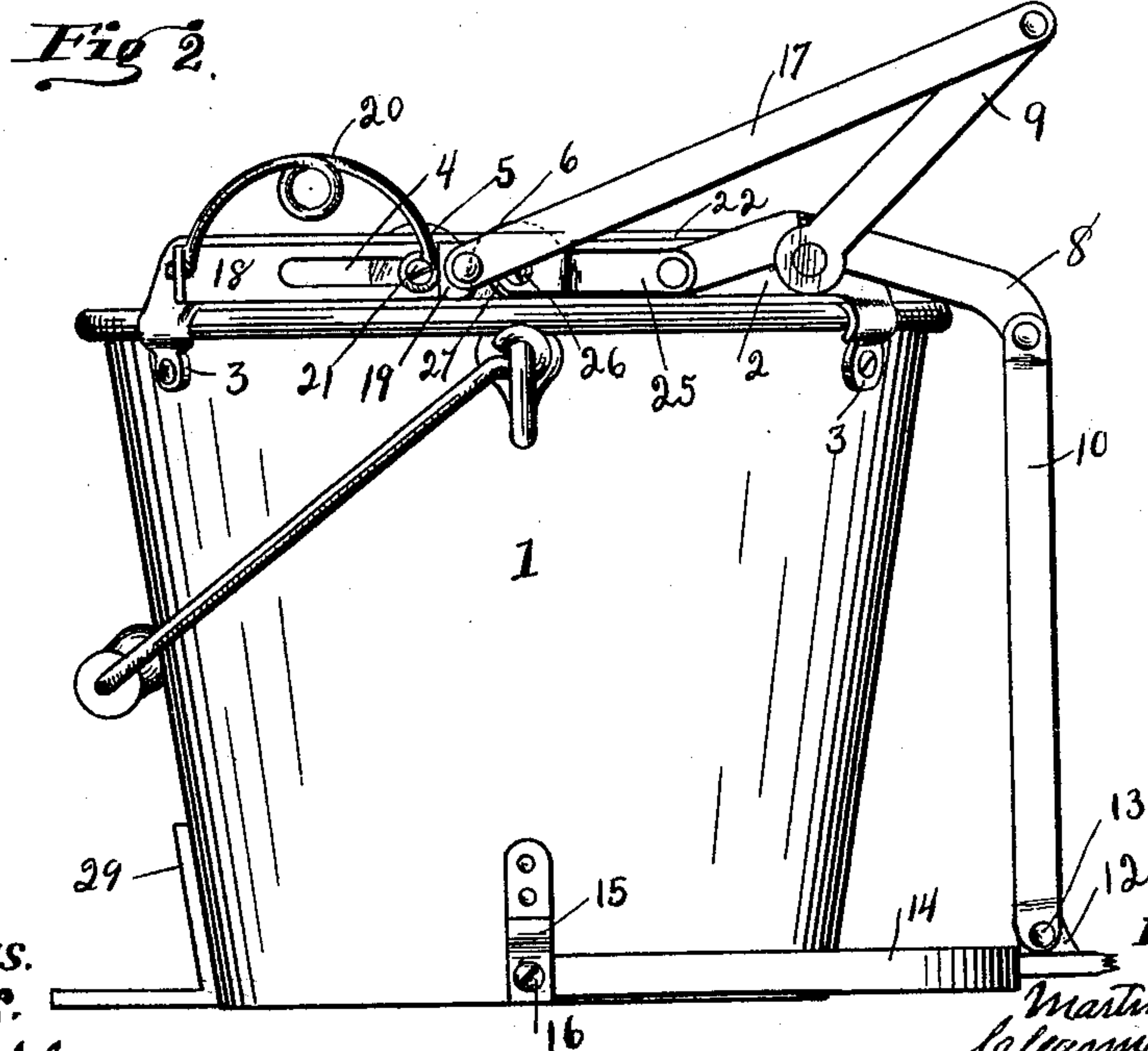
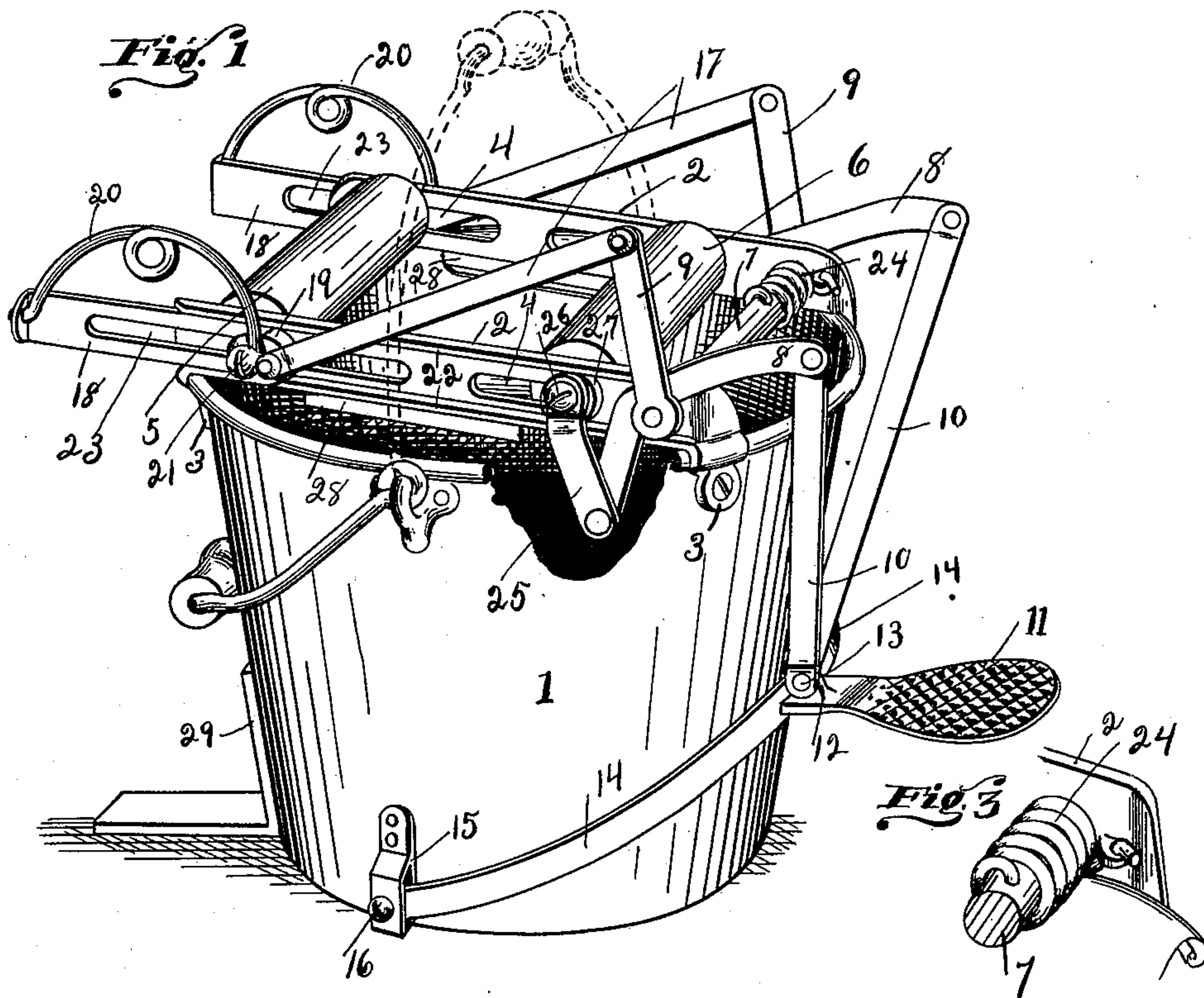


