(No Model.)

J. PRATT & J. A. PARKER.

CHURN.

No. 392,165. Patented Oct. 30, 1888.

Fig. 1.

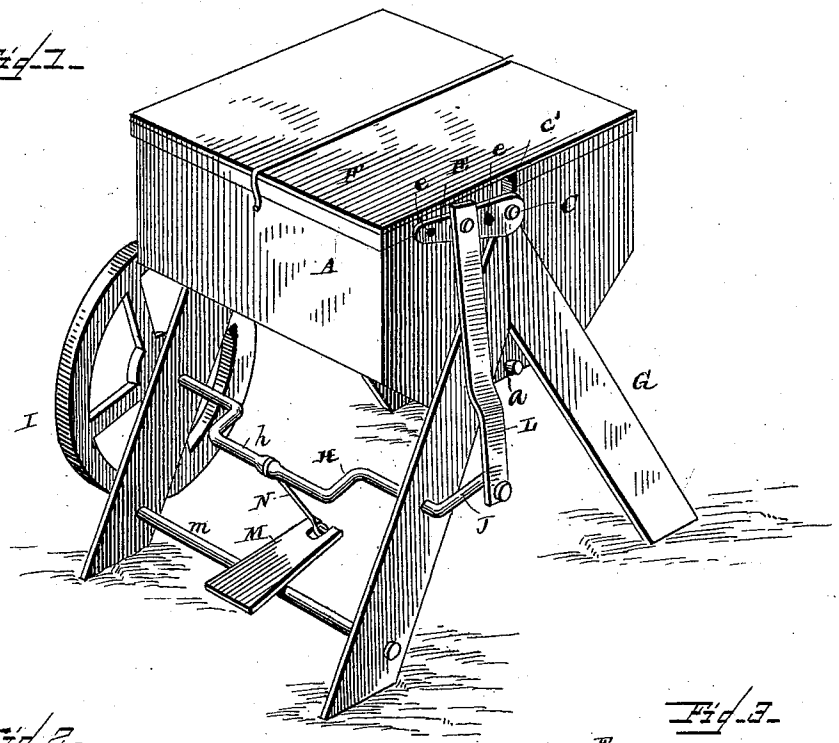


Fig. 2.

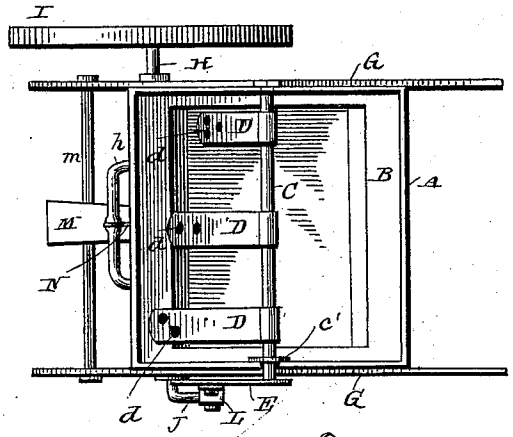


Fig. 3.

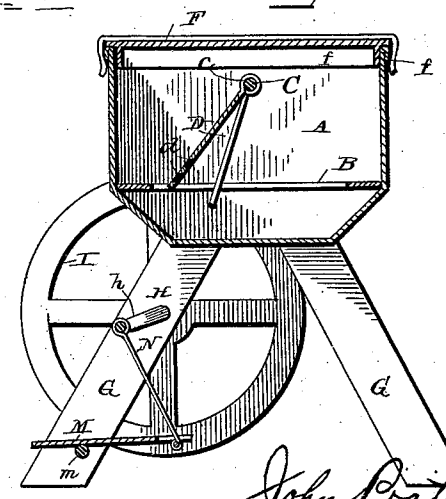
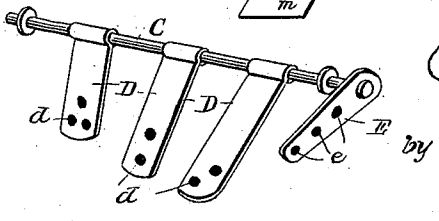


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JOHN PRATT, OF HARRISON, AND JOSEPH ALLEN PARKER, OF BUFFALO, PENNSYLVANIA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 392,165, dated October 30, 1888.

