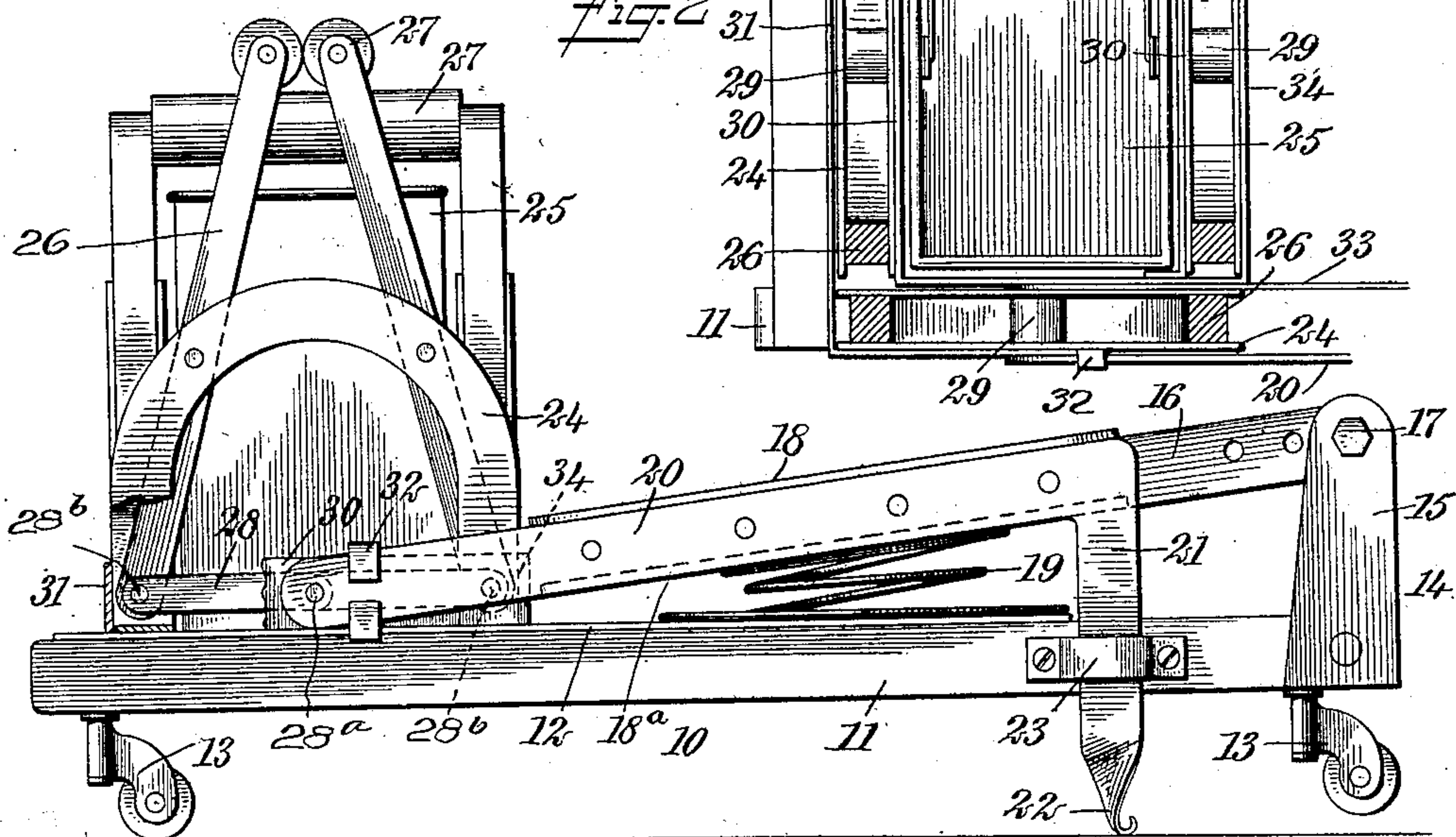
