

(No Model.)

J. F. RICHARDSON.
ROCKING CHURN.

No. 542,659.

Patented July 16, 1895.

Fig. 1.

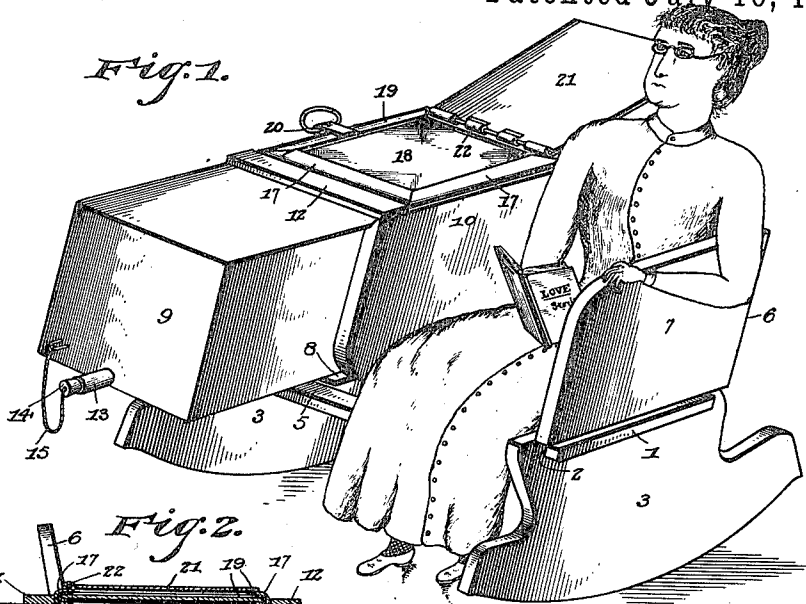


Fig. 2.

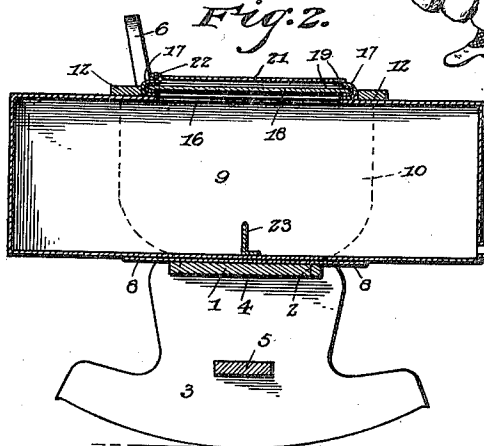


Fig. 3.

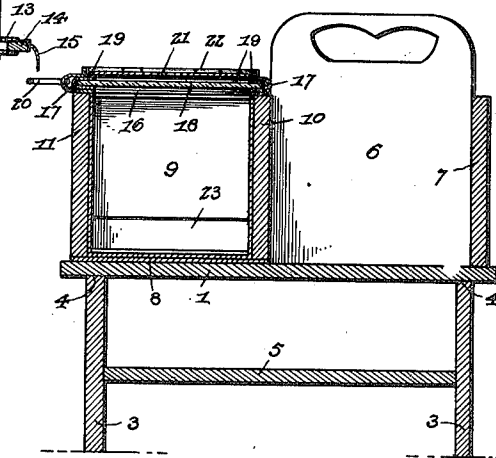
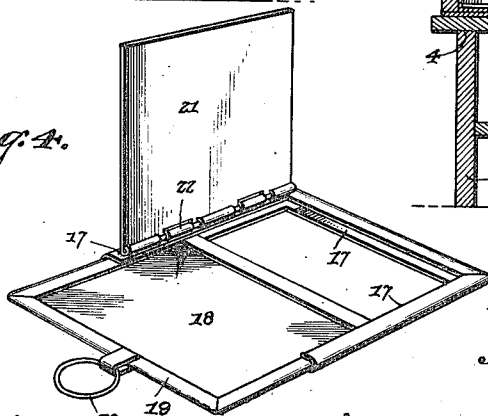


Fig. 4.



Witnesses

B. S. Ober.

J. R. Owens.

By his Attorneys.

Inventor
Joseph F. Richardson

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOSEPH F. RICHARDSON, OF BIRK'S CITY, KENTUCKY.

ROCKING CHURN.

SPECIFICATION forming part of Letters Patent No. 542,659, dated July 16, 1895.

