

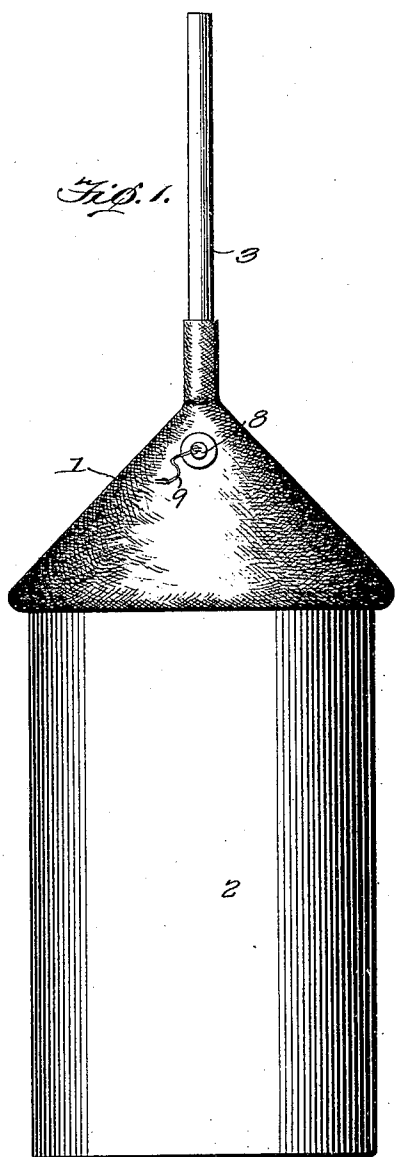
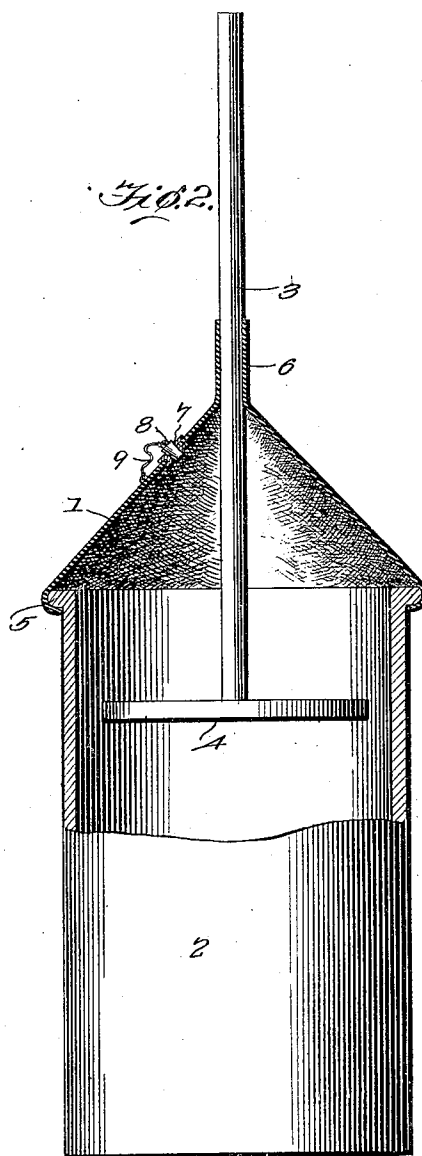
No. 691,223.

Patented Jan. 14, 1902.

I. H. WHITELY & J. R. YOCOM.
CHURN SHIELD.

(Application filed Sept. 30, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

ISAAC HENRY WHITELEY AND JOHN RILEY YOCOM, OF HOPE, ARKANSAS.

CHURN-SHIELD.

SPECIFICATION forming part of Letters Patent No. 691,223, dated January 14, 1902.

Application filed September 30, 1901. Serial No. 77,121. (No model.)

To all whom it may concern:

Be it known that we, ISAAC HENRY WHITELEY and JOHN RILEY YOCOM, citizens of the United States, residing at Hope, in the county of Hempstead and State of Arkansas, have invented a new and useful Churn-Shield, of which the following is a specification.