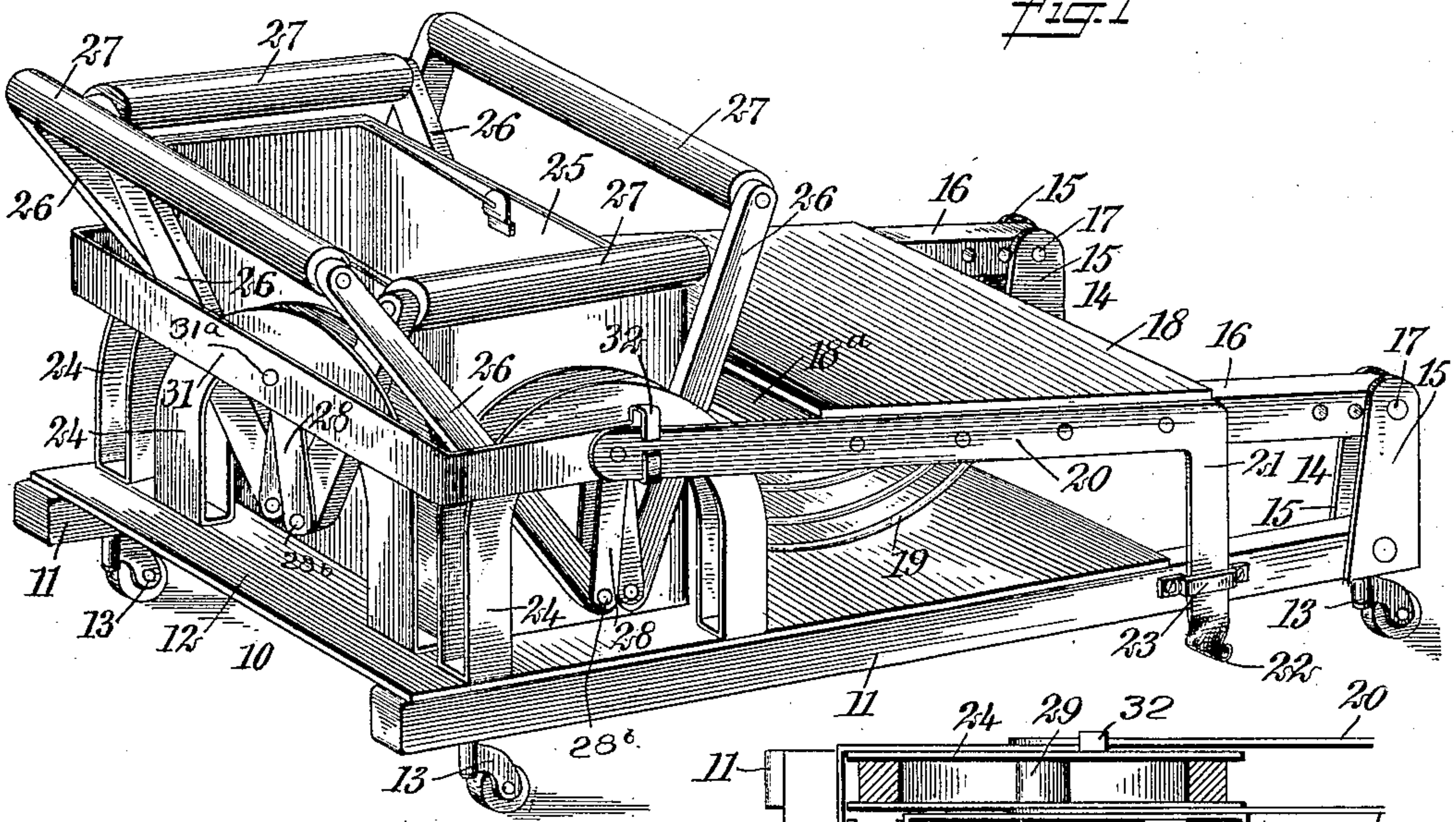