(No Model.)

M. L., C. V. & W. A. BEST.
MOP WRINGER.

No. 582,975.

Patented May 18, 1897.



WITNESSES.
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UNITED STATES PATENT OFFICE.

MARTIN L. BEST, CLEARMONT V. BEST, AND WILLIAM A. BEST, OF CANTON, OHIO.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 582,975, dated May 18, 1897.

Application filed April 14, 1896. Serial No. 587,475. (No model.)

To all whom it may concern:

Be it known that we, MARTIN L. BEST, CLEARMONT V. BEST, and WILLIAM A. BEST, citizens of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Mop-Wringers; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the wringer-rollers in their normal position. Fig. 2 is a side elevation showing the wringer-rollers brought together. Fig. 3 is a view showing a portion of one of the side bars, also showing a part of the rock-bar and one of the springs connected thereto.

The present invention has relation to mop-wringers; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents an ordinary bucket or pail to which the mop-wringer, together with its different attachments, is connected. To the top or upper portion of the bucket 1 are attached, by suitable clamping-bolts, the bars 2, which bars are provided with the flanges 3, said flanges being for the purpose of providing a means for properly connecting the bars 2. The bars 2 are each provided with the elongated slots 4, which elongated slots receive the shafts or bearings for the rollers 5 and 6. The arms 8 and 9 are located and arranged substantially as shown in the drawings, and, as shown, the arms 8 extend outward from the rock-bar, and to their outer ends are connected the bars 10, which bars extend downward to the foot-lever 11, to which foot-lever the bars 10 are pivotally connected by means of the flange 12 and the rivet or bolt 13. To the foot-lever 11 is securely attached the yoke 14, which yoke extends rearward and its

rear ends are pivotally connected to the flange 15 by means of the rivets or bolts 16. The arms 9 extend upward from the rock-bar 7, and to their upper ends are pivotally connected the bars 17, the opposite ends of said bars 17 being pivotally connected to the sliding bars 18, and for the purpose of providing proper attachment to the sliding bars said bars are provided with the integral heads 19.

