(No Model.) 2 Sheets—Sheet 1.

A. M. BURNHAM.

MOP WRINGER.

No. 454,203. Patented June 16, 1891.

Fig. 1.

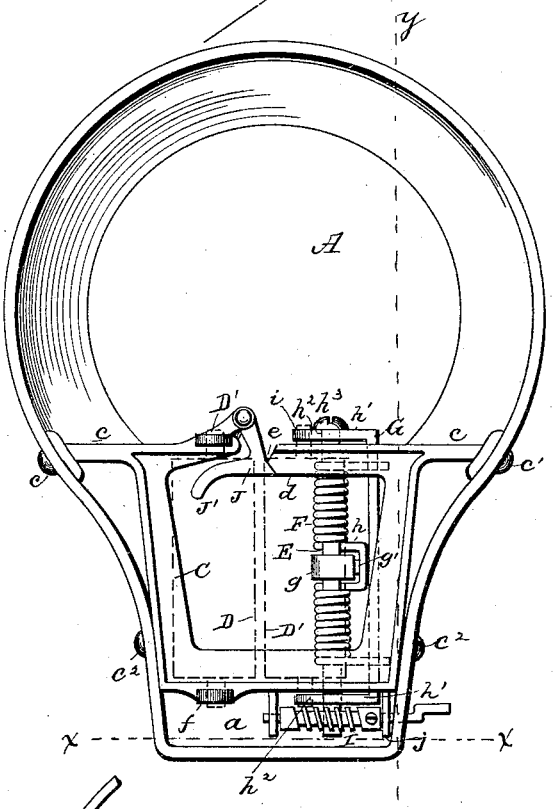
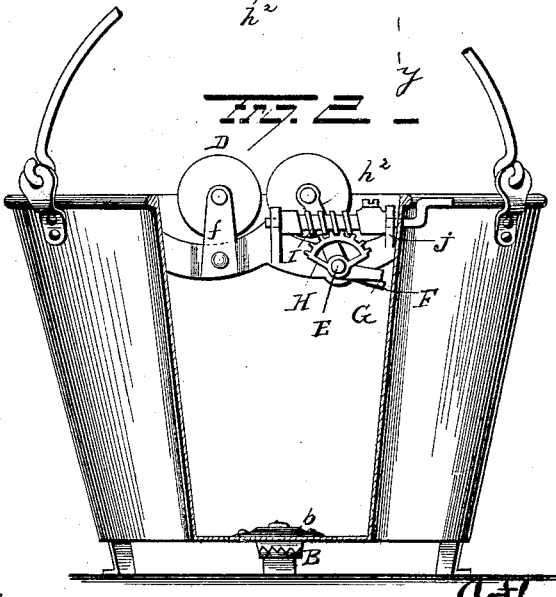


Fig. 2.



Witnesses
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Inventor
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H. A. Seymour

(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

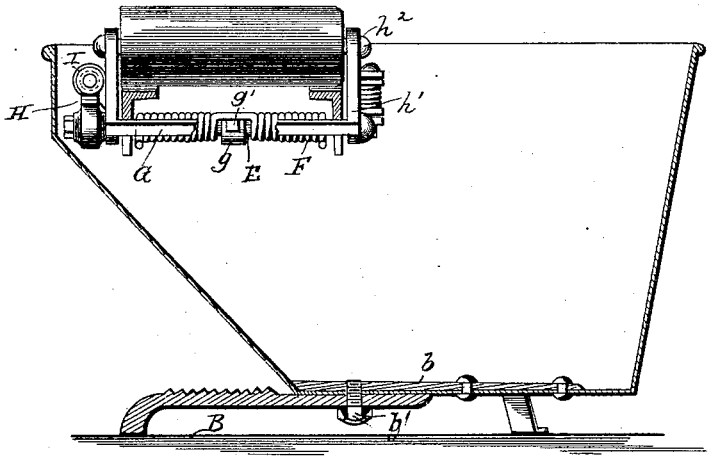
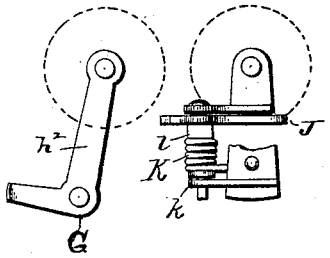


Fig. 4.



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UNITED STATES PATENT OFFICE.

ARTHUR M. BURNHAM, OF GARDINER, MAINE, ASSIGNOR TO THE BOSTON WRINGER COMPANY, OF MAINE.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 454,203, dated June 16, 1891.

Application filed June 12, 1890. Serial No. 355,247. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR M. BURNHAM, a citizen of 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, and has for its object to produce a mop-wringer having the mechanism located outside the main portion of the pail.

A further object is to construct the device in such manner that the wringing mechanism shall be located to one side of the main portion of the pail and at the upper edge of said pail.

