

(Model.)

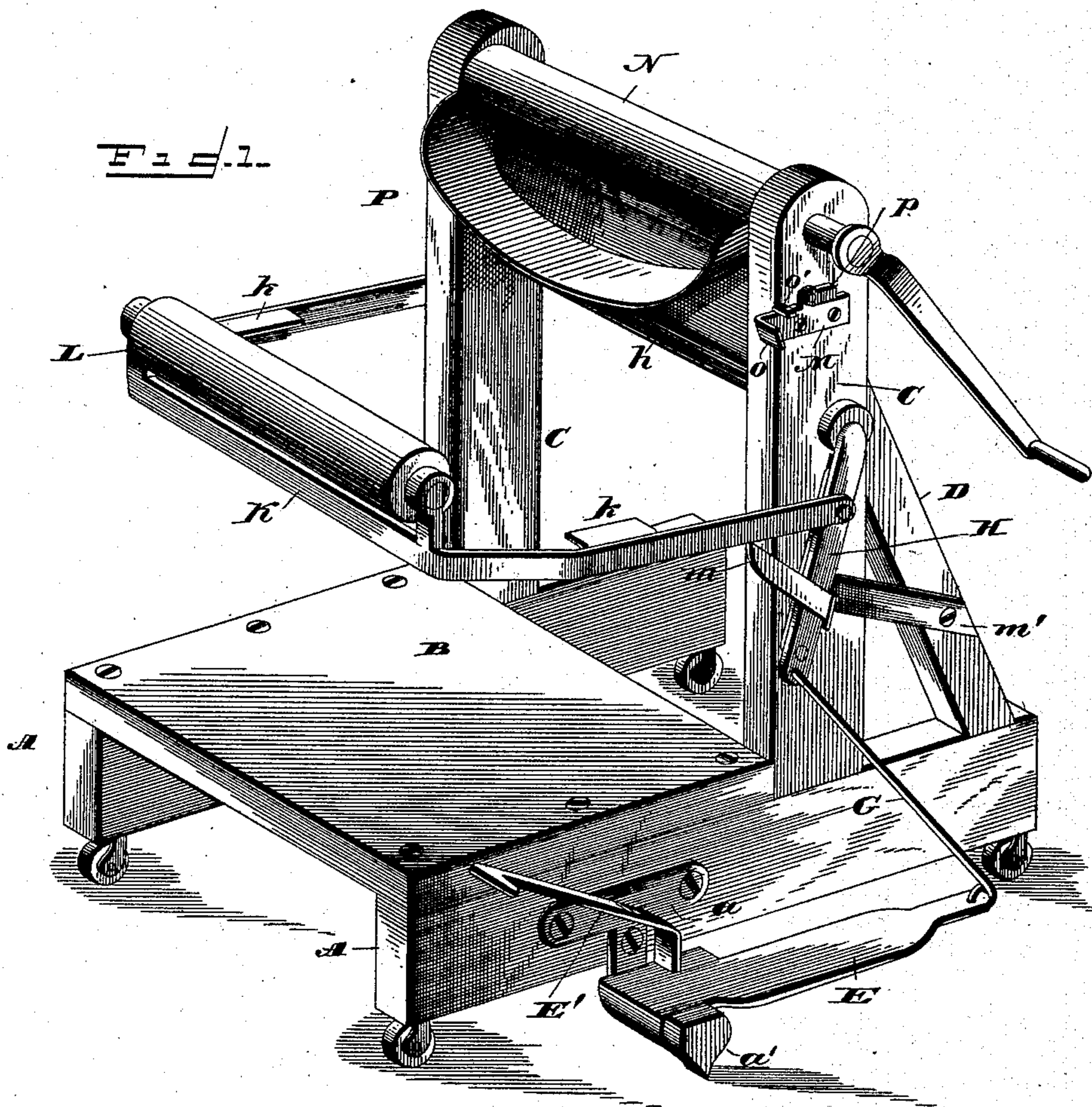
2 Sheets—Sheet 1.

E. H. NOBLE & C. E. WARREN.

MOP WRINGER.

No. 388,710.

Patented Aug. 28, 1888.



Eldridge H. Noble,
—and—
Charles E. Warren,

WITNESSES.

G. S. Elliott.

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INVENTOR,

Attorney.