Application filed August 8, 1894. Serial No. 519,754. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH F. RICHARDSON, a citizen of the United States, residing at Birk's City, in the county of Daviess and State of Kentucky, have invented a new and useful Rocking Churn, of which the following is a specification.

My invention relates to churns of the class designated as "rocking," and has for its object to simplify and improve the construction of devices of this class to facilitate the operation and enable the operator to view the progress of the churning process without leaving the seat.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of a churn constructed in accordance with my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a transverse section. Fig. 4 is a detail view of the cover and transparent slide detached.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a base-board provided at its extremities with notches 2 for the reception of upwardly-extending ears on the rockers 3. The depressed or cut-away portions 4, by which the ears are formed upon the rockers, receive the reduced portions of the base-board 1, and thereby form a rigid connection between the parts. Stiffness is added to the structure by the transverse brace 5, which connects the rockers.

Rising from the base-board at its extremities are the side boards 7 and 11, and between said side boards at an intermediate point of the base-board is arranged the partition-board 10. The space between the partition-board 10 and the side board 11 forms a seat for the churn-body 9, said body resting upon a sheet-metal plate 8, which is arranged upon the base-board and extends in front and in rear thereof to form a rest of the desired extent for the churn-body.

Connecting the rear edges of the side board 7 and partition-board 10 is a seat-back 6 to support the back of the operator when seated

upon the base-board in the interval between said side board 7 and partition-board 10.

The churn-body is provided at one end with an outlet 13, having a stopper 14 attached to a retaining cord or chain 15, and an opening 16 in the upper side of the churn-body is fitted with a closure, including a hinged cover of opaque material and a slide removably attached to the churn-body and adapted to close the opening without interfering with a view of the contents. Around said opening 16 in the top of the churn-body is arranged a channeled guide 17, and a transparent slide 18 is provided at its edges with a metallic frame 19, which prevents the chipping or breaking of the edges of the slide and forms suitable surfaces for contact with the guide. A finger-ring 20 is attached to the outer side frame 19 to facilitate the removal of the slide. Hinged to the rear side of the channeled guide 17 is an opaque, preferably metallic, cover 21, the hinges 22 of which have their pivotal points in a plane above the upper surface of the channeled guide, whereby the cover may be thrown back and occupy a position in a plane parallel with the upper surface of the churn-body to allow the operator, while seated upon the base-board, to view the operation of churning through the transparent slide. Arranged within the churn-body is an agitating-web 23 to obstruct the passage of the contents from one end of the churn-body to the other.

From the above description it will be seen that the churn embodying my invention is adapted to be operated by a person seated upon the base-board between the upright boards 7 and 10, and the rocking of the apparatus causes the contents of the churn-body to be thrown violently from one end thereof to the other, the length of the churn-body being parallel with the planes of the rockers and the upper side thereof being in such a plane as to allow the operator to view the contents without leaving the seat.

The churn-body is held from longitudinal movement and displacement by means of transverse cleats 12 connecting the upper edges of the side and partition-boards 11 and 10, respectively, in advance of the front side and in rear of the rear side of the channeled

guide. The front and rear sides of the channeled guide are arranged at a less interval than the front and rear edges of the boards 10 and 11, whereby the cleats 12 may be secured to said upper edges of the boards and bear against the front and rear sides of the channeled guide, and hence lock the churn-body in place.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

15 In a churn, the combination of a transverse seat-board provided at its extremities with rockers and constructed at one end to form a seat, parallel boards rising from the base-board at an interval to form a seat for a churn 20 body, a churn body arranged in the interval between said vertical boards and elongated parallel with the planes of the rockers, said churn body being provided at its upper side

with an opening, a channeled guide extending around three sides of said opening and 25 open at its outside, a transparent slide fitted at its edges in said guide, an opaque cover hinged to the rear side of the guide with the axis of its hinges above the plane of the guide, whereby said cover is adapted to fold 30 parallel with the top of the churn body, and cleats connecting the upper edges of the vertical boards, respectively, in front and in rear of and in contact with the front and rear sides of the channeled guide and extending 35 over the contiguous portions of the churn body, whereby said body is held from longitudinal movement and displacement, substantially as specified.

In testimony that I claim the foregoing as 40 my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH F. RICHARDSON.

Witnesses:

G. TROTTER TYLER,
JOHN W. CARTER.