, residing at Richland Springs, in the county of San Saba and State of Texas, have invented a new and useful Improvement in Churns, of which the following is a specification.

My invention relates to improvements in reciprocating churns; and the object of my improvement is to afford facilities for the proper adjustment of the dasher to the quantity of cream desired to be churned, thereby adapting the device to various wants of different families. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of the machine, with portions of the frame broken away and churn attached. Fig. 2 is a view of the fly-wheel inverted, illustrating the cap or slide that secures the crank-pin in place when adjusted. Fig. 3 is a sectional view of the fly-wheel, illustrating more clearly the fly-wheel and pitman-rod and the adjustable pin connecting said rod with the fly-wheel.

Similar letters and figures refer to similar parts throughout the different views.

1 1 of Fig. 1 refer to the uprights or corner-posts, 2 2 the side boards or slats, and 3 3 the cross-ties or girders. These parts constitute the frame-work of the machine. On the top of the frame is journaled the driving-shaft B, carrying the crank A and pulley D, and forward of said shaft is another shaft, F, carrying pulley G and fly-wheel H, the two pulleys G and D being connected by a belt, E. Fly-wheel H is provided with a series of holes located at different distances from the center, and each hole is of a square or equivalent contour for nearly its length, and is then circular. A wrist-pin, O, of a contour to fit any one of the holes, is inserted from the rear side of the wheel, and is prevented from endwise movement by a cap, P, hinged to the wheel and adapted to cover any one of the holes in the series. Connected to the front protruding portion of this pin is a pitman, I, the upper end of which is inserted in a slot in a pivoted lever, J, and is secured therein by a pin. The pitman is also provided with a series of holes at its upper end, and when the crank-pin is adjusted as described it can likewise be adjusted. By the means described the motion of the pivoted lever can be regulated with great nicety, and the throw of the dasher-rod and dasher K in churn L adjusted to operate on the quantity of cream desired. The churn is secured on table M by means of movable pins *n n*.

I am aware that the operating devices of my churn are mainly old, and also that it is common to adjust the throw of a dasher by means of a pitman capable of connection with any one of a series of holes in a fly-wheel; but I am not aware that the peculiar devices herein described for connecting the wrist-pin with the fly-wheel have been before devised.

What I claim, and desire to secure by Letters Patent, is—

The combination, with driving devices and the pivoted dasher-operating lever, of the fly-wheel provided with a series of holes each of square contour throughout the greater part of its length, the wrist-pin shaped to fit in any one of said holes, the cap pivoted on the rear side of the fly-wheel and adapted to cover any one of the holes in which the pin may be placed, and the pitman attached to the wrist-pin and connecting the same with the pivoted lever, as described.

CALEB JONES.

Witnesses:
J. D. HUTTON,
J. J. TAYLOR.