

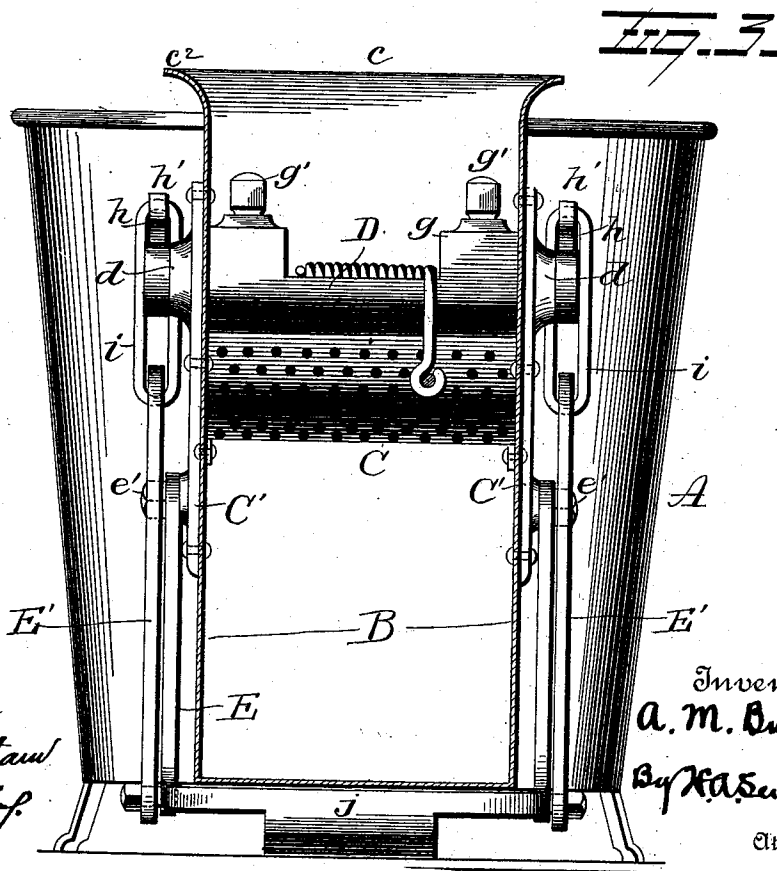
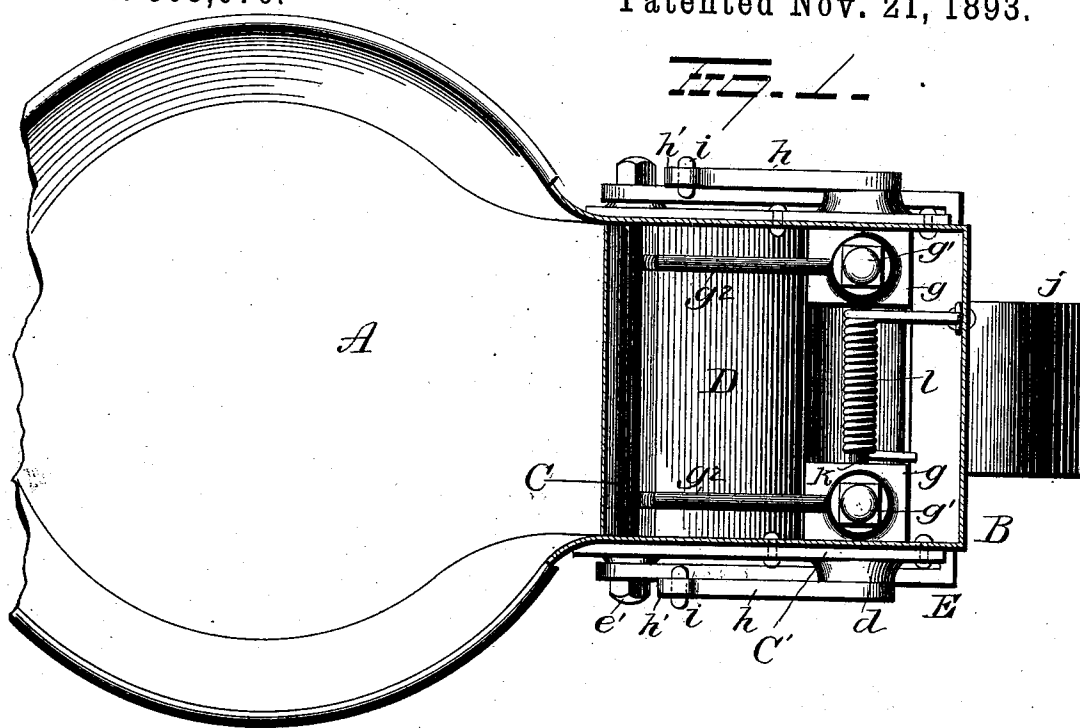
(No Model.)

