

No. 699,073.

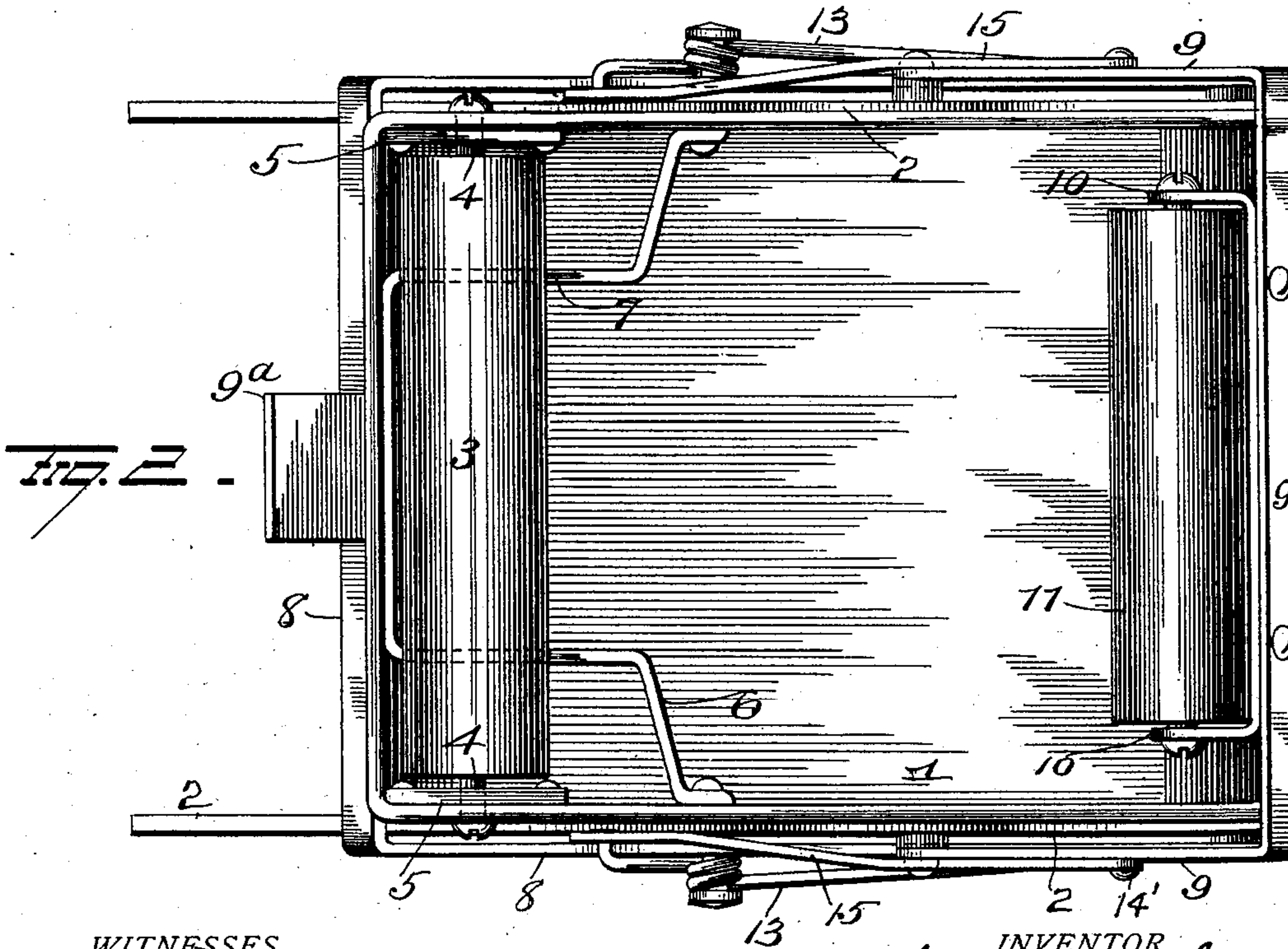
