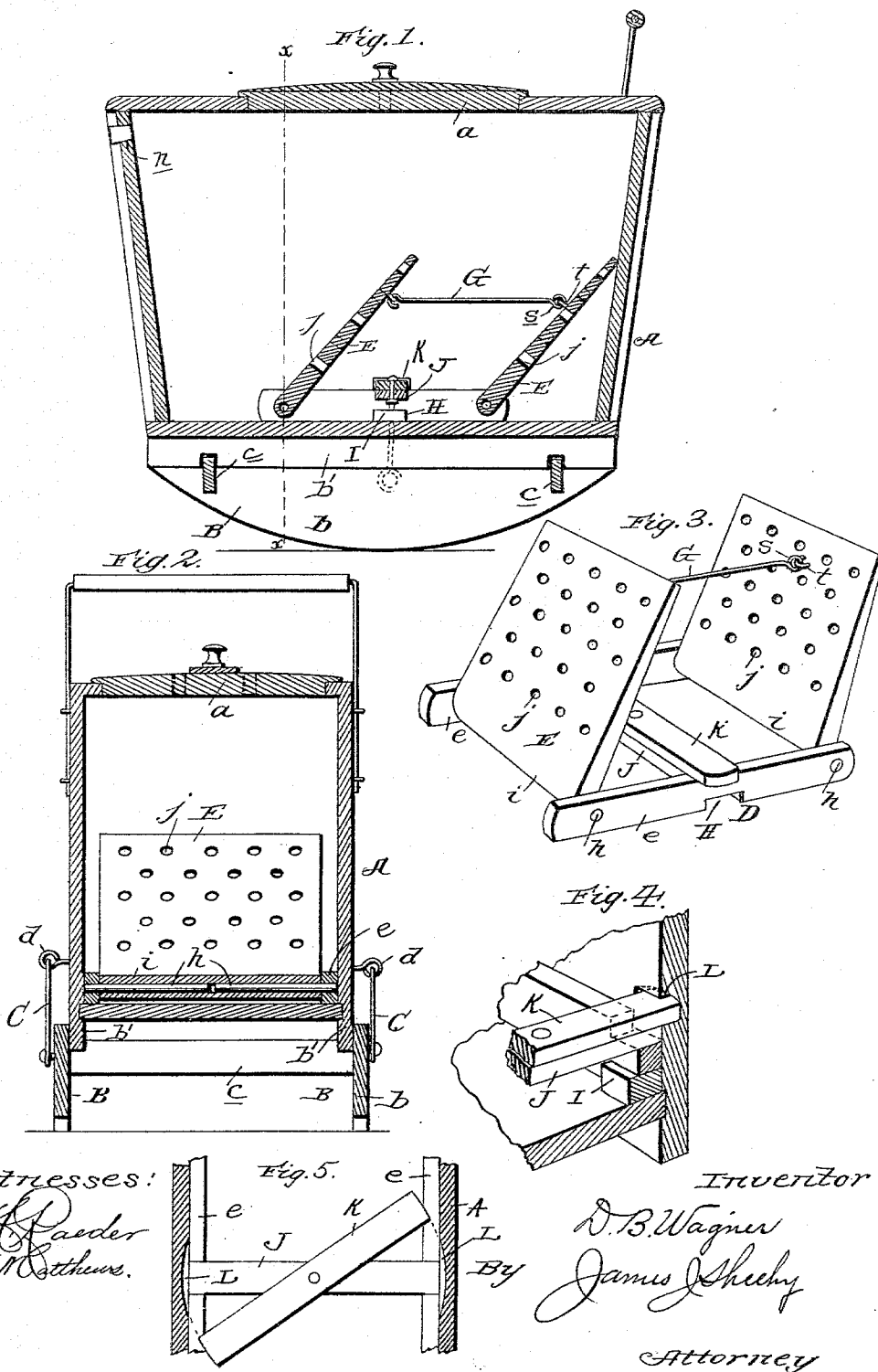


(No Model.)

D. B. WAGNER.
CHURN.

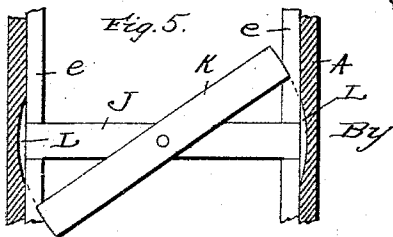
No. 531,704.

Patented Jan. 1, 1895.



Witnesses:

C. P. Paeder
N. P. M. Cothurns.



Inventor

D. B. Wagner

By *James J. Sheehy*

Attorney

UNITED STATES PATENT OFFICE

DANIEL B. WAGNER, OF FINDLAY, OHIO.

CHURN.

