

No. 736,065.

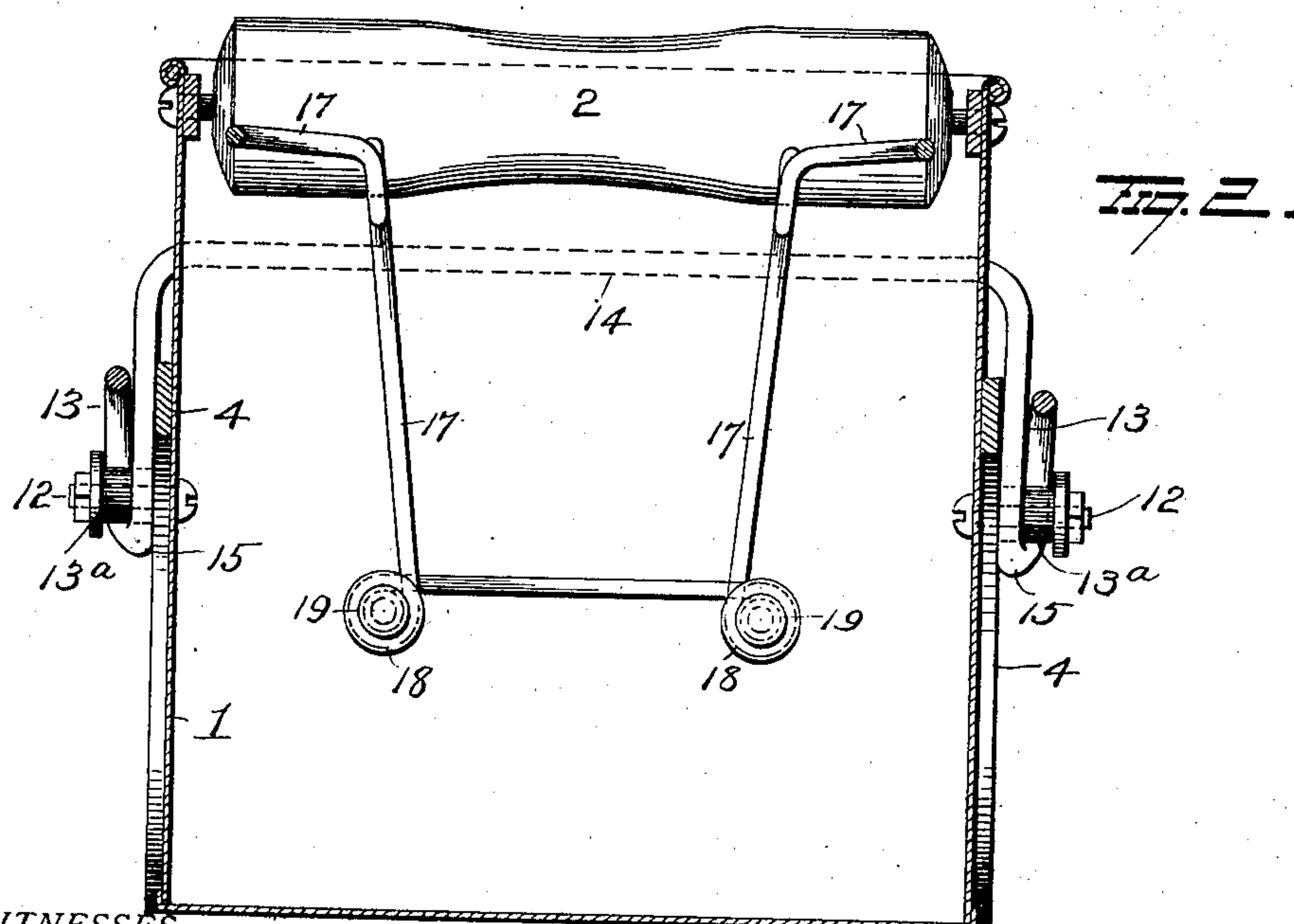
