

Nov. 20, 1923.

1,474,741

W. J. TRESNAK

BUTTER CHURN

Filed March 6, 1923

2 Sheets-Sheet 1

FIG. 1.

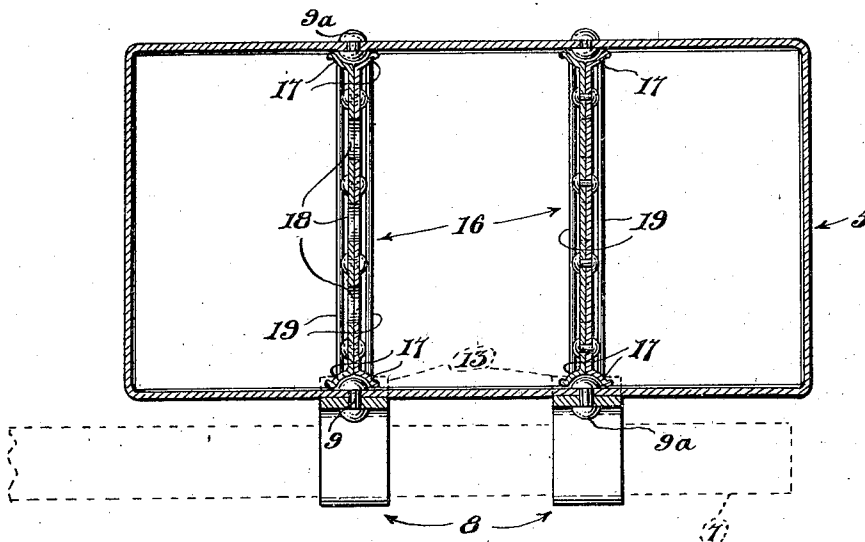


FIG. 2.

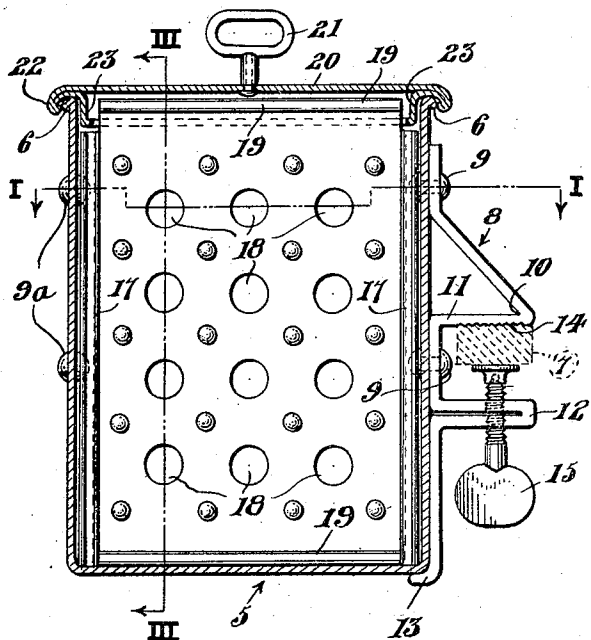
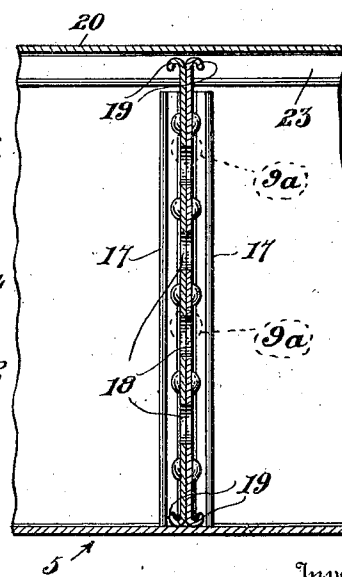


FIG. 3.



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FIG. 4.