J. SANTIN.
MOP WRINGER.
APPLICATION FILED MAY 1, 1908.

912,033.

Patented Feb. 9, 1909.
2 SHEETS—SHEET 1.



WITNESSES
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Fig. 3

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Fig. 4

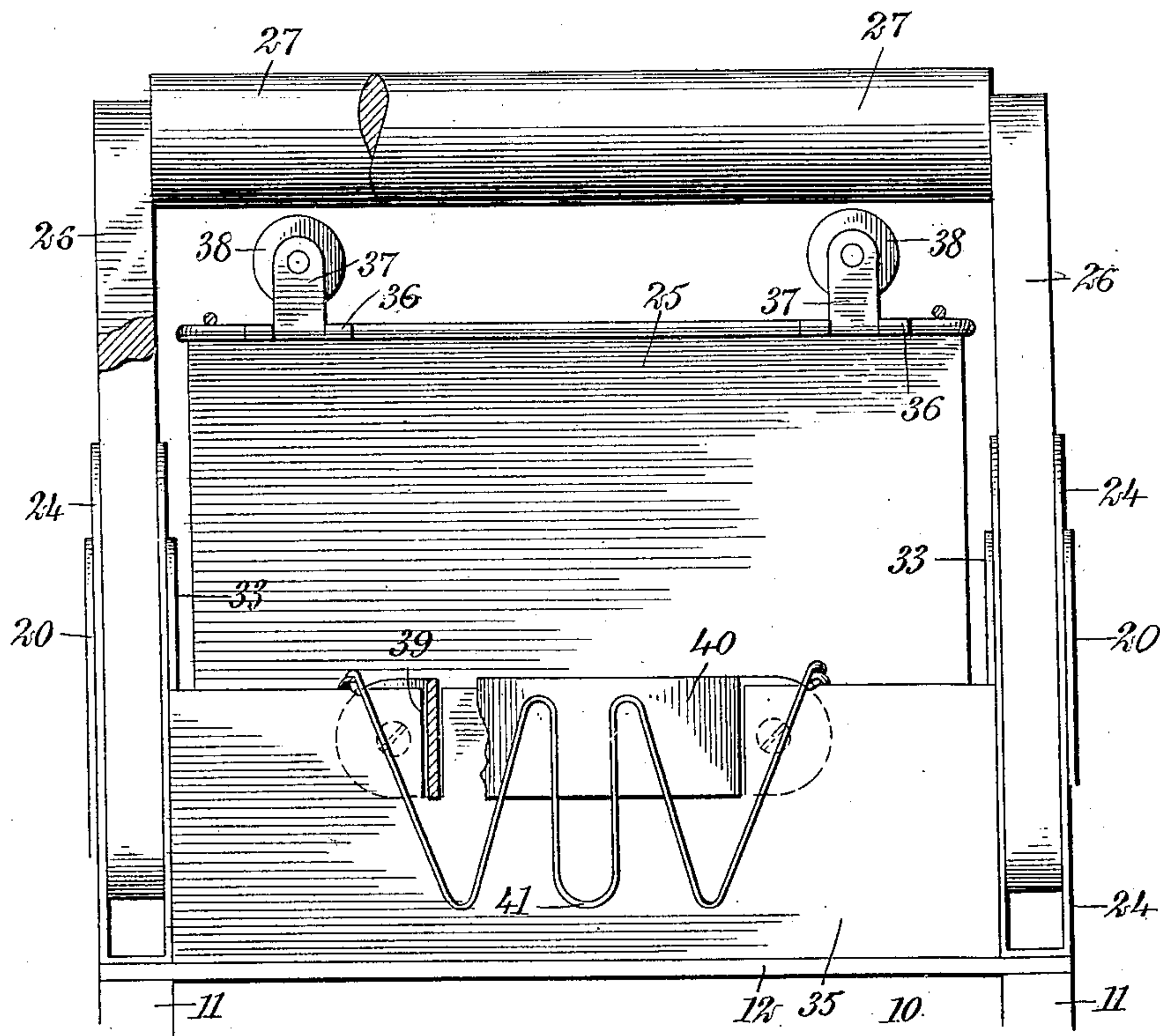
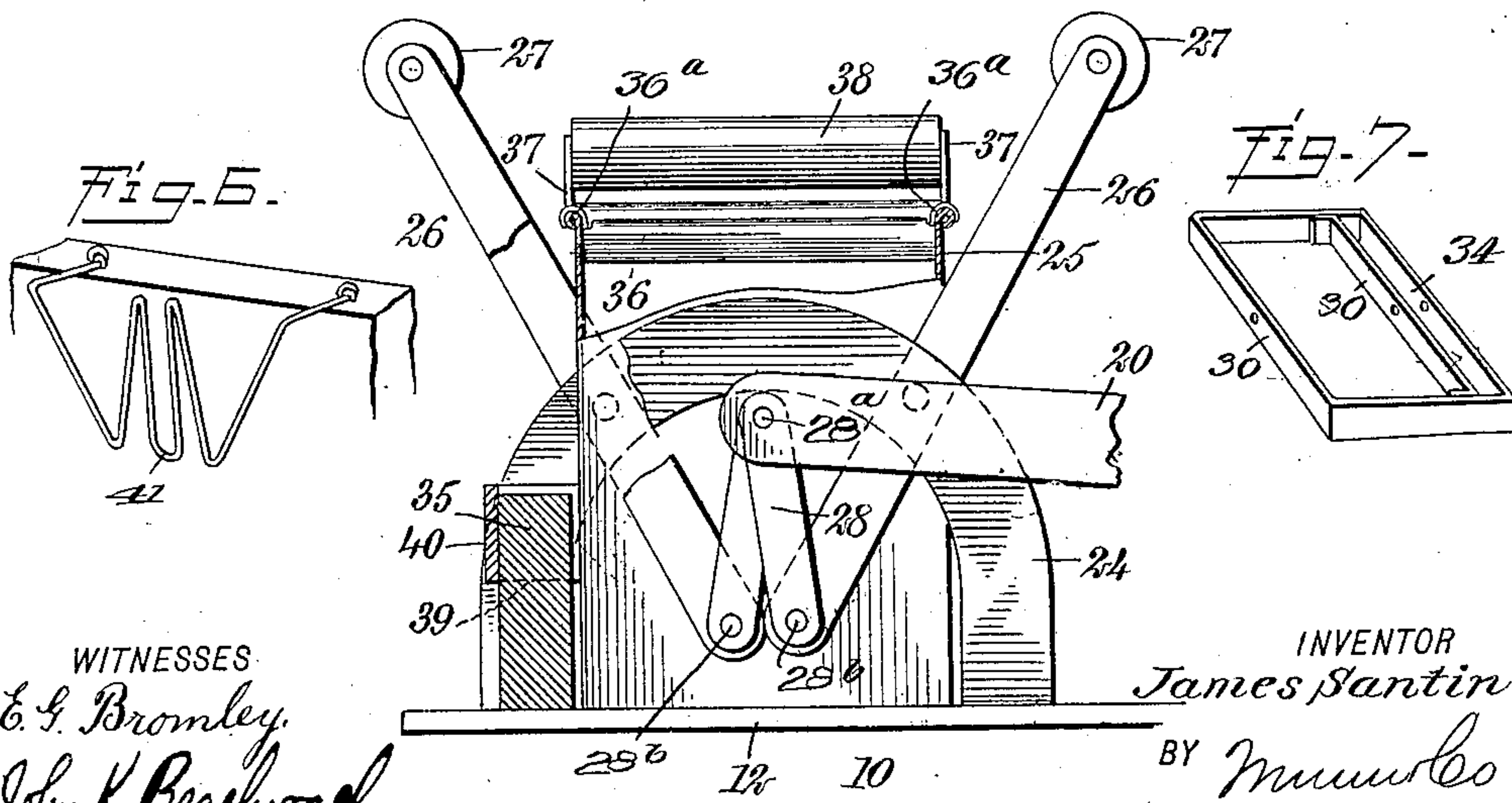


Fig. 5



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UNITED STATES PATENT OFFICE.