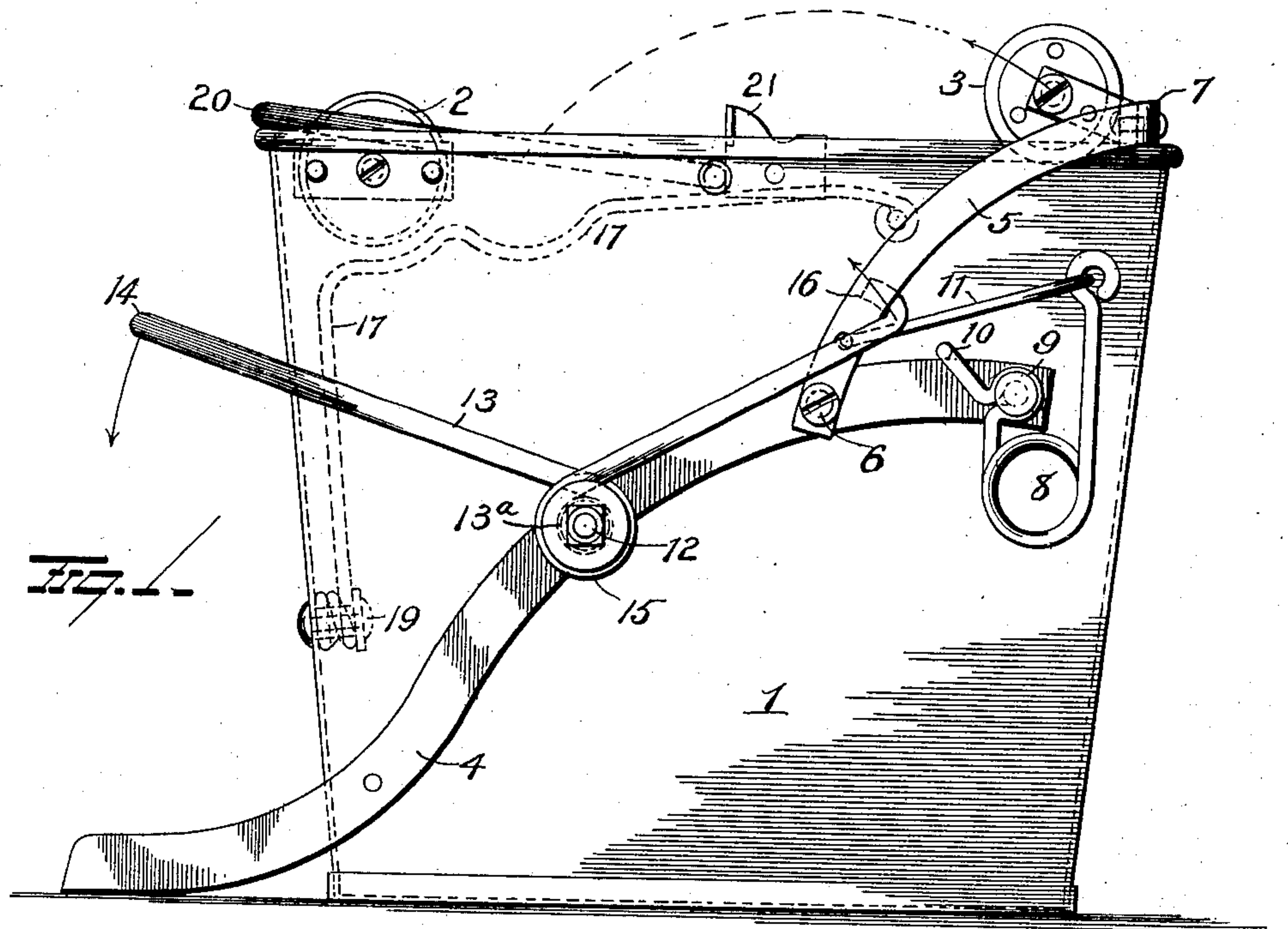
PATENTED AUG. 11, 1903.