Application filed June 16, 1888. Serial No. 277,340. (No model.)

To all whom it may concern:

Be it known that we, JOHN PRATT, of Harrison, in the county of Allegheny and State of Pennsylvania, and JOSEPH ALLEN PARKER, of Buffalo, in the county of Butler and State of Pennsylvania, citizens of the United States, have invented certain new and useful Improvements in Churns, of which the following is a specification.

This invention relates to churns adapted to be operated by hand or foot power, and its object is to provide a churn of this character possessing advantages in point of simplicity, inexpensiveness, durability of construction, ease of operation, and general efficiency.

In the drawings, Figure 1 is a perspective view of a churn embodying our invention. Fig. 2 is a top or plan view with the cover removed. Fig. 3 is a vertical sectional view. Fig. 4 is a detail perspective view of the dasher shaft and arms.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the churn-body, which may be constructed of any suitable material or in any suitable form. The lower portion of the body is inwardly beveled, as shown, and upon the upper edge of this beveled portion rests a removable rectangular frame, B, adapted to prevent the contents of the churn from surging back and forth in a solid mass during the process of churning. An opening, *a*, is provided at the lower edge of the churn-body, through which the milk can be drawn off when desired.

C designates a removable dasher-shaft, having a bearing at one side of the churn in a recess, *c*, and at the opposite side in a vertical elongated slot, *c'*. The shaft C is provided with radial dasher-arms D, projecting therefrom at different angles, said arms being perforated at their ends, as shown at *d*. At the outer end of the shaft is secured an arm, E, at right angles thereto, provided with a series of perforations, *e*, the purpose of which will be hereinafter described.

The churn-body is provided with a cover, F, having a flange, *f*, at its edge adapted to fit tightly within the churn-body and close the portion of the slot *c'* not occupied by the dasher-shaft, thus entirely obviating leakage.

The churn-body is supported upon suitable legs, G, upon the front pair of which are provided bearings for a crank-shaft, H. To one end of this shaft is secured a fly-wheel, I, while the other end is provided with a crank-arm, J. The crank-arm J is connected with the arm E on the dasher-shaft by a pitman, L, which is connected with the arm E by a pin secured in one of the perforations *e*.

M designates a treadle secured to a shaft, *m*, having bearings at the lower ends of the front supporting-legs. The treadle is connected with a crank, *h*, on the shaft H by a pitman, N.

If desired, the churn may be operated by hand-power by providing a crank-arm (not shown) on the end of the dasher-shaft, in lieu of the foot-power mechanism herein shown.

The operation and advantages of our invention will be readily understood by those skilled in the art to which it appertains. After the churning has been completed the frame B and dasher-shaft can be removed and the milk drawn off through the opening *a*, thus leaving a smooth bowl in which the butter can be pressed.

By providing the arm E with the series of perforations the pitman L can be connected with any one of them, whereby the oscillation of the dasher-arms can be regulated.

We claim as our invention—

The herein-described churn, comprising the body having the inwardly-beveled lower portion provided with an open but continuous horizontal frame corresponding in shape to said body and resting upon the upper edge of the beveled portion, said frame being removable for the purpose set forth, in combination with a dasher-shaft disposed within the body above the frame and provided with radially-arranged dasher-arms which project through the said frame, and having an arm at its outer end and a pitman adjustably connected therewith at one end and at its other end with a crank-shaft, a treadle for operating the dasher-shaft, and a pitman connecting the crank-shaft and treadle, all arranged and adapted to operate substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN PRATT.
JOSEPH ALLEN PARKER.

Witnesses:
LOUIS SCHMETZ,
W. H. STEWART.