JAMES SANTIN, OF EL RENO, OKLAHOMA.

MOP-WRINGER.

No. 912,033.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed May 1, 1908. Serial No. 430,292.

To all whom it may concern:

Be it known that I, JAMES SANTIN, a citizen of the United States, and a resident of El Reno, in the county of Canadian and State of Oklahoma, have invented a new and Improved Mop-Wringer, of which the following is a full, clear, and exact description.

This invention relates to mop wringers, and more particularly to a device of this kind, which comprises a platform for holding a pail or other receptacle, and adapted to be pushed or otherwise moved along upon a floor, rollers movably carried by said platform and serving to wring out a mop, wash-rag or the like, and means for simultaneously operating the rollers and holding the platform against casual movement upon the floor, while the mop is being wrung out.

An object of the invention is to provide a simple, strong and durable mop wringer which is adapted to carry a pail or other receptacle for water or the like, by means of which a mop or similar device can be thoroughly wrung out and freed from adhering water, and which is operable by the pressure of the foot upon a suitable foot-board.

A further object of the invention is to provide a device of the class described having rollers adapted to wring out a mop, and which are normally inoperatively disposed, together with means for approaching the rollers over a pail or receptacle carried by the device, and means for automatically returning the rollers to their separated and inoperative positions.

The invention consists in the construction and combination of parts to be more fully described hereinafter and more particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view showing the preferred form of my mop wringer; Fig. 2 is a transverse section of the preferred form showing a receptacle such as a pail, in position thereupon, and the means for operating the wringing members or rollers; Fig. 3 is a side elevation of the device showing parts broken away; Fig. 4 is an end elevation of a modified form of my mop wringer showing parts broken away; Fig. 5 is a side

elevation showing the wringing means of the modified form and having parts broken away and parts in section; Fig. 6 is a perspective view of a detail; and Fig. 7 is a perspective view of a further detail.

Referring more particularly to the drawings, in Figs. 1, 2 and 3, in which the preferred form of my invention is illustrated, I provide a base 10 consisting of side rails 11 carrying a floor or platform 12 thereupon. The rails 11 are movably carried upon the rollers or casters 13 which permit the device to be easily rolled or pushed along upon a floor or the ground. The platform 12 does not extend the entire length of the rails, and at the projecting ends, the latter have upwardly disposed brackets or supports 14 consisting preferably, of separated plates 15 secured by means of screws, rivets or the like, at the ends of the rails. Bars 16 are arranged longitudinally of the rails 11 and each has an end pivotally mounted by means of a pin 17, between the plates 15 of one of the supports 14. A foot-board 18 is arranged upon the bars 16 and is supported by the latter. A second board 18^a is carried by the bars 16, underneath the foot-board 18. A preferably helical spring 19 is positioned upon the platform 12, underneath the board 18^a and engages the same to hold the bars 16 in a normally elevated position. Elongated members 20 are secured to the bars 16 by means of screws or in any other convenient manner and extend beyond the free ends of the bars. At the opposite ends, the members 20 have downwardly disposed portions 21 having the ends bent to form feet 22 which project below the rails 11 and are adapted to engage the floor or the ground when the foot-board is depressed, thereby raising the rollers 13 at one end of the base, from the floor, to prevent casual movement of the device. Guides 23 through which the downwardly disposed parts 21 can move freely are carried by the rails 11.