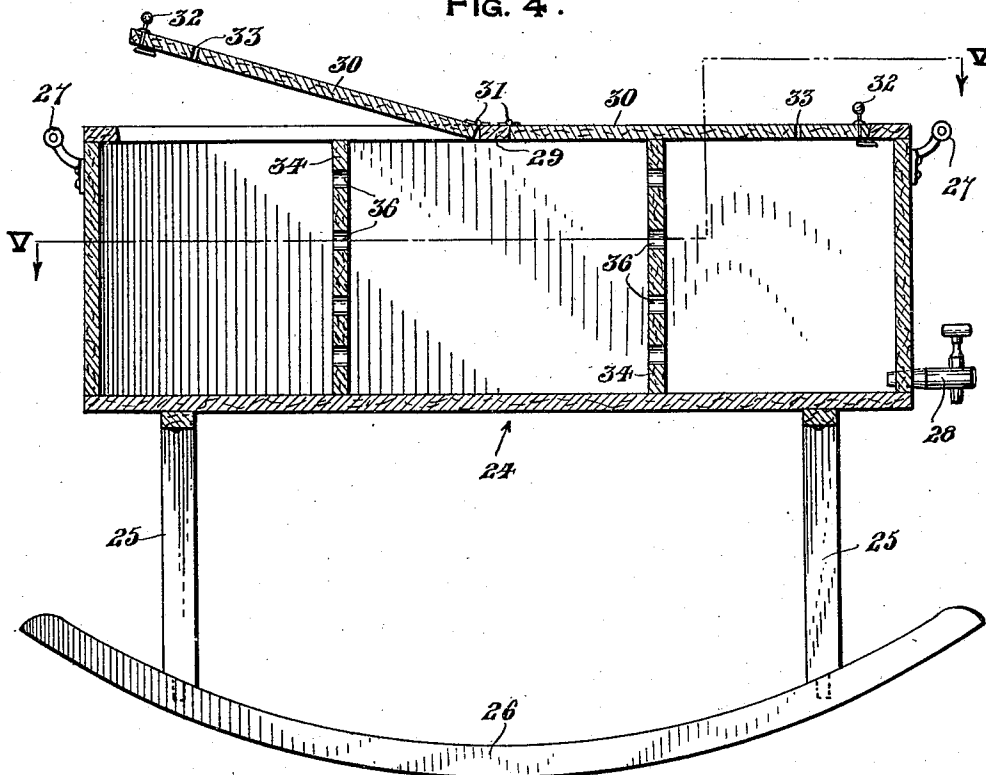
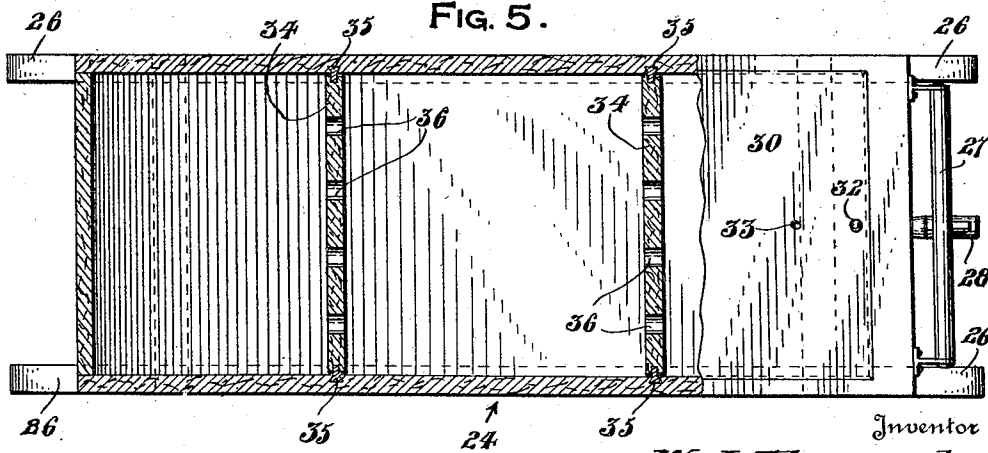


FIG. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM J. TRESNAK, OF LAKE WORTH, FLORIDA.

