

T. PETERSON.

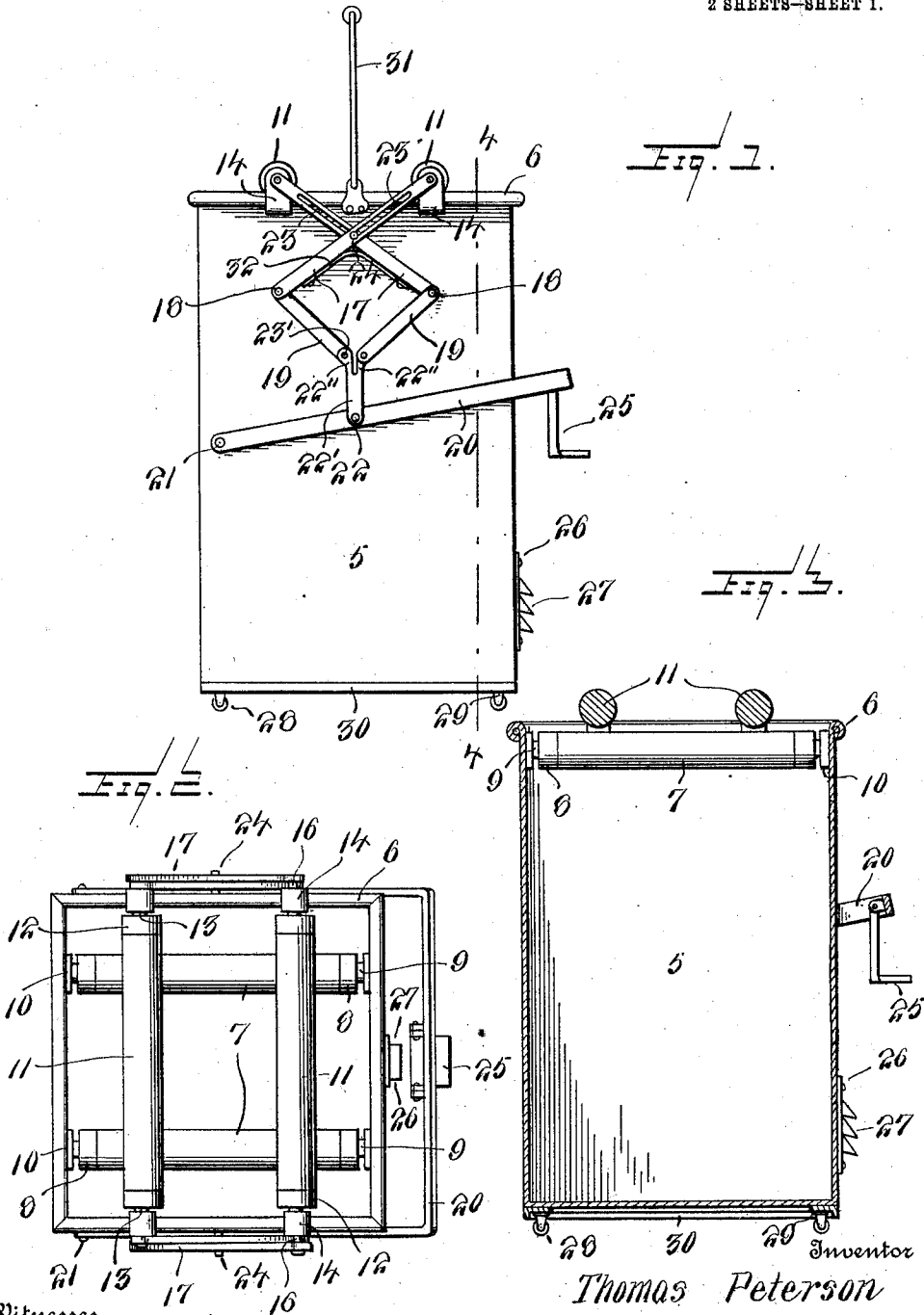
MOP WRINGER.

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1,038,192.

Patented Sept. 10, 1912.

2 SHEETS—SHEET 1.



Witnesses
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2 SHEETS—SHEET 2.

Fig. 7.