A. M. BURNHAM.
MOP WRINGER.

3 Sheets—Sheet 1.

No. 509,070.

Patented Nov. 21, 1893.



Witnesses
E. M. Burnham
G. J. Downing

Inventor
A. M. Burnham
By *H. A. Seymour*
Attorney

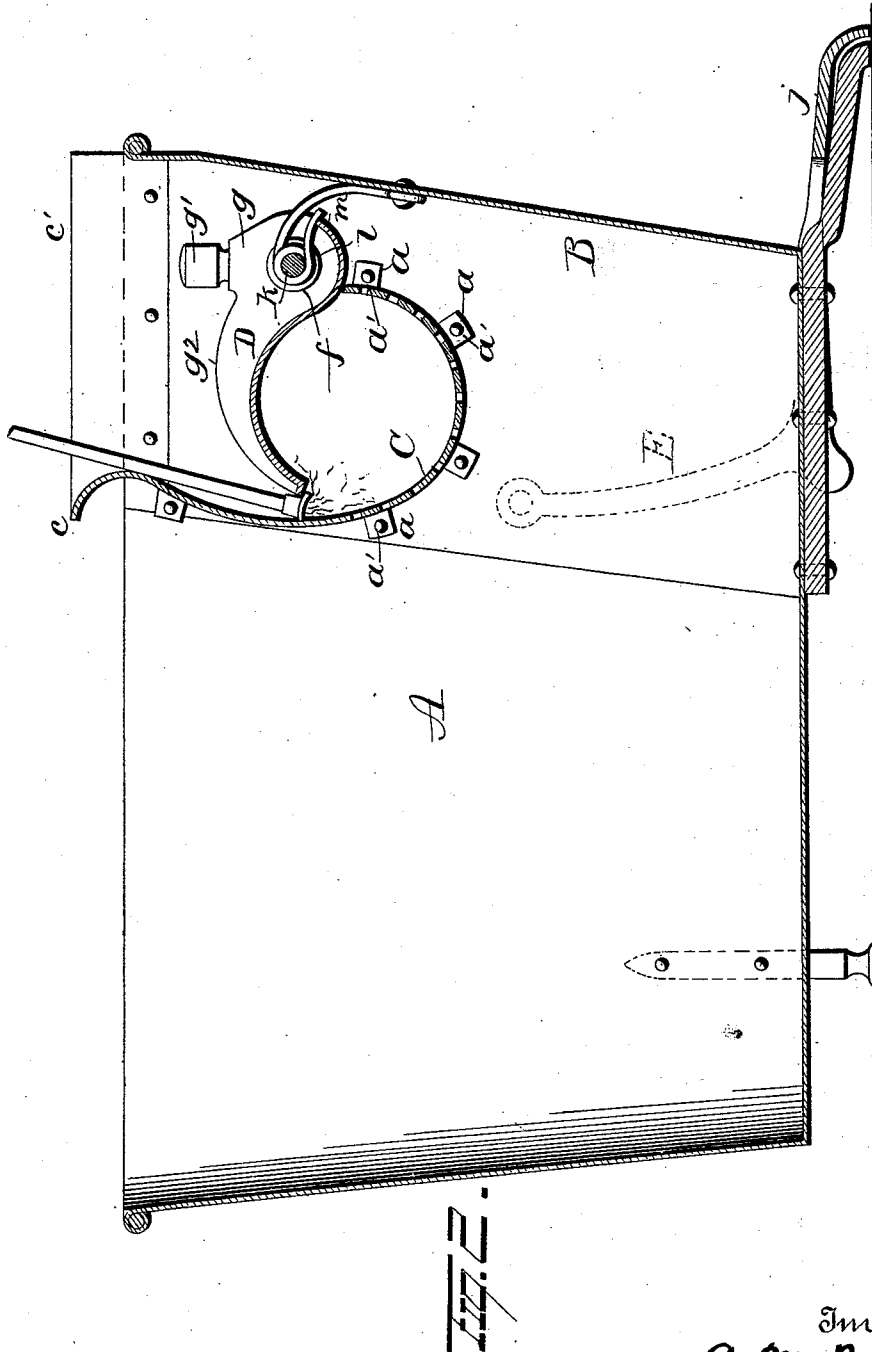
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3 Sheets—Sheet 2.

