

No. 694,517.

Patented Mar. 4, 1902.

A. H. ALLISON.
MOP WRINGER.

(Application filed Apr. 24, 1901.)

(No Model.)

Fig. 1.

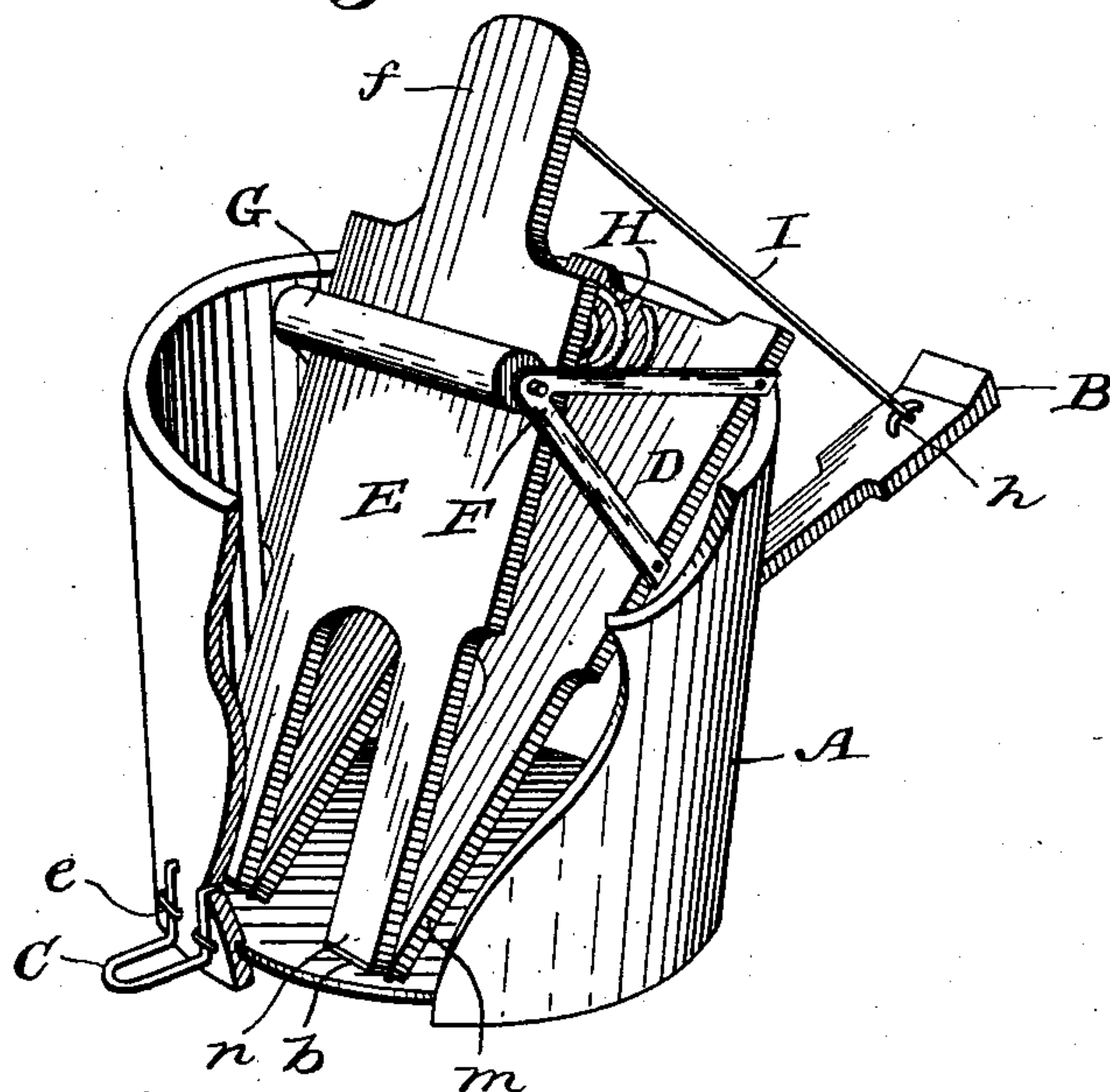
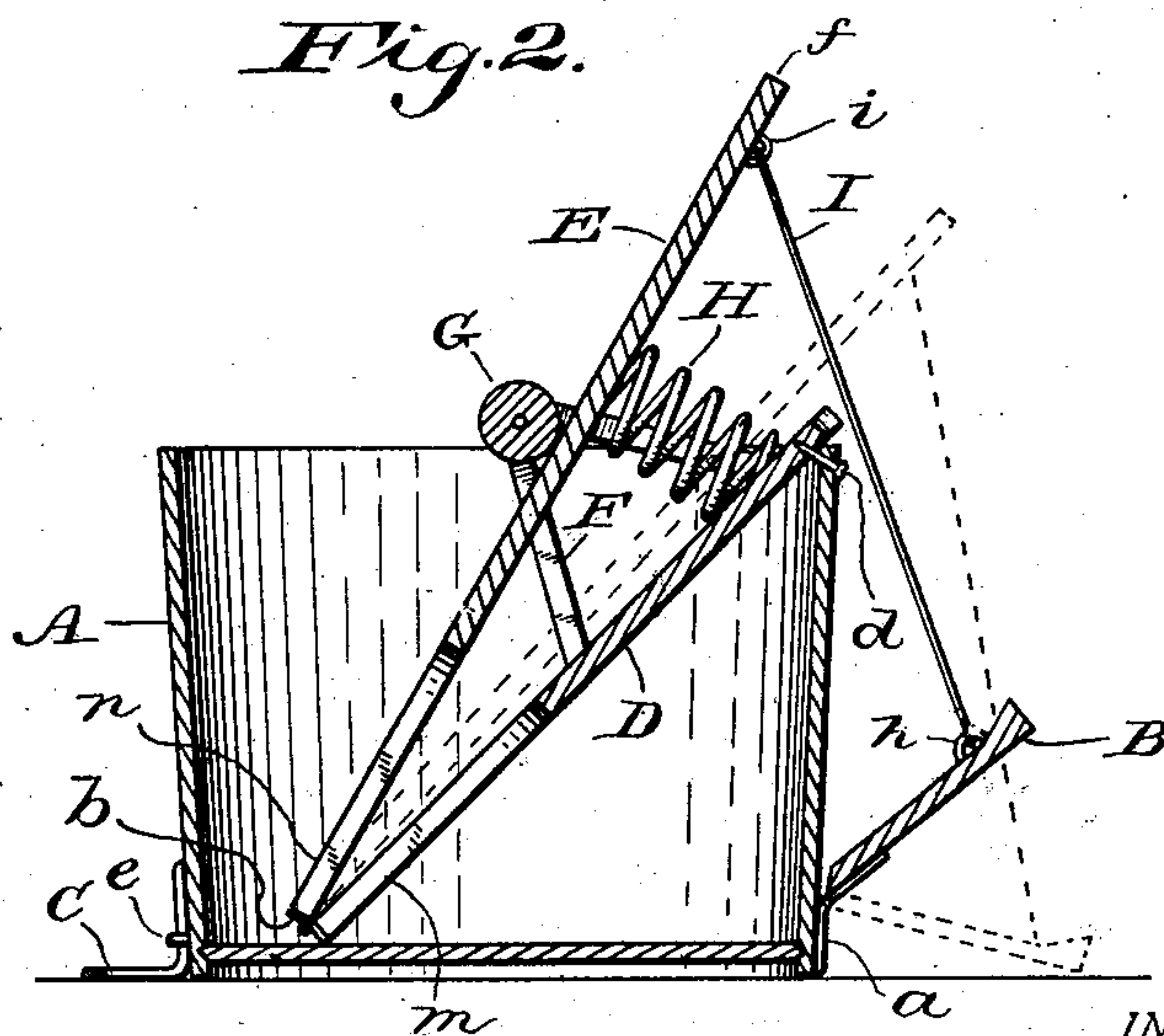