SPECIFICATION forming part of Letters Patent No. 531,704, dated January 1, 1895.

Application filed September 27, 1894. Serial No. 524,299. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. WAGNER, a citizen of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Churns; and I do 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.

This invention relates to an improvement in rocking-body churns, and it has for its object to increase the efficiency of such devices, by simplifying the construction, rendering the operation easy, and permitting the butter to be readily removed, and the parts easy to be cleaned and kept clean.

The invention and its advantages will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a vertical, longitudinal, sectional view of my improved churn. Fig. 2, is a cross sectional view of the same, taken at the point indicated by the dotted line *x, x*, of Fig. 1. Fig. 3, is a perspective view of the dashers and their frame removed. Fig. 4, is a perspective, sectional, detail view of the churn body and dasher frame, and Fig. 5, is a sectional, detail view of the body and a plan of a part of the dasher frame.

Referring by letter to said drawings:—A, indicates the churn body which is of approximately rectangular, elongated form, and has its end walls flaring slightly from top to bottom, as shown. This body is provided in its top with a center opening designed to be closed by a suitable cover *a*, having vent apertures, and is mounted upon a rocker base B, which may comprise two parallel rockers *b*, suitably connected by cross bars *c*, which are designed to enter notches in bars *b'*, arranged lengthwise of the body on the under side thereof. The body is designed to be placed upon the cross-bars between the rockers so as to prevent lateral displacement, and is secured to the rockers by means of catches C; the cross bars *c*, serving to prevent longitudinal movement of the body on the base. There is one catch employed on each side centrally of the rockers, and the catches are pivoted at their lower ends to the rockers, as shown, and their

upper ends are designed to detachably engage with lateral screw-eyes *d*, in the outer walls of the churn body. These catches are designed to hold the body to the rocker-base during operation, and when it is desirable to remove the body, the catches are disengaged from the eyes.

D, indicates the dasher frame. This frame comprises two parallel, longitudinal bars *e*, notched midway of their length on their under sides as shown at H, to receive within them the blocks I, secured to the floor of the body at opposite points. These side bars are connected by means of a cross bar J, to the center of which is pivoted a lock bar K, the ends of which extend beyond the side bars *e*, of the frame, and take into recesses L, in the side walls of the body. It will thus be seen that the frame and consequently the blades are removably but firmly secured to the bottom wall or floor of the churn; the lock bar preventing the frame from rising while the blocks in conjunction with the notched bars will prevent it from slipping or sliding lengthwise, yet allowing the entire frame to be quickly and easily removed for cleaning or other purposes.

E, indicates the dasher blades. These blades are of a peculiar construction, being formed of wood or other suitable material, and are pivoted one in each end of the frame by means of rods *h*, pins, or the like; the journals being in some cases formed integral with the blades. These blades which extend upwardly from the base, are thickest at their lower or journal ends *i*, as shown, and taper upwardly through out their length, and preferably have numerous holes or apertures *j*, extending through them. By this manner of constructing the dasher blades, it will be seen that the butter may be more easily removed from the tub. It will also be perceived that the cream will be thrown violently upward and alternately in opposite directions and the dashers, while being very effective, will not occupy as much space as if the same increased in thickness throughout. This form of blades also serves to throw off the animal heat and any impurities which arise during the operation, so as to thoroughly ventilate and keep cool the contents.

The body of the churn is provided in one of its side walls near its top, with a hole *n*, for

drawing off water and during the operation, the body in its rocking movements will cause such water as may be forced out of the cream to be discharged.

- 5 The dasher blades which are pivotally secured to the frame at their lower ends, are connected together at a suitable distance from their upper ends, by means of a rod G, with
10 hooks s, at opposite ends taking into staples t, in the dasher blades. By this construction, it will be seen that the blades will vibrate parallel and will thoroughly and quickly break up globules in the cream.

Having described my invention, what I
15 claim is—

1. The combination with the vibratory dashers; of the frame upon which said dashers are pivoted comprising the parallel side bars having notches in their under sides, the
20 cross bar, and the locking bar pivoted to said cross bar, and the body having its side

walls recessed, and the blocks upon its bottom adapted to enter the recesses of the side bars, substantially as specified.

2. A rocking body churn comprising the 25 body having its side walls recessed and also having the blocks I, upon its bottom, the dasher frame D, arranged in the body and having the parallel side bars provided with notches in their under sides adapted to en- 30 gage the blocks I, the cross bar and the locking bar pivoted to said cross-bar and adapted to enter the recesses in the side walls of the body, and the tapering, vibratory blades connected to the frame D, and also connected 35 together, substantially as specified.

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

DANIEL B. WAGNER.

Witnesses:

SILAS E. HURIN,
W. W. SHULER.