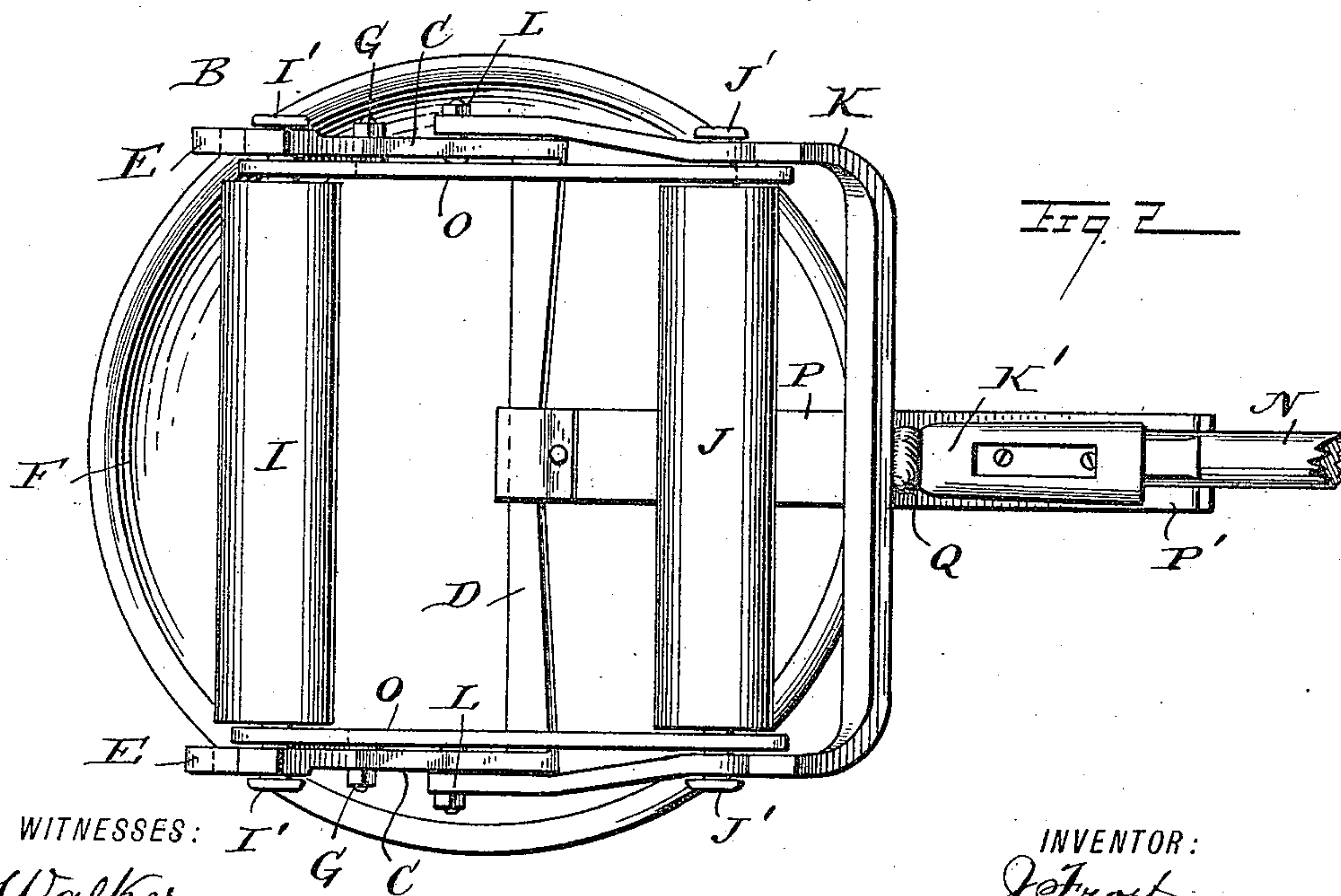
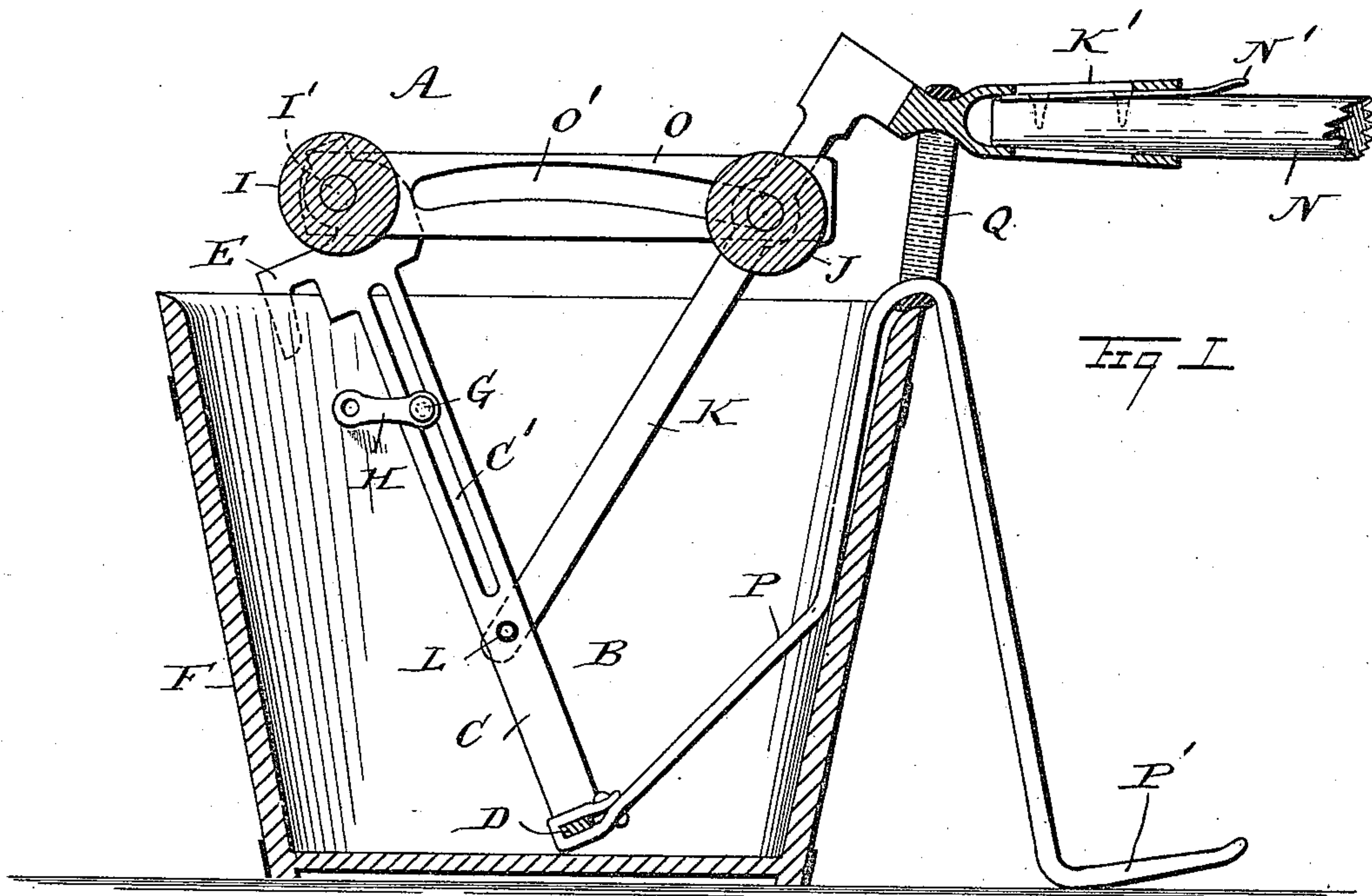


