

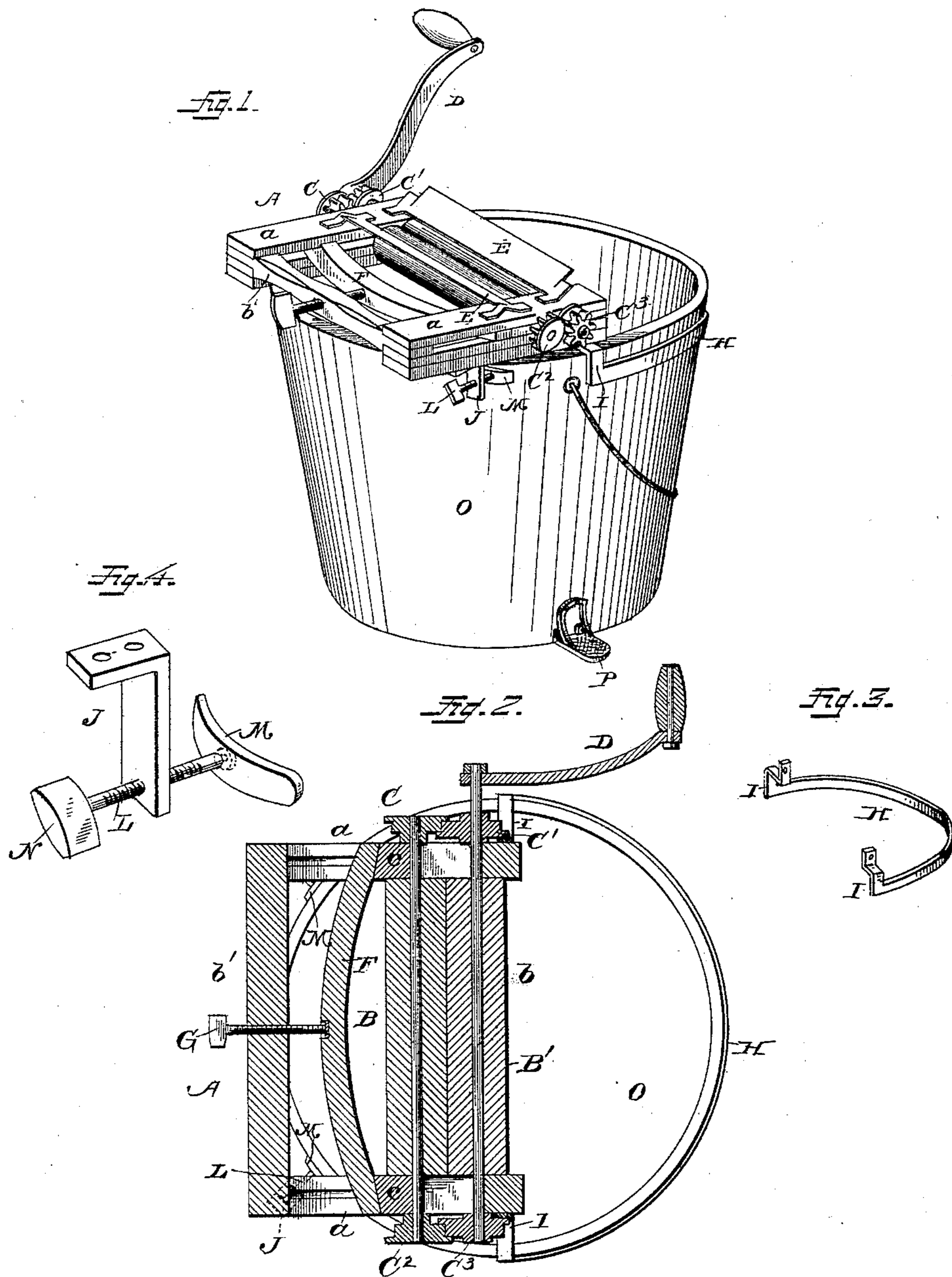
(No Model.)

L. SARGENT & C. CHASE.

MOP WRINGER.

No. 339,216.

Patented Apr. 6, 1886.



WITNESSES

*W. W. Mortimer*  
*Edward G. Diggers.*

INVENTORS

*Lumen Sargent*  
*Charles Chase*  
by *C. A. Snow & Co.*  
Attorneys

# UNITED STATES PATENT OFFICE.

LUMEN SARGENT AND CHARLES CHASE, OF UPTON, MAINE.

## MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 339,216, dated April 6, 1886.

Application filed April 20, 1885. Serial No. 162,836. (No model.)

*To all whom it may concern:*

Be it known that we, LUMEN SARGENT and CHARLES CHASE, citizens of the United States, residing at Upton, in the county of Oxford and State of Maine, have invented a new and useful Improvement in Mop-Wringer Attachments to Pails, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to mop-wringer attachments to pails, &c.; and it has for its object to provide means for connecting the wringer-frame to the pail and allow its detachment at will.

15 A further object of the invention is to provide suitable guides for the mop while the latter is being wrung.

With these ends in view the said invention consists in certain details of construction and novel combination of parts, as will be herein-  
20 after set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view showing our improvement applied in position to an ordinary pail. Fig. 2 is a horizontal section through the wringer-frame. Fig. 3 is a detail view of the frame  
25 or band which encircles the pail, and Fig. 4 is a detail view of one of the clamping-screws and its attachments.