A. M. BURNHAM.
MOP WRINGER.

No. 509,070.

Patented Nov. 21, 1893.



Witnesses
E. H. Thompson
G. F. Downing

Inventor
A. M. Burnham
By K. A. Seymour
Attorney

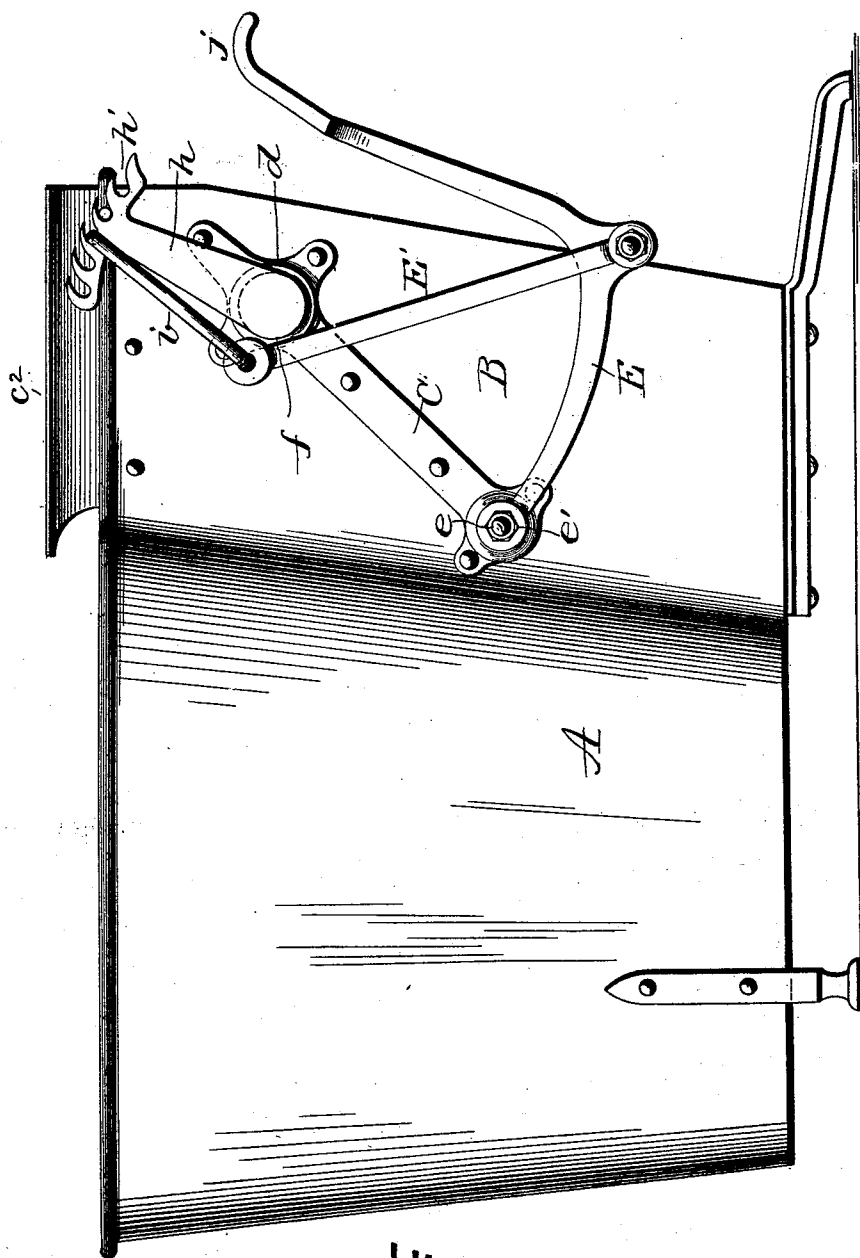
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3 Sheets—Sheet 3.