(Model.)

J. FROST.  
MOP WRINGER.

No. 442,773.

Patented Dec. 16. 1890.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN FROST, OF OMAHA, NEBRASKA, ASSIGNOR TO HIMSELF AND GEORGE W. LININGER, OF SAME PLACE.

## MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 442,773, dated December 16, 1890.

Application filed July 2, 1890. Serial No. 357,543. (Model.)

*To all whom it may concern:*

Be it known that I, JOHN FROST, of Omaha, in the county of Douglas and State of Nebraska, have invented a new and Improved Mop-Wringer, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved mop-wringer, which is simple and durable in construction, very effective in operation, and serves for easily wringing the mop without soiling the operator's hands or upsetting the bucket or pail.

The invention consists in certain parts and details and combinations of the same, as will be described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional side elevation of the improvement as applied, and Fig. 2 is a plan view of the same.

The improved mop-wringer A is provided with a frame B, having two standards C C connected with each other near their lower ends by a cross-bar D. Near the upper ends of the standards C C are formed or secured the hooks E, adapted to engage the top rim of the pail F, in which the mop-wringer A is to be set, as is plainly shown in Figs. 1 and 2.

In order to hold the frame B in place, the standards C are provided with slots C', in which are held adjustable bolts G, each carrying an arm H, adapted to press against the inside of the pail in line with the hook E, extending from the outside of the pail. By moving the bolts G up or down in the slots C' the arms can be swung into proper position—that is, until they rest at their outer ends against the inside of the pail.