BUTTER CHURN.

Application filed March 6, 1923. Serial No. 623,143.

To all whom it may concern:

Be it known that I, WILLIAM J. TRESNAK, a citizen of the United States of America, residing at Lake Worth, in the county of Palm Beach and State of Florida, have invented certain new and useful Improvements in Butter Churns, of which the following is a specification.

This invention relates to new and useful improvements in butter churns.

An important object of the invention is to provide a churn that may be readily disassembled to allow for properly cleaning the same.

A further object of the invention is to provide a churn of the above mentioned character that is especially adapted for household use although not limited to such adaptation.

A further object of the invention is to provide a churn that will perform the work required thereof by merely supplying a rocking movement to the device.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a horizontal sectional view taken on line I—I of Fig. 2 and shows one form of a churn embodying this invention.

Figure 2 is a horizontal sectional view of the churn shown in Fig. 1.

Figure 3 is a fragmentary horizontal sectional view taken on line III—III of Fig. 2.

Figure 4 is a substantially vertical longitudinal sectional view of a second form embodying this invention, and

Figure 5 is a horizontal sectional view, partly top plan view, taken on lines V—V of Fig. 4.

In the drawings, wherein for the purpose of illustration is shown the preferred embodiments of this invention, the numeral 5 designates a metallic receptacle that is preferably constructed from aluminum or some other light metal, the top edge of the receptacle being formed with a bead 6, as best shown in Fig. 2. This receptacle is preferably constructed of such a size that it may be conveniently clamped to a rocker 7, as shown in dotted lines in Fig. 1. The supporting brackets that are provided for clamping this churn receptacle to the rocker

7 are each formed from a strip of metal 8 that is secured to one side wall of the receptacle by means of the rivets 9, the said strip of metal being bent to form the acute angle 10 which will provide a portion 11 that extends outwardly from the side wall of the receptacle at right angles thereto. This strip is further bent to form the substantially U-shaped portion 12 which is spaced from the portion 11, as best shown in Fig. 2. The lower end of this strip 8 is bent inwardly at 13 to engage for a short distance the under surface of the bottom wall of the receptacle for affording a better support for the same. The lower face of the portion 11 is roughened or knurled to provide a gripping surface 14 that is adapted to securely engage the top surface of the rocker 7 which is securely held thereagainst by means of the thumb screw 15 which adjustably engages the substantially U-shaped portion 12.

The receptacle 5 is further provided with rivets 9^a which are positioned in transverse alinement with the rivets 9 in the side wall opposite thereto. The heads of the rivets 9 and 9^a that are positioned within the receptacle 5 form guides for the transverse partitions 16. These partitions are formed by securing two plates face to face by means of rivets or the like, as best shown in Figs. 1 and 3. The vertical edges 17 diverge to form channelways for slidably engaging the heads of the rivets 9 and 9^a to allow for removably positioning these partitions within the receptacle. These partitions are further provided with apertures 18 for allowing the passage of the fluid being churned from one to the other of the chambers that are formed by the said partitions 16. The top and bottom edges of these partitions are rolled as at 19 to furnish beaded edges, as best shown in Figs. 2 and 3.

There is provided a cover plate 20 having a handle 21 secured thereto for affording means for handling the same. The outer edges of this cover plate 20 are substantially rolled to form a bead 22 which is adapted for engaging the bead 6 formed upon the upper edges of the receptacle 5 for retaining the cover in its proper position. There is further provided a skirt portion 23 that is carried by the edges of the cover plate and is adapted to be positioned within the receptacle 5 when the cover is in place thereupon.