30 Like letters are used to indicate corresponding parts in the several figures.

Referring to the drawings, A designates the wringer-frame, composed of suitable side bars, *a a*, connected by end bars, *b b'*. In one end  
35 of this frame, between the side bars, are arranged the wringer-rolls *B B'*, having their journals or bearings passed through the side bars and extended beyond the same to receive gear-wheels *C C' C<sup>2</sup> C<sup>3</sup>*. The journal or bearing of the roll *B'* is extended beyond its gear-wheel *C'*, to receive a crank, *D*.

*E E* designate flat plates set on an incline, and having their ends secured to the top face of the side bars, *a a*. The inclination of these  
45 plates is such that they nearly touch the wringer-rolls *B B'*, so that when the mop is being wrung these plates serve to guide the mop between the rolls, and also prevent the water from splashing over to one side. The  
50 side bars, *a a*, are slotted horizontally, to re-

ceive the reduced ends of a bowed wooden frame, *F*. A screw, *G*, works through the end bars, *b'*, and bears at its inner end against the central portion of the frame *F*, so as to press the latter forward. Since the ends of this  
55 frame *F* bear against the blocks *c c* on each side of the roll *B*, when this screw is operated, said roll is forced nearer to the other roll, *B'*. The peculiar bowed shape of the frame *F* serves as an efficient spring to hold the parts  
60 in their adjusted position. In this manner the distance between the rolls *B B'* can be regulated at will to press the mop with greater or less force.

*H* designates a semicircular frame having  
65 its ends formed with angular arms *I I*, which are secured to the outer faces of the side bars, *a a*, at one end. By the peculiar connection of the angle-arms to the wringer-frame the frame *H* is suspended below the latter on a  
70 horizontal line, so as to encircle the outer surface of the pail at the upper end, as shown.

To the under side of the side bars, *a a*, are secured brackets *J J*. These brackets are set obliquely or at an angle to the side bars, *a a*,  
75 and have their lower ends provided with threaded openings for the passage of screws *L L*. To the inner ends of the screws are swivelly connected clamping-blocks *M M*, which are made concavo-convex in form to fit the  
80 pail. The other ends of the screws are provided with operating-handles *N*.

It will be observed that by the peculiar set given to the brackets *J J* the screws *L L* work in a diagonal line inwardly against the  
95 pail on each side, and thus the wringer-frame will be held from tipping while the mop is being wrung.

*O* designates an ordinary pail or bucket, to which is attached the foot rest or tread *P*, said  
90 foot-rest receiving one of the feet of the operator, so as to hold the pail from moving when the wringer-rolls are operated.

The operation of our invention will be readily understood from the foregoing description,  
95 taken in connection with the annexed drawings. In applying the wringer to the pail the frame *A* rests upon the top edge of the pail, and the metallic frame *H* is passed around the outer upper edge thereof. When in this  
100

position, the clamping-screws are operated to cause the blocks to bear against the upper outer face of the pail, this action drawing the frame H more firmly around the latter until it is fitted securely in place. The wringer is then in position for use. When it is desired to wring the mop, it is inserted between the rolls, and the crank or handle operated to turn them to wring the mop in the usual manner. While working the rolls the operator should have one foot placed within the foot rest or tread, so as to hold the pail or bucket from moving.

It will be seen that our improvement may be applied to any ordinary-sized pail or bucket with ease and facility and detached therefrom in a short time. The bowed wooden frame serves as a spring for the rolls to keep them at the required distance apart, this distance being regulated at will by the thumb-screw before described. It will also be seen that the wringer-frame rests upon the top edge of the pail or bucket and supports itself, the clamping-screws and the frame H being employed merely to hold it from displacement. In this manner there is very little or no strain upon these supplemental parts, and thus there is little possibility of the machine working out of order.

We lay no special claim to the wringer-frame herein shown and described, but base our claim for improvement on the attaching means, by which the wringer may be applied and fitted securely to the pail or bucket, and the other details, as hereinafter mentioned.

Having thus described our invention, we claim—

1. The frame, wringer-rolls, and operating-crank, in combination with the inclined plates E, secured to the frame at the ends, each plate being arranged in an inclined direction above each roller, to prevent the water from splashing over, and also allow the guiding of the mop, as set forth.

2. The combination, with the pail, of the wringer-frame resting in a horizontal position upon the same, a curved frame or band provided with angular arms at its ends where it is secured to the wringer-frame and adapted to partially encircle the upper outer edge of the pail, and the clamping-blocks with operating-screws connected to the wringer-frame opposite to the curved band, as and for the purpose set forth.

3. The combination, with the pail, of the wringer-frame resting in a horizontal position upon the same, a curved frame or band secured at its end to the wringer-frame and adapted to partially encircle the upper outer edge of the pail, and the clamping-screws connected to the wringer-frame opposite to the curved band, for the purpose set forth.

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

LUMEN SARGENT.  
CHARLES CHASE.

Witnesses:

W. P. FOSTER,  
A. E. HERRICK.