The invention relates to a shield for churns.

The object of the present invention is to provide a simple, inexpensive, and efficient device adapted to be readily applied to a churn-body and the stem of a vertically-movable dasher and capable of effectually preventing the contents of the churn-body from splashing out of the same and of excluding dust, insects, and the like from the interior of the churn-body.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a churn provided with a shield constructed in accordance with this invention. Fig. 2 is a partial vertical sectional view of the same.

Like numerals of reference designate corresponding parts in both figures of the drawings.

1 designates a churn-shield constructed of suitable material, preferably rubber, and connected at its bottom to the body 2 of the churn and at its top to the stem 3 of the dasher 4. The shield which constitutes a cover for the churn-body and which is adapted to yield to the vertical reciprocation of the dasher is designed to prevent the contents of the churn-body from splashing out of the same and also to exclude insects, dust, and other matter from the churn-body. The device preferably tapers from the bottom to the top, as illustrated in the accompanying drawings; but it may be of any other desired configuration and it is provided at its bottom or base with an inwardly-extending flange or contracted portion 4, adapted to engage an annular bead or flange 5, formed on the exterior of the churn-body at the top thereof, whereby the shield is firmly secured to the churn-body and is prevented from becoming accidentally disconnected therefrom by the

vertical reciprocation of the dasher. The elastic material of which the shield is constructed permits the device to be readily stretched over the top of the churn-body and engaged with the flange or bead of the same.

The top of the shield is provided with an upwardly-extending contracted portion or sleeve which is stretched over the stem of the dasher and which frictionally engages the same with sufficient force to hold it securely at any adjustment. The elastic stem-engaging sleeve 6 may be of any length, and it is adapted to be readily placed on and removed from the stem of the dasher. When the dasher is reciprocated vertically to operate the churn, it carries with it the upper portion of the shield, which may be made of any length to suit the sides of the churn and which will permit the dasher to be readily adjusted to position the same properly with relation to the contents of the churn-body.

The shield is provided with an aperture or vent 7, which may be closed by a plug 8, preferably connected with the exterior of the shield by a short elastic connection 9, which prevents the plug from becoming lost. When the plug is removed, the aperture or vent will permit the passage of air into and from the churn and enable the dasher to be moved vertically without any material resistance from the shield.

It will be seen that the device is exceedingly simple and inexpensive in construction, that it is adapted to be readily applied to a churn, and that it is capable of preventing the contents of a churn-body from splashing out of the same and of excluding insects, dust, and other matter from the churn-body. It will also be seen that the elastic shield firmly engages the churn-body and the stem of the dasher and that it will permit a ready adjustment of the parts to arrange the churn-dasher properly with relation to the contents of the churn-body.

What we claim is—

1. A churn-shield forming a yielding cover for a churn-body to prevent the contents of the latter from splashing out and to exclude dust and insects from the same, said shield having an elastic top and bottom to engage respectively a dasher-stem and a churn-body,

and being adapted to drop within the latter to permit a full stroke of the dasher, substantially as described.

2. A churn-shield consisting of a tapered
5 body portion having an elastic bottom adapted to be stretched over a churn-body, said tapered body portion being also adapted to drop within the latter to permit a full stroke of the dasher, and an elastic sleeve arranged at
10 the top of the shield for engaging the stem of the dasher, substantially as described.

3. A churn-shield consisting of a tapered body portion having an aperture or vent and provided at the bottom with an elastic inwardly-extending contracted portion or flange
15

for engaging the top of a churn-body, said tapered body portion being adapted to drop within the latter to permit a full stroke of the dasher, an elastic sleeve arranged at the top of the shield and adapted to engage the stem 20 of the dasher, and means for closing the aperture or vent, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ISAAC HENRY WHITELY.
JOHN RILEY YOCOM.

Witnesses:

JOHN S. GIBSON,
A. A. GIBSON.