A. M. BURNHAM.
MOP WRINGER.

APPLICATION FILED DEC. 13, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES

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INVENTOR

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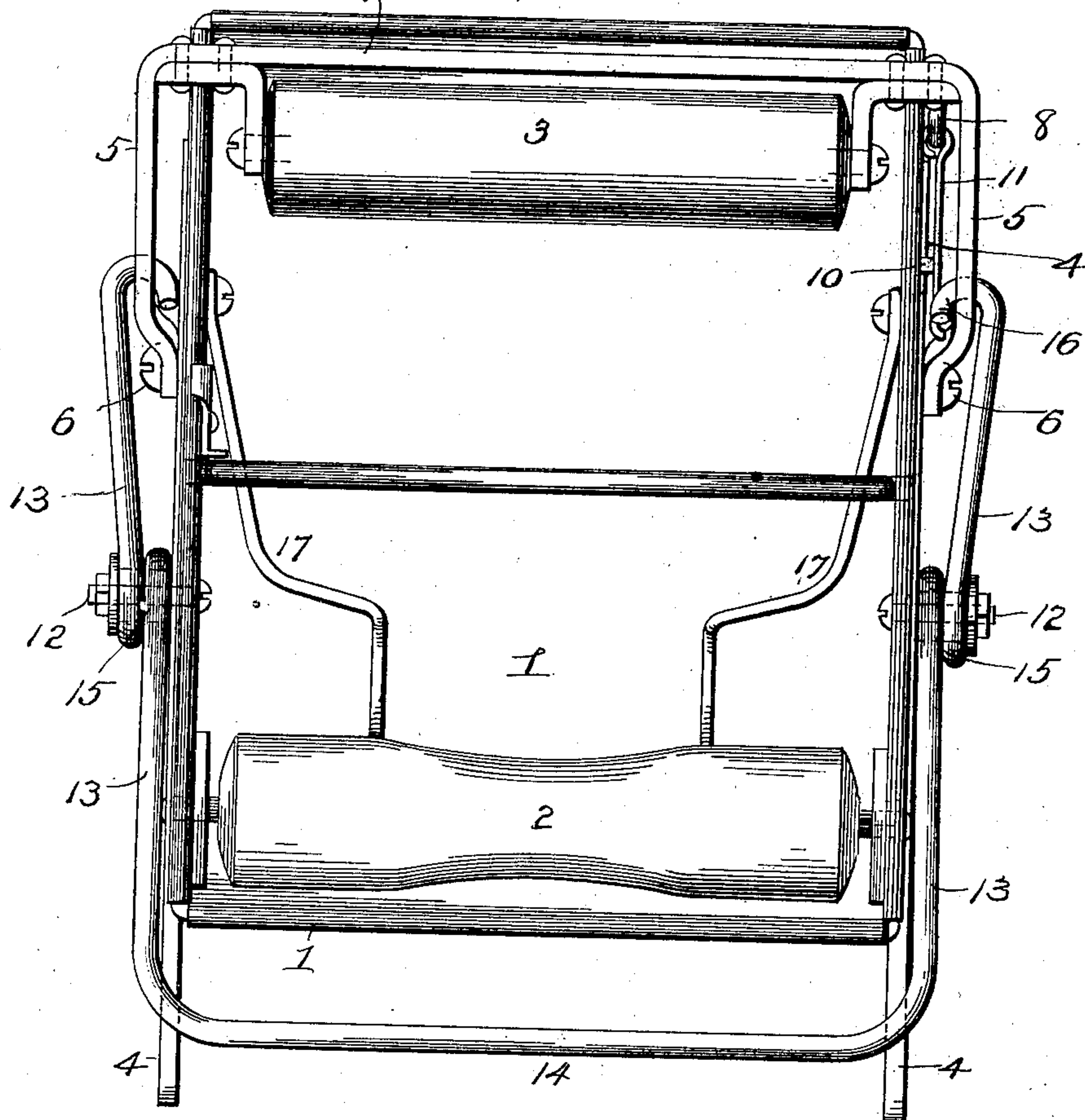
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2 SHEETS—SHEET 2.

FIG. 3.



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UNITED STATES PATENT OFFICE.

ARTHUR M. BURNHAM, OF GARDINER, MAINE, ASSIGNOR TO WILLIAM B. RAND, OF BOSTON, MASSACHUSETTS.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 736,065, dated August 11, 1903.

Application filed December 13, 1902. Serial No. 135,108. (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 improvements of this character which will greatly facilitate the wringing of a mop by power applied to a foot-treadle and wring the water from the mop into a pail or receptacle carrying the treadle and other wringing mechanism, and, further, to provide an improved spring-treadle, an improved spring mop-guide, and improved combinations of parts, as will hereinafter appear.

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, illustrating my improvements. Fig. 2 is a view in section, and Fig. 3 is a top plan view.

1 represents a rectangular pail or receptacle having revolvably supported at its upper edge at one end a preferably concave stationary roll 2 and between which and a movable roll 3 the mop is wrung, as will be more fully hereinafter described.