Referring particularly to Figs. 4 and 5

there is shown a modified form of a churn that comprises a wooden receptacle 24 which is provided with leg members 25 having rockers 26 secured to their lower ends. 5 This receptacle is further provided with handle bars 27 that are secured to opposite ends and afford means for rocking the device. Associated with one end wall of the receptacle 24 is a drain faucet 28 that is 10 provided for draining the liquor from the said receptacle. A transverse bar 29 is secured to the top edges of the receptacle 24 and is positioned substantially centrally of the same. Cover plates 30 are pivotally con- 15 nected to this transverse bar 29 by means of hinges 31, the said cover plates being provided with bolt members 32 that are adapted for retaining them in their closed position. There is further provided apertures 33 that 20 are formed in the cover plate 30 for providing vents to allow the escape of gas from the receptacle 24.

This receptacle is divided into three compartments by the spaced partitions 34 that 25 are removably retained in their proper positions by means of the guide strips 35 which are carried by the side walls of the said receptacle. The partitions 34 are provided with apertures 36 which afford means for 30 communication between the several compartments formed in the receptacle 24.

The operation of the devices are as follows:—

In the form of the invention shown in 35 Figs. 1 to 3 inclusive the churn is properly clamped to a rocker of a chair after which the desired amount of milk or cream is placed within the receptacle 5 and the cover plate 20 positioned thereupon. The rocking 40 of the chair by a person sitting therein will cause the milk or cream to be agitated by passing through the openings 18 formed in the partitions 16 which will quickly convert the said substance into butter. The 45 operation of the device shown in Figs. 4 and 5 is very similar to the form of the invention just described with the exception of the actuating means for the churn, this means consisting of a person rocking the 50 churn upon the rockers 26 by grasping the handle bars 27.

It is to be understood that the forms of this invention herewith shown and de- 55 scribed are to be taken as preferred examples of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of invention or the scope of the subjoined claims.

60 Having thus described the invention, I claim:—

1. In a device of the character described, a receptacle, rivets secured to the side walls of said receptacle having heads positioned

within the latter, removable partitions guided 65 by said rivet heads for dividing the receptacle into compartments, restricted communication formed between said compartments, and means for supporting said receptacle.

2. In a device of the character described, 70 a receptacle, rivets secured to the side walls of said receptacle having heads positioned within the latter, removable partitions guided by said rivet heads for dividing the 75 receptacle into compartments, restricted communication formed between said compartments, and means for securing said receptacle to the rocker of the chair whereby the same will be elevated from the floor.

3. In a device of the character described, 80 a receptacle, rivets secured to the side walls of said receptacle having heads positioned within the latter, removable partitions for said receptacle, channel ways formed on 85 the edges of said partitions for slidably engaging said rivet heads, communication formed between said compartments, and means for supporting said receptacle.

4. In a device of the character described, 90 a receptacle, supporting brackets secured to one side wall of said receptacle by rivets having heads positioned within the receptacle, rivets having heads positioned within the 95 receptacle in transverse alinement with the bracket supporting rivet heads, removable partitions for said receptacle, channelways 100 formed on the edges of said partitions for slidably engaging the rivet heads positioned within the receptacle, restricted communication provided between said compartments, and means associated with said bracket 105 members for securing the device to the rocker of a chair.

5. In a device of the character described, 105 a receptacle, means removably positioned in said receptacle for creating a churning effect upon substance placed therein when the receptacle is properly agitated, brackets for securing said receptacle upon an agi- 110 tating support, and means associated with the walls of said receptacle for retaining both the brackets and removable means in their respective positions.

6. In a device of the character described, 115 a receptacle, partitions removably positioned in said receptacle for forming compartments therein, said partitions each comprising a pair of plates secured together on parallel 120 planes, the vertical edges of said plates being bent outwardly from their respective planes to form guideways, said plates having alined apertures for affording restricted communication between said compartments, and means associated with the walls of said 125 receptacle for engaging said guideways.

In testimony whereof I affix my signature.

WILLIAM J. TRESNAK.