The springs 20 are substantially of the form shown, and their outer ends are connected to the sliding bars 18, their inner ends being connected to the shafts or bearings 21 by bending said springs around the shafts, as illustrated in Fig. 2.

The object and purpose of the springs 20 are to allow the roller 5 to come and go to and from the roller 6, thereby compensating for any variation of the thickness of the mop that is placed between the rollers and at all times holding the rollers in proper position to squeeze the mop.

For the purpose of assisting in holding the sliding bars 18 in proper position and at the same time form guides for said sliding bars the parallel bars 2 are provided with the flanges 22. The bars 18 are each provided with the elongated slots 23, which elongated slots allow the roller 5 to move laterally independent of the bars 18.

For the purpose of normally holding the rollers 5 and 6 in the position illustrated in Fig. 1, and also elevate the lever 11 when freed, the springs 24 are provided and are located upon the rock-bar 7, one end of each of said springs 24 being attached to the rock-bar and the opposite ends of said springs 24 are attached to the parallel bars 2.

In the drawings but one spring is illustrated; but there are to be two springs, one located upon each end of the rock-bar and upon the inner sides of the parallel bars 2. It will be understood, however, that the same object can be accomplished by providing one spring, such as 24, and forming it of sufficient strength to carry out the objects and purposes for which the springs are designed and calculated.

To the inner ends of the arms 8 are pivotally connected the links 25, which links are

connected to the bearings 26, said bearings being attached to the rollers 6. For the purpose of detaching the bearings from the rollers 5 and 6 they may be screw-threaded for a short distance and screwed into the ends of the rollers. For the purpose of holding the links 25 in proper position laterally blocks or disks, such as 27, are provided and are located against the outer sides of the parallel bars 2.

The operation of our improved wringer is as follows: When it is desired to wring a mop, it is placed between the rollers 5 and 6 when the rollers are in the position illustrated in Fig. 1, after which the lever is pressed downward, thereby causing the rollers to come together by means of the arms 8 pushing the roller 6 toward the center of the bucket by means of the links 25 and the arms 9 pulling the connecting-bars 17 forward or toward the center of the bucket, which bars bring with them the roller 5, thereby causing the two rollers to approach each other. It will be understood that when the lever 11 is forced downward the inner ends of the arms 8 will be elevated, so as to bring the links 25 into a horizontal position, which will hold the rollers together without heavy pressure upon the lever 11. For the purpose of causing the arms to act so as to push the links 25 their inner ends are bent or curved downward, as illustrated in Figs. 1 and 2. In order that the bucket may be held firmly, the bracket 29 is provided, which bracket is located opposite the lever 11, as illustrated in the drawings.

For the purpose of preventing the cloth of the mop from becoming entangled or bound between the bars 2 and the ends of the rollers 5 and 6 said bars are provided with the inward-projecting flanges 28.

Having fully described our invention, what

we claim as new, and desire to secure by Letters Patent, is—

1. In a mop-wringer the combination of a bucket provided with parallel bars, a rock-bar journaled to the parallel bars and provided with springs, arms securely connected to the rock-bar and links connected to the arms and to the foot-lever, the rollers 5, and 6, supported by the parallel bars, the sliding bars 18, and the springs 20, substantially as and for the purpose specified.

2. In a mop-wringer the combination of a bucket, or receptacle having connected thereto parallel bars provided with slots, sliding bars connected to the parallel bars, sliding rollers carried by the parallel bars, the springs 20, connected to one of the bearings of the rollers and to the sliding bars, and means for horizontally moving the rollers to and from each other, substantially as and for the purpose specified.

3. The combination of parallel bars having journaled thereto a spring-actuated rock-bar, the arms 8, connected to said rock-bar and provided with inwardly-curved portions, links pivoted to the free ends of the curved portions of the arms 8, and connected to the roller-bearings adjacent to said arms 8, sliding bars connected to the parallel bars 2, and the springs 20, fixed to the sliding bars and connected to the bearings of the roller 5, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

MARTIN L. BEST.
CLEARMONT V. BEST.
WILLIAM A. BEST.

Witnesses:

J. A. JEFFERS,
F. W. BOND.