A further object is to produce a mop-wringer which shall be simple and substantial in construction, effective in operation, and easy of manipulation.

With these objects 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 of my invention. Fig. 2 is a sectional view on the line $x\ x$ of Fig. 1. Fig. 3 is a sectional view on the line $y\ y$ of Fig. 1. Fig. 4 is a view in detail of a portion of the wringer.

A represents a pail having a spout or laterally-projecting portion a, or, in other words, the pail is made in the form of a coal-hod. Riveted to the bottom of the pail is a strip or plate b, and secured to the bottom of the pail and having its securing-bolt b' passing through the strip or plate b is a foot-piece B, which projects outwardly from the pail and is provided on its top face with serrations. Located over the portion a is a frame C, having arms c at one end secured to the pail by fastening devices c', said frame being secured to the portion a at or near its other end by fastening devices c^2.

The frame is provided with depending flanges d, cut away on one side to produce a passage e, which communicates with the body of the pail, as more fully explained farther on. Projecting upwardly from the ends of the frame C, to one side of the center thereof, are uprights f, in the upper ends of which a roller D is journaled. Journaled in suitable bearings in the flange d of the frame C, at the opposite side of the center thereof from the roller D, is a shaft E, having a collar g secured to the center thereof by means of a set-screw g'. A spring F is coiled about the shaft E and provided at its center with a loop h, adapted to bear against the set-screw g'. The free ends of the spring F are adapted to bear upon a bracket G, having arms h' h^2. The arms h^2 project at an angle from the arms h', and at the angle formed by the two arms perforations h^3 are made, through which a shaft E passes, whereby the bracket G is mounted on said shaft. At the upper ends of the arms h^2 of the bracket G bearings i are made for the reception of the journals of a roller D', which by means of the spring F will be maintained normally in proximity to the roller D and permitted by said spring to yield when a mop is drawn through these rollers, the tension of said spring being adjustable by means of the collar g.

Secured to one end of the shaft E is a toothed segment H, and mounted in arms j, projecting from the frame C, is a worm-shaft I, the worm of which is adapted to mesh with the toothed segment H, said shaft being extended beyond its bearings and provided with a crank or handle by which to operate it. By means of this construction, when it is desired to separate the rollers and decrease the tension of the spring it is simply necessary to turn the handle, whereupon the worm I will engage the segment H and cause the shaft E to turn, and thus permit said roller to move away from the roller D.

Projecting from the frame C in proximity to the inner bearing of the roller D are two ears k, in which a short shaft l is mounted. Fixed to said shaft l is an arm or gate J, having a handle J', by which to operate it, said arm or gate J being adapted to close the opening or passage in the frame C.

In order to maintain the gate J normally closed, a spring K is coiled about the short shaft l, being secured at one end thereto and

at the other end to the frame C. Thus it will be seen that when the mop is placed in the pail the handle of said mop may be passed through the opening in the frame, the gate J yielding to permit its passage and again closing automatically when the handle has passed through the opening. The mop can then be drawn through the rollers D D′. Should it be desired for any reason to again move the mop into the body of the pail, the handle may be moved through the opening in the frame by withdrawing the gate J by means of the handle J′.

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

1. The combination, with a pail or receptacle, of a roller journaled in fixed bearings, a roller journaled in a spring-actuated wringing bracket or frame, and means for regulating the spring-pressure upon said roller-bracket, substantially as set forth.

2. The combination, with a pail or receptacle, of a pair of rollers, a shaft, means for rocking the latter and holding it in position, and a bracket or frame carrying one of the rollers and mounted on the shaft, substantially as set forth.

3. The combination, with a pail or receptacle, of a pair of rollers, a shaft, means for rocking and securing said shaft, a bracket carrying one of the rollers loosely mounted on the shaft, and a spring yieldingly connecting the shaft and bracket, substantially as set forth.

4. The combination, with a pail or receptacle and a frame therein, of a pair of rollers, one journaled in fixed bearings in the frame, a shaft having a spring coiled thereon, a toothed segment on the shaft, a worm adapted to operate to rock the segment and shaft, and a swinging bracket loosely mounted on the shaft, connected yieldingly therewith, and having one of the rollers journaled in it, substantially as set forth.

5. The combination, with a pail, of a frame carried thereon, having an opening in one side, and a normally-closed yielding gate for closing said opening, substantially as set forth.

6. The combination, with a pail, of a frame carried thereon, having an opening in one side, of ears on the frame in proximity to said opening, a shaft carried by said ears, a spring encircling the shaft and secured at one end thereto and at the other end to the frame, and a gate carried by said shaft adapted to close said opening in the frame, substantially as set forth.

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

ARTHUR M. BURNHAM.

Witnesses:
HENRY FARRINGTON,
CHAS. H. LENNAN.