In the upper ends of the standards C is journaled a roller I, made of rubber, wood, or other suitable material, and opposite this roller I is located a second roller J, mounted to turn in suitable bearings formed in a U-shaped frame K, pivoted at its ends at L to the outsides of the standards C C, as is plainly shown in Fig. 1. The U-shaped frame K is provided in its middle with an outwardly-extending socket K', in which is adapted to

pass the end of a handle N, carrying a spring N', adapted to engage the inside of the socket, so as to hold the handle in place. Other suitable means may be employed for fastening the handle to the socket.

The trunnions J' of the roller J pass through slots O', formed in arms O, pivoted to the trunnions I' of the roller I, so that when the frame K is swung by means of the handle N the said trunnions J' pass forward and backward in the slots O' of the arms O.

To the cross-bar D is secured an arm P, which extends upward along the inside of the pail, bends over the top rim of the same, and then extends downward to be provided near its lower end with a foot-piece P', adapted to be engaged by the operator's foot when using the mop-wringer. The upper end of the arm P is connected by a spring Q with the socket K' of the frame K, the said spring having the tendency to hold the frame K in an outermost position—that is, the roller J away from the roller I. As shown in the drawings, the spring K is made of a rubber band passing over the socket K' and under the bent part of the arm P.

The device is used as follows: The frame B is placed in the pail F, with the hooks E engaging the top rim of the pail, as is plainly shown in Fig. 1. The arms H are then adjusted so as to engage the inside of the pail, thereby firmly holding the frame in position. The operator places one foot in the foot-piece P' of the arm P and then takes hold of the handle N, at the same time placing the mop to be wrung between the two open rollers I and J. The operator then moves the handle N upward, so that the frame K, with its roller J, swings toward the roller I, thereby pressing the mop between the two rollers. The operator by having hold of the mop-handle draws the latter upward, so that the mop is wrung dry in passing outward between the rollers I and J.

It will be seen that the operator can conveniently regulate the pressure of the two rollers I and J on the mop by pressing on the handle N to whatever degree is desired. As soon as the operator releases the pressure on the handle N, the spring Q draws the frame K back to its former position—that is, the



roller J moves away from the roller I to permit another insertion of the mop between the said rollers whenever desired.

It will be seen that by this construction the device is firmly held in place, and at the same time the pail is not liable to be upset, as is so frequently the case with mop-wringers as heretofore constructed.

Having thus 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 frame provided with hooks adapted to engage the pail to hold the said frame in place, of a roller journaled in the upper end of the said frame, a U-shaped frame pivoted to the said frame and adapted to be moved toward and from the same, a second roller journaled in the said U-shaped frame opposite the first-named roller, and slotted arms pivoted on the first-named roller and having their slots engaged by the trunnions of the second roller, substantially as shown and described.

2. In a mop-wringer, the combination, with a frame provided with hooks adapted to engage the pail, and adjustable arms held on the said frame and adapted to engage the inside of the pail, of a roller journaled in the upper end of the said frame, a U-shaped frame pivoted to the said frame and adapted to be moved toward and from the same, a second roller journaled in the said U-shaped frame opposite the first-named roller, and slotted arms pivoted on the trunnions of the first-named roller and engaged in their slots by the trunnion of the second roller, substantially as shown and described.

3. In a mop-wringer, the combination, with a frame provided with hooks adapted to engage the pail to hold the said frame in place, of a roller journaled in the upper end of the said frame, a U-shaped frame pivoted to the said frame and adapted to be moved toward and from the same, a second roller journaled in the said U shaped frame opposite the first-named roller, slotted arms pivoted on the first-

named roller and having slots engaged by the trunnions of the second roller, and a handle connected with the middle of the said U-shaped frame and serving to move the same, substantially as shown and described.

4. In a mop-wringer, the combination, with a frame provided with hooks adapted to engage the pail to hold the said frame in place, of a roller journaled in the upper end of the said frame, a U-shaped frame pivoted to the said frame and adapted to be moved toward and from the same, a second roller journaled in the said U-shaped frame opposite the first-named roller, slotted arms pivoted on the first-named roller and having slots engaged by the trunnions of the second roller, a handle connected with the middle of the said U-shaped frame and serving to move the same, and an arm having a foot-piece and connected with the said frame and adapted to engage the top rim of the pail, substantially as shown and described.

5. In a mop-wringer, the combination, with a frame provided with hooks adapted to engage the pail to hold the said frame in place, of a roller journaled in the upper end of the said frame, a U-shaped frame pivoted to the said frame and adapted to be moved toward and from the same, a second roller journaled in the said U-shaped frame opposite the first-named roller, slotted arms pivoted on the first-named roller and having slots engaged by the trunnions of the second roller, a handle connected with the middle of the said U-shaped frame and serving to move the same, an arm having a foot-piece and connected with the said frame and adapted to engage the top rim of the pail, and a spring connecting the said arm with the said U-shaped frame to hold the latter in an open position, substantially as shown and described.

JOHN FROST.

Witnesses:

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