

(No Model.)

H. A. WEBBER.
CLOSURE FOR CHURNS.

No. 411,846.

Patented Oct. 1, 1889.

Fig. 1.

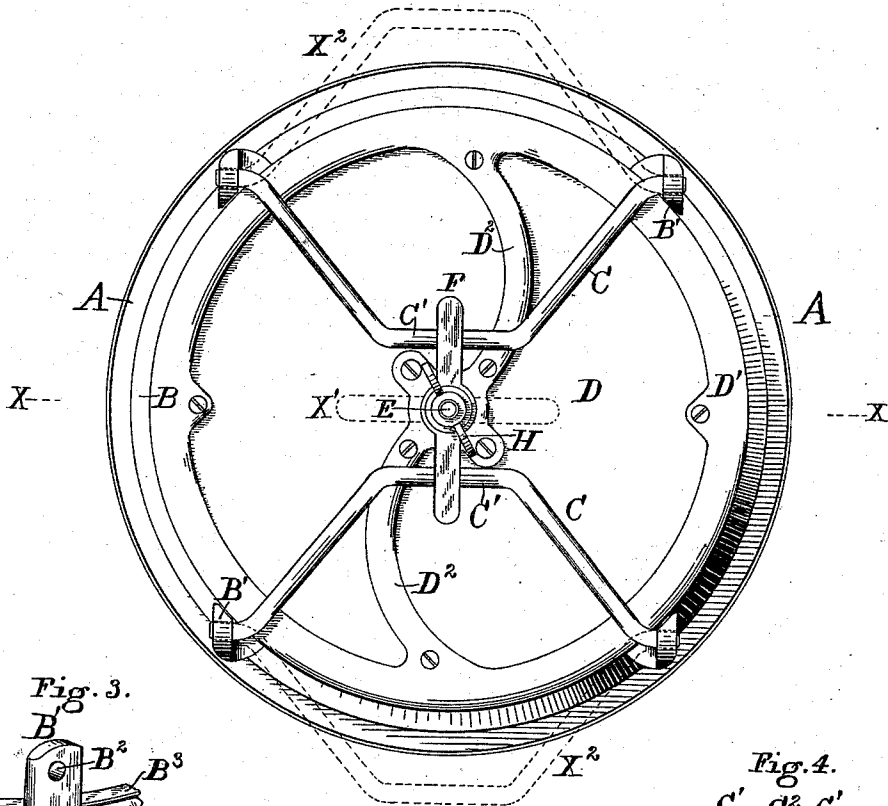


Fig. 3.

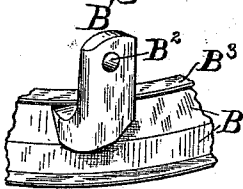


Fig. 4.

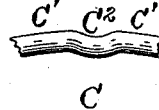
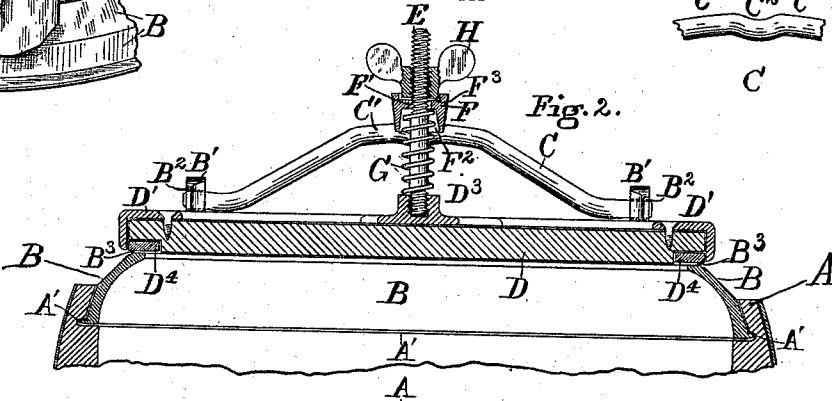


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY A. WEBBER, OF ROCKTON, ASSIGNOR TO SEARLE, BISHOP & CO., OF
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CLOSURE FOR CHURNS.

SPECIFICATION forming part of Letters Patent No. 411,846, dated October 1, 1889.

Application filed February 4, 1889. Serial No. 298,655. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. WEBBER, a citizen of the United States, residing at Rockton, in the county of Winnebago and State of Illinois, have invented a certain new and useful Improvement in Closures for Churns, of which the following is a specification.

