S. J. PRATER.

CHURN ATTACHMENT.

APPLICATION FILED MAR. 16, 1912.

1,042,964. Patented Oct. 29, 1912.

Fig. 1.

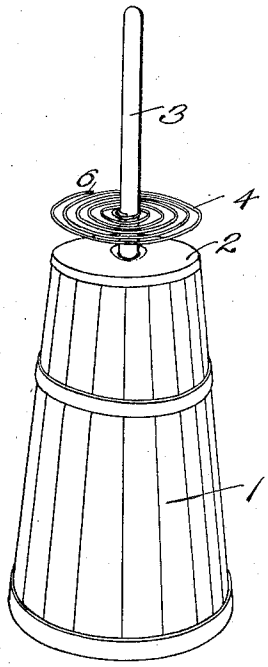


Fig. 3.

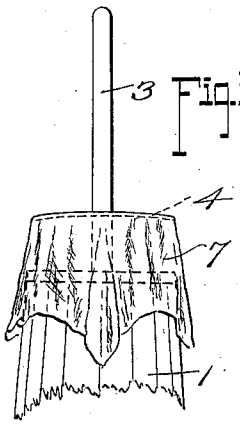


Fig. 4.

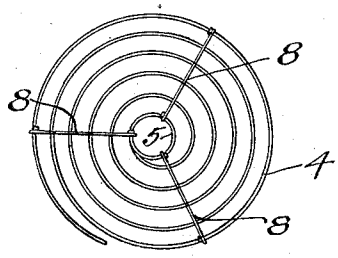


Fig. 2.

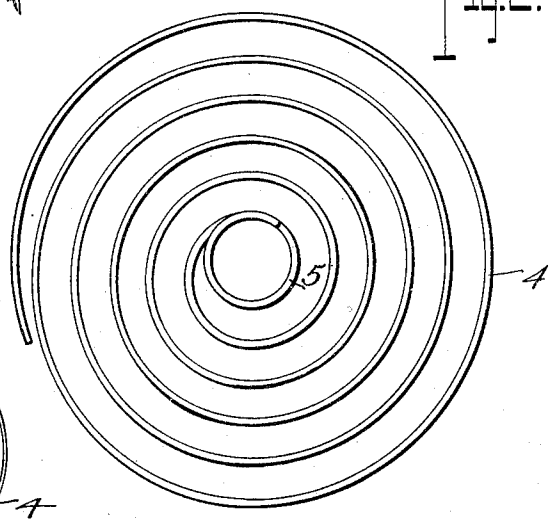
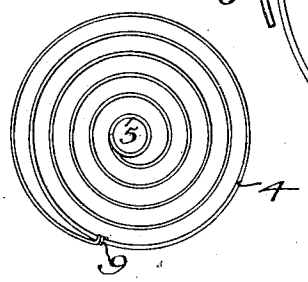


Fig. 5.



Witnesses

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CHURN ATTACHMENT.

1,042,964. Specification of Letters Patent. Patented Oct. 29, 1912.

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To all whom it may concern:

Be it known that I, SAMUEL J. PRATER, a citizen of the United States, residing at Clifton, in the county of Wayne and State of Tennessee, have invented certain new and useful Improvements in Churn Attachments, of which the following is a specification.

The object of this invention broadly is to provide a novel form of attachment for churns of the reciprocating plunger type, the purpose of which is to agitate or prevent flies, or similar insects from alighting on the cover of the churn.

In the operation of churns of the class above mentioned, the dasher attached to the churn stick in its reciprocation in the liquid contained by the churn causes said liquid to spatter through the opening in the lid or cover and a certain amount of the buttery substance collects about said opening. Flies immediately gather on the cover and often even get into the churn by accident, and my object has been to design some means consisting of a vibratory member which may be readily attached to the churn stick and which, set in vibration by the operation of said stick, will effectually keep the flies from approaching the churn or lodging on its cover.

The simplicity and practicality of my device are its particularly advantageous features and, as will hereinafter more fully appear, it serves a dual function, which so far as I know has not been heretofore accomplished.

For a full understanding of the present invention, reference is to be had to the following description and the accompanying drawings, in which—

Figure 1 is a perspective view of a vertical reciprocating plunger churn with my invention applied thereto; Fig. 2 is an enlarged view of my attachment alone; and Fig. 3 is a detail view, showing the use of my attachment as a support for a covering which may be placed over the top of the churn. Fig. 4, is a modified view showing my attachment provided with radial connecting links. Fig. 5, is another modified form of the attachment, the outer extremity thereof being secured to one of the coils.

Throughout the following detail description and on the several figures of the drawings, similar parts are referred to by like reference characters.

Referring to the drawings, 1 designates the body of the conventional form of vertical reciprocating churns and 2 the cover therefor. The cover of said churn is provided with the usual opening centrally therethrough, through which the plunger rod, or stick 3 extends.

My attachment is adapted to be positioned on the handle or stick 3 at a suitable point adjacent the cover 2, as shown in Fig. 1 of the drawings, and said attachment comprises a vibratory member 4 spiral in form similar to a coiled spring loosely suspended on the handle. The member 4 comprises a plurality of spaced coils, the inner terminal of which forms a spring attaching ring 5 through which the stick 3 is adapted to be inserted. The ring 5 by reason of its resiliency permits the attachment to be securely positioned on the stick in proximity to the cover 2 of the churn, as will be obvious. The opposite terminal of the member 4, designated 6 in the drawings, is free and reciprocation of the plunger stick 3 will cause the coils of the member 4 to be set in vibration.

The result of the continued vibration will effectually prevent any flies from alighting on the cover, as hereinbefore stated. As an article of manufacture my attachment may be very cheaply made and it can be easily attached or removed from the churn stick, as will be understood from the foregoing.

When the churn is not in use or the operation thereof has ceased a cloth 7 may be laid over the member 4, as clearly shown in Fig. 3, and the top of the churn thus protected until the contents of the churn have been removed and it has been cleaned. The vibratory member 4 supports the covering 7 under these circumstances and prevents the latter from coming in contact with the cover of the churn.

It may be desirable under certain conditions to modify the construction of the vibratory member, such as is shown in Figs. 4 and 5, wherein said member may be provided with the connecting links 8 secured to the attaching ring 5 at one end and to the outer coil at their other end, or the outer free extremity alone of the member may be wrapped around the adjacent spiral, as shown at 9.

Having thus described the invention, what is claimed as new is:

1. In combination with a churn comprising a plunger having a handle adapted to be

reciprocated, and of a vibratory member cooperating with said handle and adapted to be vibrated by movement thereof, said member being free to vibrate throughout the reciprocatory movement of the plunger.

2. In combination with a churn comprising a cover having an opening therethrough, a plunger rod mounted in the churn and passing through the opening in said cover, of a vibratory member consisting of a series of coils, the inner terminal of said member forming a spring attaching ring for positioning said member on the rod aforesaid, the member aforesaid being adapted to be freely vibrated by reciprocation of the plunger rod.

3. In combination with a churn comprising a plunger adapted to be reciprocated therein, of a free vibratory member coöperating with said plunger and adapted to be vibrated by operation of the latter, and a covering adapted to be supported by said member when the plunger is at rest.

4. The combination with a churn comprising a plunger, of a loosely suspended vibratory member, the inner terminal of which forms a spring attaching ring adapted to frictionally hold said member on the plunger and permit of vertical adjustment of said member on the plunger aforesaid.

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

SAMUEL J. PRATER.

Witnesses:
A. A. Odle,
A. Hims.