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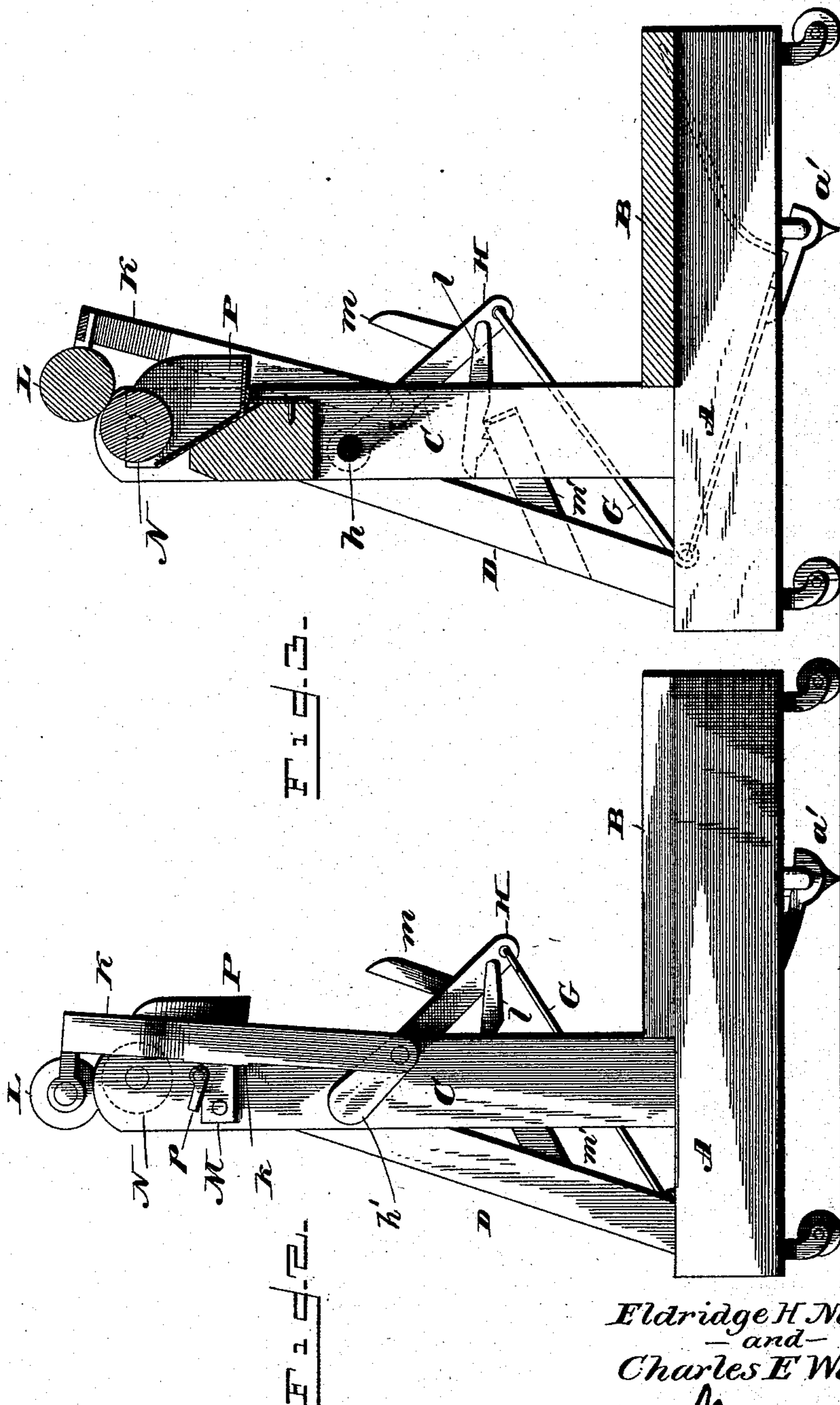
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UNITED STATES PATENT OFFICE.

ELDRIDGE H. NOBLE AND CHARLES E. WARREN, OF POSTVILLE, IOWA.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 388,710, dated August 28, 1888.

Application filed August 4, 1887. Serial No. 246,144. (Model.)

To all whom it may concern:

Be it known that we, ELDRIDGE H. NOBLE and CHARLES E. WARREN, citizens of the United States of America, residing at Postville, in the county of Allamakee and State of Iowa, have invented certain new and useful Improvements in Mop-Wringers; and we 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to certain new and useful improvements in mop-wringers; and our improvement consists in the special construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate our invention, Figure 1 is a perspective view of a mop-wringer constructed in accordance with our improvement, showing the pressing-roller folded down. Fig. 2 is a side elevation of the side opposite to that shown in Fig. 1, showing the presser-roller in an operative position; and Fig. 3 is a vertical sectional view.

A refers to the horizontal base-pieces of the frame, which are provided on their lower edges with rollers or casters. To the upper edges of the side pieces, A, are rigidly secured a platform, B, and standards C, which are provided with braces D D.

To one of the side pieces A is rigidly secured an angle-iron, *a*, the lower end of which is bent horizontally and provided with a downward projection, *a'*, which forms a bearing and serves as a support for the outer end of the horizontal arm of the said angle-iron. To the horizontal arm of the angle-iron is suitably pivoted a treadle, E, and near the rear end this treadle is provided with a rearward projection, E'. The front end of the treadle has loosely secured thereto a lifting-rod, G, which engages at its upper end with the lower end of a lifting-arm, H, said lifting-arm being connected to a transverse rod, *h*, which passes through the standards C C and is provided at its opposite end with a crank-arm, *h'*, Fig. 2.