At the end of the platform 12 remote from the foot-board 18 are four double brackets 24 of inverted U-shape. Each of the brackets is formed from an annular strip of material bent upon itself, as appears most clearly in Fig. 1. The brackets may be fastened in any convenient manner upon the platform and are arranged at the four sides of a rectangle. The arrangement is such that a pail or other receptacle 25 can be positioned between the opposite brackets upon

the platform. Preferably I employ a pail of angular section though it will be understood that a receptacle of any other form adapted to the purpose, can be employed.

5 The pail is of course, removable, and serves to contain water or soap suds with which the mop or other article is moistened.

Between the sides of each of the brackets 24 are pivoted arms 26. The opposite arms 10 carry therebetween, wringing rollers 27. The arms of two opposite brackets are longer than the arms of the other brackets, so that one pair of rollers is higher than the other pair and can be approached and separated 15 above the same. This arrangement permits all the rollers to be simultaneously operated, as will appear more clearly hereinafter, without interfering with each other. The arms of each of the brackets are connected 20 by double toggles 28, the members of which have a pivotal connection 28^a and further, each has a pivotal connection 28^b with an arm. A block 29 is arranged between the toggles of each bracket at adjacent ends of 25 the toggle members. The projecting ends of the elongated members 20 are secured to the toggles of the side brackets and control the same. As the arms 26 are pivoted between the sides of the brackets, the latter serve to 30 guide the arms when these are operated.

At the inside, the toggles of all the brackets are operatively connected by means of an angular, preferably rectangular, frame 30. A yoke 31, having at the extremities offset 35 fingers 32 which are disposed toward each other and serve to engage the projecting ends of the elongated members 20, extends from the lateral brackets at the outside thereof, to the outside of the end bracket and is there 40 operatively connected to the toggle of the end bracket by a pivotal connection 31^a. Near the ends, the yoke 31 is secured to the lateral toggles by the pivotal connections 28^a. At the end of each of the bars 16 is a 45 second elongated member 33 extending toward one of the side brackets and operatively connected at the inside to the toggle of the side bracket. A yoke 34 formed by an extension of the frame 30 extends from 50 the inside of each of the side brackets to the end bracket adjacent to the foot-board 18 and is there operatively connected with the toggle of this last-mentioned bracket. It will be understood that by means of the 55 elongated members, the frame and the yokes, the toggles are all constrained to operate together and are controlled by the bars 16. The latter are operated by depressing the foot-board 18 by the foot or in any other 60 convenient manner, and when the bars are depressed the toggles are all extended to swing the arms together and thereby to approach the rollers. The latter consist of opposite pairs which are at substantially right 65 angles with each other, and when a mop is

positioned between the rollers and the latter are approached, a highly efficient wringing action can be effected, when the mop is withdrawn from between the rollers. These are of course rotatably mounted to permit the 70 mop to be withdrawn easily, notwithstanding the pressure which is applied thereto by means of the rollers. It will be understood that the spring 19 operates to maintain the foot-board and the bars 16 in a normally ele- 75 vated position such that the opposite rollers 27 are separated and a mop or the like can be inserted into the pail 25 located between and under the rollers. When it is desired to wring out the mop, the foot-board is de- 80 pressed and the rollers are thereby approached; the mop is then withdrawn from the rollers, and the water is thereby expressed from the mop.

In the modified form of my invention 85 shown in Figs. 4 and 5 I provide but two brackets 24, one at each side of the platform. At the end of the platform is a wall 35 adjacent to which the receptacle 25 is posi- 90 tioned. The latter has cross brackets 36 adj- 90 justably mounted upon the rim by means of end recesses 36^a formed to fit slidably upon the rim and provided with upwardly ex- 95 tending ears 37 between which are pivotally mounted rollers 38. The latter are arranged 95 transversely of the rollers 27 and can be positioned any desired distance apart. The wall 35 has notches 39 formed to receive the sides of an offset bracket 40 carried by the 100 pail and serving to hold the pail securely in position. The wall has a clip 41 fashioned from wire or other suitable material bent into a form adapted for the purpose and 105 serving to be engaged by the mop handle or other article so that the wringer can be 105 drawn from place to place by the operator.