To the sides of the pail 1 bars 4 are secured and are bent into the compound curve shown and project beyond the forward end of the pail, forming feet to prevent upsetting in applying pressure in wringing the mop. To these bars 4 a swinging frame 5 is pivotally connected by screws or bolts 6 and comprises a bar of metal bent at two points between its ends, providing a straight bar 7, extending over the pail and carrying the roller 3, and the ends of said bar are slightly curved edge-wise and pivoted to bars 4, as above explained. This frame 5 is normally held in its inoperative position against the top of pail 1 at one end by a spring 8, which comprises a spring-

wire coiled between its ends, as shown, and having one end bent around and secured to a rivet 9 on bar 4 and then bent at right angles, forming a lug 10, projecting over the upper edge of bar 4 to prevent pivotal movement on rivet 9. The other end of the spring extends upward and is connected by a wire link 11 with frame 5, the link being preferably removably connected to the frame.

The bars 4 have secured thereto, by means of bolts 12 or otherwise, sleeves 13^a to pivotally support my improved treadle 13, which latter comprises a piece of heavy spring-wire, bent at two points between its ends, forming the treadle or foot portion 14, and the ends of the treadle are coiled, as shown at 15, and supported on sleeves 13^a, and the extreme ends of the treadle are bent, forming hooks 16 to engage the frame 5 near the pivotal point thereof.

A mop-guide 17 is provided in the pail and comprises a wire bent at two points between its ends, as shown at 18, to receive retaining pins or bolts 19. The ends of the wire then extend upward to near the bottom of roll 2 and then bend at right angles and extend parallel and are bent into the wavy or irregular shape shown and then bulge outward to the sides of the pail and are secured thereto by screws or bolts, forming a guide to direct the mop to the center of roll 2 and in position to be most effectually squeezed between the rolls 2 and 3.

A lifting-bail 20 is pivotally supported at its ends in the sides of pail 1, and a stop or shoulder 21 is secured to the side of the pail to prevent the bail from swinging over against the movable frame 5, where it might interfere with the perfect operation of the wringer.

The operation of my improvements is as follows: When a mop is to be wrung, it is placed in the pail or receptacle 1 and directed by guide 17 to the center of roll 2. The operator then presses down on treadle 13 to swing roller 3 over against the mop and press it between the rolls to effectually wring the water from the mop when it is drawn from between the rolls. As the hooked ends of treadle engage swinging frame 5, near the pivotal support of the frame, it will move frame 5 a considerable distance with comparatively slight movement of the treadle, and as the frame

moves toward the roll 2 hooks 16 will move away from the pivots 6, and a greater leverage is exerted by the treadle to effectually squeeze the mop.

5 By constructing the treadle 13 and guide 17 both of spring-wire and shaping and mounting the guide as above explained they will yield to compensate for tangles or bunches of the mop and not injure the wringer. The
10 form of spring 8 and its connecting-link 11 are also improvements over anything of this character heretofore known.

A great many changes might be made in the general form and arrangement of parts described without departing from my invention,
15 and hence I do not confine myself to the precise construction set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit
20 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
25 a stationary roll, of a pivoted frame, a roll carried by the pivoted frame, a treadle connected with said pivoted frame, a spring and a link pivoted at one end to said spring and connected at its other end to the pivoted
30 frame independently of the treadle and operating to move the frame away from the stationary roll.

2. In a mop-wringer, the combination with
35 a pail or receptacle, of a stationary roll at one end of the pail, a frame pivoted to the pail and carrying a roll, a treadle composed of heavy spring-wire, coiled at its pivotal points

between its ends, and having its ends bent to engage the frame and swing it, when the treadle is depressed.

3. In a mop-wringer, the combination with
40 a receptacle, of a stationary roll at one end thereof, a movable frame carrying a roll, a spring normally holding the frame away from the stationary roll, a spring-treadle to move
45 the frame to bring the rolls together and a spring mop-guide attached at one end to the receptacle below its top and at the other end to the sides of the receptacle near its top to yieldingly guide the mop between the rolls. 50

4. In a mop-wringer, the combination with
a pail or receptacle, a roller journaled therein, a swinging frame pivoted to the sides of the pail, carrying a roller and bent edgewise, or
55 curved at their ends, and a treadle having a sliding connection with the curved or bent ends to operate the frame.

5. In a mop-wringer, the combination with
a pail or receptacle, a roller journaled therein, a swinging frame pivoted to the sides of the
60 pail, carrying a roller, and bent or curved edgewise at their ends, a treadle pivoted to the pail between its ends, and the ends of the treadle engaging the curved or bent ends of the frame near its pivotal point and which
65 move away from the pivotal point as the frame is swung to bring the rollers together.

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

ARTHUR M. BURNHAM. [L. S.]

Witnesses:

EDMUND B. CONNOR,
MARTIN BURNS.