Fig. 2.



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MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 694,517, dated March 4, 1902.

Application filed April 24, 1901. Serial No. 57,223. (No model.)

To all whom it may concern:

Be it known that I, ASA H. ALLISON, a citizen of the United States, residing at New Vienna, in the county of Clinton and State of Ohio, have invented certain new and useful Improvements in Mop-Wringers; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to devices that are connected to a pail or similar vessel for squeezing out the water from mops when scrubbing or mopping floors, the object being to provide a cheap, durable, and quick-acting mop-wringer.

The invention consists in the novel parts and in the combination and arrangement of parts, as hereinafter fully described, and pointed out in the claims.

Referring to the drawings, in which similar reference-letters indicate like parts, Figure 1 illustrates my invention in a perspective view in connection with a water vessel, the latter being partly broken away to show the wringer parts therein; and Fig. 2 is a vertical central sectional view of the vessel and wringer. In each view the wringer is shown in its expanded or operative position. In Fig. 2 the dotted lines indicate the relative positions of the movable parts of the wringer when a mop may be inserted therein.

In construction I employ any suitable vessel A for retaining water, such as a pail, in which I place the wringer, which is operated therein.

The wringer comprises, broadly, the vessel A; a hinge *a*, suitably anchored at the exterior of the vessel, near the lower part thereof; a foot-lever B, attached to the hinge *a*; a foot-step C at the exterior of the vessel A, at the bottom thereof, opposite the side at which the foot-lever B is situated; a base-board D in the vessel; a presser-board E, hinged to the base-board D; a squeeze-roll G, mounted on the base-board D; a spring (or springs) H, seated on the base-board D and exerting its pressure against the presser-board E and the squeeze-

roll G, and a link I, connecting the foot-lever B and the presser-board E to draw said board away from said roll in order to insert a mop between them. The foot-lever and the foot-step may be detachable. A suitable base may support the vessel, if desired, to which the foot-lever and the foot-step may be connected.