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

1. A device of the class described, comprising a platform for holding a pail and hav- 110 ing supporting rollers, wringing means carried by said platform, means for operating said wringing means, and means controlled by said operating means for raising one end 115 of said platform from the floor to hold said platform against casual movement.

2. A device of the class described, comprising a platform for holding a pail and having supporting rollers, wringing means 120 carried by said platform, means for operating said wringing means, and members controlled by said operating means and arranged to be forced against the floor partly 125 to raise said platform to disengage certain of said rollers from the floor when said operating means are actuated.

3. A device of the class described, comprising a platform adapted to carry a pail, pairs of parallel wringing members, said 130

pairs being at an angle with each other, and means for simultaneously operating said members to separate and approach said members of each pair.

5 4. A device of the class described, comprising a platform adapted to carry a pail, pairs of wringing rollers arranged at an angle with each other, said rollers of each pair being normally separated, one of said pairs
10 being arranged above the other, means for simultaneously approaching said rollers of each pair, and means for automatically returning said rollers to their normal positions.

15 5. A device of the class described, comprising a plurality of pairs of pivoted arms, rollers mounted between arms of opposite pairs, toggles operatively connecting the arms of each pair, a movable member controlling all of said toggles and operable to
20 extend the same whereby said rollers are approached, and means for holding said member in a normal position such that said rollers are separated.

25 6. A device of the class described, comprising a platform having double brackets arranged thereupon so that a pail can be positioned between said brackets, a pair of arms pivotally mounted between the sides of
30 each of said brackets, a toggle operatively connecting said arms of each of said brackets, rollers carried by said arms of opposite brackets, a foot-board, elongated members rigid with said foot-board, means for oper-
35 atively connecting all of said toggles, said elongated members controlling said means, means for holding said foot-board in a normal elevated position whereby said opposite rollers are normally separated, and means
40 controlled by said foot-board for raising said platform at one end when said foot-board is depressed to hold said platform against casual movement.

45 7. A device of the class described, comprising a platform adapted to carry a pail and to be moved upon a floor, pairs of parallel wringing members, said pairs being at an angle with each other, and means for simultaneously operating said wringing members
50 and holding said platform against casual movement.

8. A device of the class described, comprising a platform adapted to carry a pail and to be moved upon a floor, pairs of wringing rollers arranged at an angle with each
55 other, said rollers of each pair being normally separated, one of said pairs being arranged above the other, means for simultaneously approaching said rollers of each pair, means for automatically returning said
60 rollers to their normal positions, and members controlled by said means for approaching said rollers, said members being arranged to be forced against a floor to raise a part of said platform from the floor. 65

9. A device of the class described, comprising a platform adapted to hold a pail and to be moved upon a floor, a plurality of pairs of pivoted arms, rollers mounted between arms of opposite pairs, toggles operatively connecting the arms of each pair, a
70 movable member controlling all of said toggles and operable to extend the same whereby said rollers are approached, means for holding said member in a normal position
75 such that said rollers are separated, and means controlled by said member and serving to hold said platform against casual movement when said member is operated.

10. A device of the class described, comprising a platform adapted to carry a pail and to be moved upon a floor, brackets mounted upon said platform, a pair of arms
80 pivotally carried by each of said brackets, a toggle operatively connecting said arms of each of said brackets, members operatively connecting all of said toggles, rollers carried by said arms of opposite brackets, a movable
85 foot-board controlling said toggles, means for holding said foot-board in a normal position, and members controlled by said foot-board and adapted to engage the floor to raise said platform at one end, said platform
90 having supporting rollers.

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

JAMES SANTIN.

Witnesses:

R. N. WHITTLESEY,
P. J. KELLY.