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MOP WRINGER.

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Witnesses
E. Nottingham
G. F. Downing.

Inventor
A. M. Burnham
By H. A. Seymour
Attorney

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ARTHUR M. BURNHAM, OF GARDINER, MAINE, ASSIGNOR TO LEONARD MOODY, OF BROOKLYN, NEW YORK, AND FRED HILDRETH, OF GARDINER, MAINE.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 509,070, dated November 21, 1893.

Application filed March 10, 1893. Serial No. 465,455. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR M. BURNHAM, residing at Gardiner, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Mop-Wringers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in mop wringers,—its object being to produce a mop wringer which shall be simple in construction, cheap to manufacture, easy to operate and effectual in the performance of its functions.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings: Figure 1 is a plan view, partly in section. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is an end view partly in section. Fig. 4 is a side view.

A represents a metallic pail having a nose portion B, to which latter my improvements are applied.

Located within the nose B is a perforated trough or mop holder C, which is preferably made of sheet iron bent into the proper shape, the metal composing it being provided with lugs or ears *a*, by means of which said trough or holder is secured to the sides of the nose portion B of the pail by means of rivets *a'*. The ears or lugs *a* may be integral with the trough C, or they may be secured thereto in any suitable manner. The upper end of the metal composing the trough is extended upwardly somewhat above the top of the nose B and bent inwardly toward the main body of the pail, as at *c*. Outwardly flaring guards *c'*, *c''* are riveted to diametrically opposite sides of the nose and constitute, together with the portion or guard *c*, a sort of hopper or tunnel to direct the mop properly to the trough C. Plates *C'* are secured to the sides of the nose B, each of said plates being provided at the upper end with a perforated boss or enlarge-

ment *d*, and at the lower ends of said plates, spindles *e* are located and project outwardly therefrom. Short shafts *f* are mounted in the perforated bosses or enlargements *d* and project through the walls of the nose B, and into bosses or enlargements *g* made on a compressor arm D, the latter being rigidly secured to said short shafts by means of set screws *g'*. The compressor arm D is made curved in a direction opposite to the curvature of the bottom of the trough C, and on its upper or outer face is provided with ribs *g''* to add strength thereto. Each short shaft *f* is provided with an arm *h* projecting at right angles thereto, and the upper end of each arm *h* is provided with a toothed bar *h'*, to which links *i* are adjustably attached. A yoke or treadle E is connected with the spindles *e*, and retained in position by means of suitable nuts *e'* on the ends of said spindles, said yoke or treadle being provided at its center with a foot piece *j*. The general form of the yoke or treadle E is L-shaped, and at the diametrically opposite bent portions of said treadle or yoke, rods *E'* are pivotally connected, the upper ends of said rods being pivotally connected with the links *i*. A small shaft or rod *k* is supported by the enlargements *g* of the compressor and extends from one to the other. About this shaft or rod, a spring *l* is coiled, one end of said spring being secured to the end wall of the nose B and the other end being adapted to rest on the edge *m* of the compressor. The point on the end of the compressor, on which the free end of the spring rests, being located outwardly from the pivotal support of said compressor, it will be seen that said spring tends to normally retain the compressor in its upper or open position so that a mop can be readily inserted into the trough C.