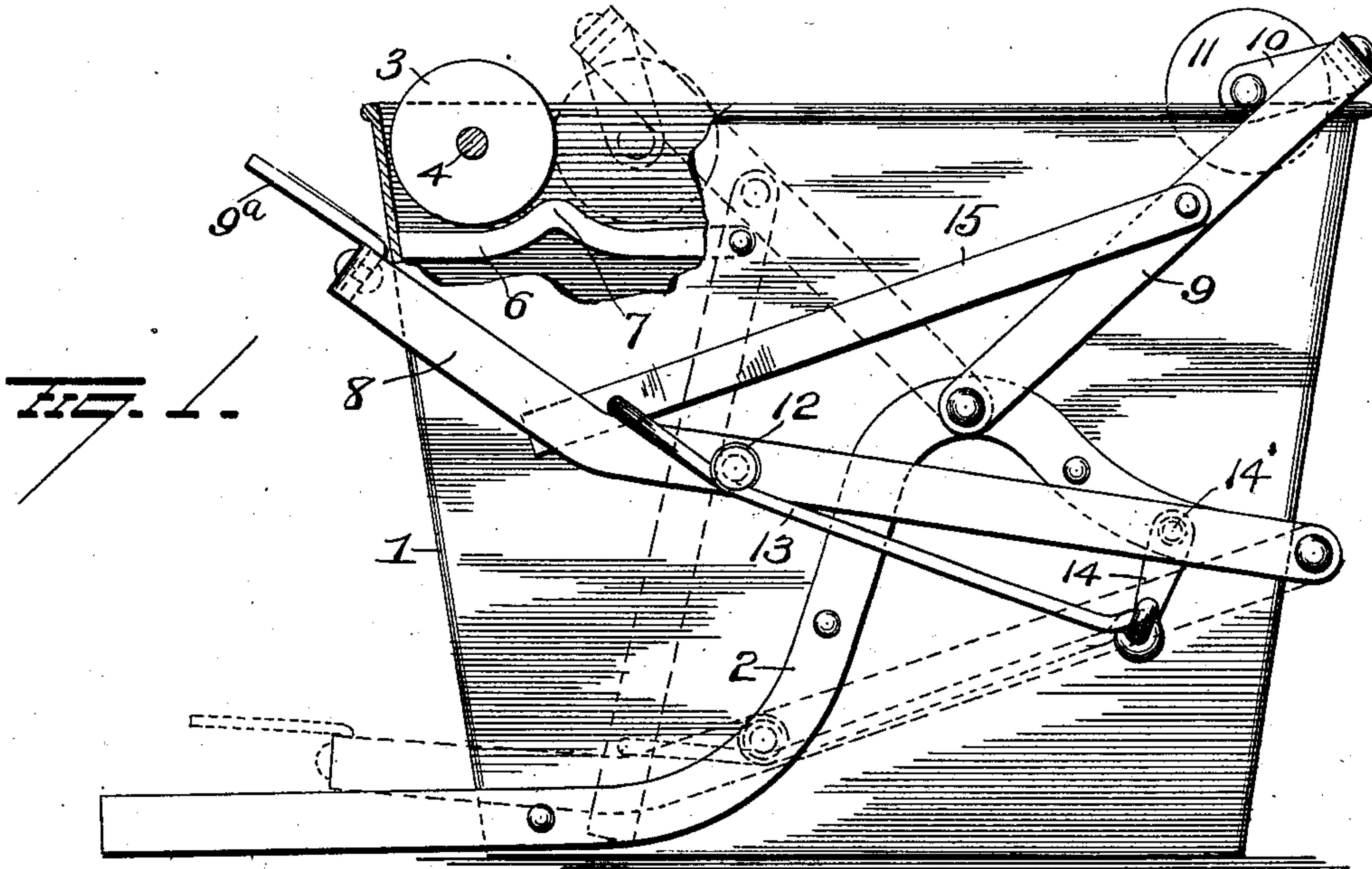
Patented Apr. 29, 1902.