Specifically, the foot-lever B is so hinged as to permit of movement only upwardly and downwardly, and it has at the upper side thereof a staple *h* or an eyebolt, to which the link I, such as a wire rod or a chain, is connected. The foot-step C is preferably composed of bent wire of U shape and having upright prongs pointed and driven into the wall of the vessel A and further secured by staples *e*. The boards D and E are preferably bifurcated at their ends by which they are connected together, so that the board D has two legs *m* and the board E has two similar legs *n*, and hinges *b* are attached to the legs *m* and *n*, thereby connecting the two boards D and E. A pair of counterpart frames F are attached rigidly to the sides of the board D, near the end thereof opposite its hinged end, the frames rising somewhat above the upper side of their supporting-board. The squeeze-roll G may be composed of any suitable material, such as wood or metal or rubber or having a rubber cover, and it is rotatively journaled in the frames F, extending across above the base-board D, parallel to the upper face thereof. The board E is normally pressed by the spring H against the roll G, which limits its movement upwardly. The upper end of the board E is preferably cut away at its edges, so as to provide a projecting integral lever *f* for the board E proper, and this lever has a staple *i* at the under side thereof or an eyebolt, to which the link I is connected. Any suitable number of coiled springs H may be employed, and obviously I may employ springs having other forms. Usually a screw *d* or bolt is inserted in the wall of the vessel A and in the board D to more securely hold the board in the vessel, or a suitable lug may be substituted therefor, so that the bottom of the upper end of the board D shall rest against the upper edge of the vessel and the end having the hinges rest upon the bottom of the vessel, at or near the opposite wall thereof, the board being slant-

ing. The vessel obviously may have a suitable bail or handles.

In operation when it is desired to wring a mop the operator may place one of his feet upon the foot-step C and the other one upon the foot-lever B, forcing the same down, and thereby causing the link I to pull the presser-board E away from the roll G, when the mop may be placed upon the board E below the roll. Then if the lever B be released the spring H will cause the mop to be squeezed between the board E and the roll G, and if now the mop be drawn upwardly upon the board E from under the roll G the water will be thoroughly removed from the mop and run down the board into the vessel A, from which it may be removed when convenient.

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

1. A mop-wringer including a vessel, a pair of hinged boards, a squeeze-roll supported by one of the hinged boards and normally in contact with the farther face of the opposing hinged board, a spring seated upon one of the boards and normally forcing the other board against the squeeze-roll, a foot-lever hinged to the vessel, and a link connecting the foot-lever with the hinged board that is forced against the squeeze-roll.

2. A mop-wringer comprising a vessel, a base-board slanting in the vessel, a pair of frames attached to the base-board, a squeeze-roll mounted in the frames, a presser-board hinged to the base-board and working between the base-board and the squeeze-roll, a spring normally forcing the presser-board from the base-board against the squeeze-roll, a foot-lever hinged to the vessel, and a link connecting the foot-lever with the presser-board, whereby the foot-lever may be normally supported by the presser-board and the presser-board be operated against the spring-pressure by the foot-lever.

3. In a mop-wringer, a base-board, a presser-board hinged at one end thereof to one end

of the base-board, a pair of frames attached to the base-board, a squeeze-roll mounted in the frames at the upper side of the presser-board, and a spring compressed between the base-board and the presser-board, all combined substantially as set forth.

4. In a mop-wringer, the combination of a rotative squeeze-roll having a fixed axis, a pivoted board adjacent to said roll, a spring normally pressing the free end of said board against said roll, a pivoted foot-lever, a link connecting the free end of the foot-lever with the free end of said board, a vessel to receive the water that may flow from said board, and frames supporting said roll.

5. In a mop-wringer, the combination of a vessel, a pair of frames having journal-bearings, a squeeze-roll mounted in said bearings, a movable presser-board situated in contact with said roll, a spring normally producing forcible contact of said board and said roll, a foot-lever, and a link connecting the foot-lever with said board, whereby said board may be withdrawn from said roll to insert a mop between the board and the roll.

6. In a mop-wringer, the combination of the vessel, the wringer comprising a base attached to the vessel and resting on the bottom thereof, a presser hinged to the base and having a free upper end, frames attached to the base, a squeeze-roll mounted in the frames and extending across the presser, a spring normally forcing the presser against the squeeze-roll whereby to force the water from a mop, a pivoted foot-lever, a link connecting the foot-lever with the free end of the presser whereby to force the presser away from the squeeze-roll to insert a mop, and a foot-step whereby to hold down the vessel and said wringer when withdrawing a mop under pressure.

In testimony whereof I affix my signature in presence of two witnesses.

ASA H. ALLISON.

Witnesses:

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E. T. SILVIUS.