This invention relates partly to the form and construction of the chine-ring head and partly to the manner in which the cover is secured to the same.

The invention consists of certain new and useful features of construction and combinations of parts, hereinafter described, and pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a plan view of a churn embodying my invention. Fig. 2 is a view of a vertical section of the upper portion of the churn and cover through the dotted line X-X of Fig. 1. Fig. 3 is an isometric view in detail of a portion of the chine-ring head of the churn and a lug projecting therefrom. Fig. 4 is a detailed view of the central portion of one of the cam-bails of the churn.

Like letters of reference indicate corresponding parts throughout the several views.

A is a barrel-churn, having a croze A' in the chine thereof.

B is a chine-ring head, preferably concavo-convex in form, seated in the croze A', the upper portion of the chine-ring head projecting above and extending inwardly from the open end of the churn A sufficiently to adapt the upper side thereof to receive and sustain the bail-lugs B', located thereon. I prefer to have the lugs B' integral with the chine-ring head B, and their bases overhang and rest upon the end of the churn A, which serves as a partial support for the same.

C is a cam-bail inserted through the openings B² in and pivoted to the lugs B'. The portions C' of the cam-bail C incline gradually upward, forming a species of double cam, until they terminate in the common notch, C². The function of the parts just described will be fully explained hereinafter.

D is a churn-cover, circular in form.

D' is a metallic casing inclosing the periphery and upper peripheral angle of the cover D.

D² is a transverse strengthening-brace, integral with the casing D' and extending across the center of the cover D. 55

D³ is a vertical boss integral with the brace D².

D⁴ is a ring, of cork or other suitable material, set into the lower side of the cover D, to engage with the upper end B³ of the chine-ring B and form a tight joint therewith. 60

E is a vertical bolt, threaded at both ends and tapped into the boss D³.

F is a cam-bail button adapted to engage with the notches C² in the bails C and lock them fast, thereby securing the cover D to the churn. The button F has a vertical hole F' therein to admit the bolt E, and is provided with a central vertical recess F² on the 65

under side thereof to admit the upper end of the spring G, which is coiled around the bolt E and prevents the button from dropping down when the bails C are unlocked. The upper side of the button F is also provided with a central vertical recess F³ to admit 75

the lower end of the thumb-nut H, which serves to take up the wear of the parts connected therewith, and, in conjunction with the spring G, prevents the inner portion of the button F from coming in contact with and wearing away the upper threaded portion of the bolt E. 80

The cam-button F, upon being turned transversely over the bails, engages with the cam portions C' of the same, and, slight force being applied thereto, slides into the notches C² and securely locks the bails, thereby retaining the cover on the churn. 85

This form of cam-bail and button-fastening will be found to be absolutely secure, and it is believed that it is the simplest and most easily operated of any churn-cover fastening in use. 90

Whenever it is desired to remove the cover from the churn, turn the cam-button and swing the bails outward, as indicated by the dotted lines X' X². 95

I claim—

1. In combination, a circular cover having a metallic casing inclosing the periphery and upper peripheral angle thereof, and a transverse strengthening-brace integral with said casing, extending across the center of the cover, and provided with a central vertical 100

boss on the upper side thereof, a vertical
bolt, threaded at both ends, tapped into said
boss, a thumb-nut, a spring coiled about said
bolt, a cam-bail button having a vertical hole
5 therein to admit said bolt, and being pro-
vided with a central vertical recess on the
under side thereof to admit the upper end of
said spring, and a central vertical recess on
the upper side of the same to receive the
10 thumb-nut, substantially as set forth.

2. In combination, a churn having a croze
in the chine thereof, a chine-ring head, con-
cavo-convex in form, seated in said croze,
projecting above and extending inwardly
15 from the open end of said churn sufficiently
to adapt the upper side thereof to receive and
sustain bail-lugs located thereon, cam-bails
pivoted to said lugs, a circular cover having
a metallic casing inclosing the periphery and

upper peripheral angle thereof, and a trans- 20
verse strengthening-brace integral with said
casing extending across the center of the
cover, and provided with a central vertical
boss on the upper side thereof, a vertical bolt,
threaded at both ends, tapped into said boss, 25
a thumb-nut, a cam-bail button having a ver-
tical hole therein to admit said bolt, and be-
ing provided with a central vertical recess on
the under side thereof to admit the upper
end of said spring, and a vertical recess on 30
the upper side of the same to receive the
thumb-nut, substantially as and for the pur-
pose set forth.

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