To this crank-arm *h'* and the lifting-arm H, at a point opposite the end of the crank-arm, a bail, K, is pivotally attached, said bail carrying a pressure-roller, L, which is mounted in journals carried by said bail. When the bail is swung downwardly, as shown in Fig. 1 of the drawings, one end of said bail will rest upon an outwardly-projecting stop, *m*, which is rigidly secured to the lifting-arm H, so as to prevent the bail and roller falling beyond a horizontal position. the movement of the lifting-arm H in a downwardly direction being limited by a stop, *m'*, which is rigidly attached to the brace and standard C. The upper end of the outwardly-projecting stop is beveled, so as to engage with the pawl, which is pivoted to the arm H, as will be hereinafter set forth.

To the upper end of the standards C C is journaled a roller, N, beneath which is located a spout or trough, P, the lower edge of which projects beyond the standards, so that the wastewater will be collected therein and guided thereby into a tub or other receptacle which may be placed upon the platform.

The bail K, which carries the roller L, is provided with inwardly-projecting angle-pieces *k*, which are adapted, when the end of the lever E' is depressed to its full extent, to swing over and above guides M, which are attached near the upper ends of the standards C, beneath the roller N, which is provided with a crank-handle. The guides M are provided with outward projections *o o'*, so as to provide two spaces between which the angle-pieces *k* may pass, one of the spaces being adapted to be closed by pawls *p*, which are pivoted to the guides M, so as to swing over one of the spaces through which the angle-pieces *k* of the bail K slide. When the treadle E has been raised to its full extent, the bail K will be raised to the position shown in Fig. 2, and when raised in this position the angle-pieces *k* of the bail will enter one of the spaces between the projections *o* and *o'* of the guide M, so as to hold the bail above the roller N. By pressing upon the portion E of the treadle the bail will be thrown downwardly, so as to produce the requisite amount of pressure. If it is desired to hold the wringing-rollers in an operative position without maintaining pressure upon the treadle E, a serrated pawl, *l*,

which is carried by the lifting-arm H, is swung so as to engage with the upper part of the stop *m'*. By throwing back the pawls *p*, hereinbefore referred to, the angle-pieces *k* will enter the space between the outward projections, *o'*, and pawl attached to the guide M. When the rollers are placed one above the other, they can be securely held in position by the notched pawl *l*, and the device may be used as a clothes-wringer.

We claim—

1. In a mop-wringer, the combination, substantially as set forth, of a supporting-frame provided with vertical standards having a roller mounted in their upper ends, a transverse rod, *h*, journaled in the standards, having a lifting-arm secured to one of its ends and a crank-arm secured to its opposite end, a treadle attached to the lower part of the frame and connected to the lifting-arm, a bail, K, pivoted to the lifting-arm and to the crank *h'*, said bail carrying a roller, L, and provided with inwardly-projecting plates *k*, and guides M, secured to the upper part of the standards, with which the plates *k* are adapted to engage.

2. In a mop-wringer, the combination, substantially as described, of the frame, the transverse rod *h*, the lifting and crank arms H and *h'*, secured to the ends of said rod *h*, the serrated pawl *l*, attached to the lifting-arm, the stop *m*, with which said pawl *l* is adapted to engage, the bail carrying a roller and having inwardly-projecting plates *k*, the guide M, adapted to be engaged by the plates *k* of the bail, a treadle attached to the lower part of the frame having members E and E', and a link-rod, G, connecting the free end of the

member E of the treadle with the lifting-arm H.

3. In a mop-wringer constructed substantially as described, the combination of a swinging bail having a roller journaled therein and provided with inwardly-projecting plates *k*, and guides M on the standards of the frame, with which said plates *k* engage, said guides having outward projections *o* and *o'* and pawls *p*, as set forth.

4. In a mop-wringer, the combination, substantially as described, of the frame having standards carrying a roller in their upper ends, the transverse rod having bearing in said standards, the lifting and crank arms respectively attached to the opposite ends of the said rod, the bail pivotally attached to the crank and lifting arms and carrying a roller, and a treadle connected to the lifting-arm.

5. In a mop-wringer, the combination, with the frame having standards carrying a roller, the lifting and crank arms on opposite sides thereof, and the swinging bail carrying a roller attached at its ends to the lifting and crank arms, of the angle-iron *a*, secured to the one side of the base-frame, forming a bearing and having a downward projection, *a'*, at its outer end, the treadle composed of the members E and E', and the rod G, connecting the free end of the member E with the lifting-arm, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

ELDRIDGE H. NOBLE.

CHARLES E. WARREN.

Witnesses:

C. I. BISHOP,
HIRAM DRESSER.