When it is desired to wring a mop, it is inserted into the trough C (being guided thereinto by the hopper formed by the guards *c*, *c'*, *c''*) and the end of the compressor made to rest on the head of the mop, as indicated in Fig. 2, carrying the mop and its head down together. The foot of the user is placed on the foot piece *j* and the treadle pressed down, causing the crank shaft which carries the com-

pressor to turn and the compressor to assume the position shown in Fig. 2,—thus compressing the mop and squeezing the water therefrom. By the employment of the toothed bars *h'* on the ends of the crank arms *h*, the device may be readily adjusted for large or small mops. By employing the links *i* connected with the rods *E'*, as shown in Fig. 4, the compressor will be permitted to move back far enough to permit the ready insertion of the mop into the trough C.

The device is very simple in construction, cheap to manufacture, easy to operate and effectual in the performance of its functions.

Various slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope and hence I do not wish to restrict myself to the precise details of construction herein shown and described, but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a mop wringer, the combination with a pail having an off-set nose portion, of a horizontally disposed trough located in said nose portion, a hopper or tunnel secured to the upper end of the nose for directing a mop into said trough, and a compressor arm, substantially as set forth.

2. In a mop wringer, the combination with a pail having an off-set nose portion, of a sheet metal trough secured in said nose portion and secured thereto, said trough being extended upwardly and curved to produce a guard, and a compressor arm, substantially as set forth.

3. In a mop wringer, the combination with a pail and a trough therein to receive a mop, of a spring actuated compressor arm mounted to oscillate over said trough, crank shafts connected with said compressor arm, a treadle, and devices connecting said treadle and crank shafts, substantially as set forth.

4. In a mop wringer, the combination with a pail and a trough therein to receive a mop, of a compressor arm having ribs on its outer face and enlargements at one end, crank shafts secured to said enlargements, a treadle, and devices connecting said treadle and crank shafts, substantially as set forth.

5. In a mop wringer, the combination with a pail having a nose portion, of plates secured to the sides of said nose portion and having

perforated enlargements at their upper ends, short shafts mounted in said enlargements and through the walls of the nose portion, a compressor secured to said shafts, a trough in said nose portion, crank arms projecting from said short shafts, a treadle and devices connecting said crank arms and treadle, substantially as set forth.

6. In a mop wringer, the combination with a pail having a nose portion, of a trough in said nose portion, a compressor in said nose portion, crank arms secured to said compressor, links adjustably connected with said crank arms, a treadle and rods connecting said treadle and links, substantially as set forth.

7. In a mop wringer, the combination with a pail having a nose portion, of a trough in said nose portion, a compressor in said nose portion, crank arms secured to said compressor, toothed bars carried at the free ends of said crank arms, links adjustably connected with said toothed bars and a treadle connected with said links, substantially as set forth.

8. In a mop wringer, the combination with a pail having a nose portion, of a trough in said nose portion, plates secured to the exterior of said nose portion, each of said plates having a perforated boss at one end and a spindle at the other end, crank shafts mounted in said perforated bosses, a compressor located within the nose and secured to said crank shafts, links connected with said crank shafts, a treadle connected with the spindles at the lower ends of said plates, and rods connecting said treadle with said links, substantially as set forth.

9. In a mop wringer, the combination with a pail having a nose portion, of a trough located in said nose portion, a compressor mounted in said nose portion, a rod carried by said compressor, a spring encircling said rod and secured at one end to the nose and at the other end adapted to bear on the compressor in rear of its pivotal support, and means for operating said compressor, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ARTHUR M. BURNHAM.

Witnesses:

O. B. CLASON,
S. E. JOHNSUN.