A. M. BURNHAM.

MOP WRINGER.

(Application filed Dec. 23, 1901.)

(No Model.)



WITNESSES

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ARTHUR M. BURNHAM, OF GARDINER, MAINE.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 699,073, dated April 29, 1902.

Application filed December 23, 1901. Serial No. 86,961. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR M. BURNHAM, a resident 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, the object of the invention being to provide a device of this character with improved means for permitting a sufficient amount of elasticity or give to the pressure of a roller to permit a tangled or matted part of the mop to be drawn between rollers without injury.

A further object is to provide improvements of this character which will be strong and durable, comparatively cheap to manufacture, and yet neat and attractive in appearance and easy to operate.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation, partly in section, illustrating my improvements; and Fig. 2 is a plan view of the same.

1 represents a rectangular pail or bucket to which my improvements are connected, as will now be explained. On opposite sides of the pail metal strips 2 are secured by rivets or other means, and are preferably of the shape shown to permit the attachment of the operating mechanism, and extend forward beyond the pail to prevent upsetting when pressure is applied to the treadle.

In the pail, at its upper forward end, a roller 3 is mounted to revolve, its trunnions 4 at each end being supported in suitable plates 5, riveted to the inner face of the pail, and below this roller 3 and secured between its ends to the forward end of the pail is a guide 6 for the mop. This guide 6 comprises a strip of metal bent at two points between its ends and having its central flat portion secured to the pail, and the respective ends project parallel forward toward the center of the pail

and are bent upward slightly just beyond the outer face of roller 4, as shown at 7, and then extend outward and are bent at an angle and diverge to and are secured to the sides of the pail. A rectangular treadle 8 is pivoted at its respective ends to the ends of strips 2 and extends around the forward end of the pail and is provided with a plate or step 9^a to receive the operator's foot to depress the treadle when wringing a mop.

The roller-frame 9 comprises a metal strip bent at two points between its ends, forming a horizontal intermediate portion disposed over the top of the pail and to which a roller-bracket 10 is secured and carries a roller 11, and the respective ends of the frame 9 are pivotally connected to arched portions of the strips 2.

The respective side members of the treadle 8 are provided between their ends with studs 12, on which the coiled central portion of springs 13 are mounted, one end of the spring projecting in one direction and attached to a hook-shaped lug 14, pivotally connected to the strip 2 by means of a pivot-pin 14'. The other end of said spring extends in the opposite direction and is bent at right angles and projects into a hole in a link 15, the other end of which latter is pivotally connected to the roller-frame 9. It is of course to be understood, as clearly shown on the drawings, that a spring 13 and its connecting parts are provided on both sides of the pail precisely like that above described in connection with one side.

The operation of my improvements is as follows: When the operator desires to wring the water from the mop, he places the mop in the pail and the guide 6 serves to direct the same against roller 3. He then presses down with his foot the treadle 8, which operation, through the medium of springs 13 and links 15, forces roller-frame 9 forward and presses the mop between the rollers 3 and 11, so that when the mop is drawn from between the tightly-pressed rollers all water will be squeezed therefrom, and when the operator releases the treadle springs 13, bearing at one end against lugs 14, will return the treadle and roller-frame 9 to their former positions. It will also be seen that owing to the elastic spring connection between links

15 and treadle 8 that should the mop be tangled or matted this yielding or elastic connection will permit the tangled or matted portion of the mop to be drawn between the rollers without injury.

Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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 and a roller mounted therein in stationary bearings, of a movable roller-frame, a roller mounted in said movable frame, a treadle, a link connected at one end to the movable roller-frame, and a spring connecting the other end of the link with the treadle and normally bearing on the treadle at its juncture with the link to constitute a stop for the latter.

2. In a mop-wringer, the combination with a pail and a stationary roller revolvably mounted therein, of a movable roller-frame carrying a roller, a treadle, a link connected at one end to the roller-frame, a spring coiled between its ends on a pintle carried by the treadle, a lug connected with the pail supporting one end of said spring, and the other end of said spring connected to the link.

3. In a mop-wringer, the combination with an angular pail, of strips secured thereto and projecting forwardly beyond the same, a stationary roller in the forward end of the pail, a roller-frame pivoted on said strips and carrying a roller, a treadle pivoted to said strips, a lug on one of the strips, a pintle on the treadle, a link connected at one end to the roller-frame, and a spring coiled between its ends on said pintle and having one end supported by the lug and the other end connected to the link.

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

ARTHUR M. BURNHAM.

Witnesses:

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MABEL COBB.