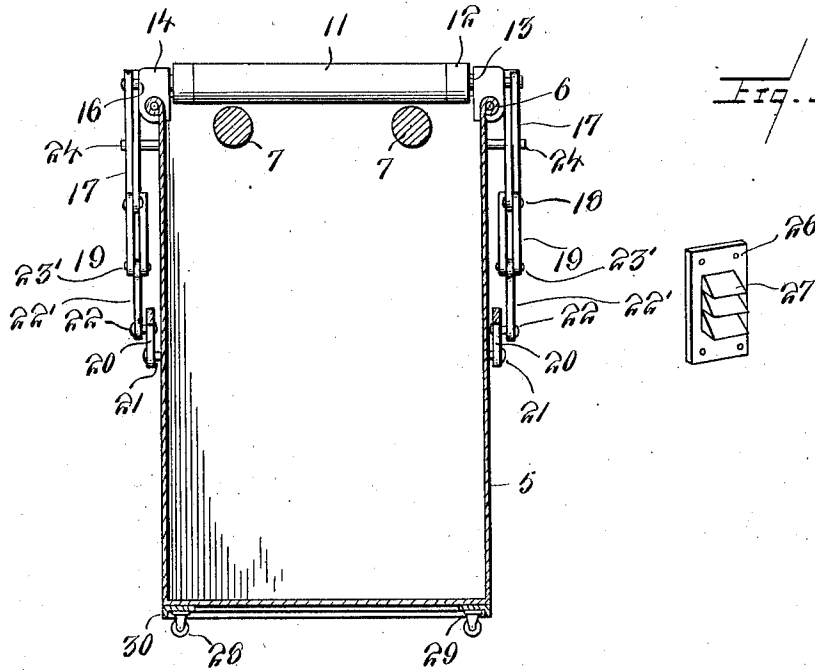
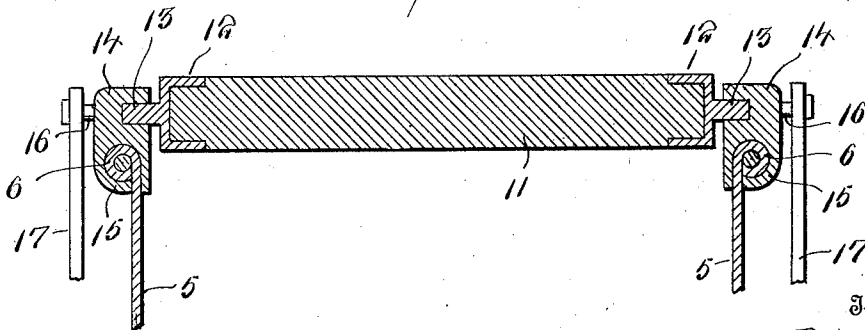


Fig. 5.

Fig. 6.



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UNITED STATES PATENT OFFICE.

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MOP-WRINGER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS PETERSON, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented new and useful Improvements in Mop-Wringers, of which the following is a specification.

The invention relates to the class of mop wringers.

10 The primary object of the invention is the provision of a pail in which a mop may be wrung, so as to relieve the same of any excess or surplus amount of water by means of rollers operated by foot leverage, the pail
15 being supported on casters whereby it may be conveyed in a convenient manner from one locality to another, thereby obviating the necessity of carrying the pail in the hand of a user, thus preventing the marring of a
20 floor.

Another object of the invention is the provision of a wringer in which there are arranged wringer rollers disposed in pairs transversely one pair in superposed relation
25 to the other, the rollers of one pair being stationary, while the rollers of the other pair being adapted to approach toward and retreat from each other for the proper wringing of a mop, so that water may be squeezed
30 therefrom and deposited within the pail.

With these and other objects in view, the invention consists of the construction, combination and arrangement of parts, as will be more fully described hereinafter, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

In the drawings: Figure 1 is a side elevation of a mop wringer constructed in accordance with the invention. Fig. 2 is a top plan view. Fig. 3 is a vertical longitudinal sectional view. Fig. 4 is a sectional view on the line 4-4 of Fig. 1. Fig. 5 is a fragmentary perspective view of the keeper rack. Fig. 6 is an enlarged fragmentary view of one roller and its sliding bearings, the latter being in section showing in detail its connection with the body of the pail.

Similar reference characters indicate corresponding parts throughout the several
50 views of the drawings.

Referring to the drawings by numerals, 5 designates the body of a pail for receiving water, the pail being preferably substantially square shaped and is constructed from metal such as galvanized iron, the upper end edge of the side walls of the pail being pro-

vided with the usual bead 6 forming a track for a purpose, as will be hereinafter more fully described.

Mounted transversely at the mouth edge
60 of the pail are rotatable rollers 7, the same being arranged in spaced relation to each other and are provided with reinforcing sleeves or caps 8, the rollers being preferably formed from hard wood, and these caps en-
65 gage with opposite reduced ends of the rollers. The caps or sleeves 8 are provided with stud journals 9 engaging in stationary bearings 10 suitably mounted in alining pairs upon the opposite sides of the pail contiguous the mouth edge thereof, whereby the rollers will serve for wringing a mop when being withdrawn from the pail for freeing it from an excess or surplus amount of water.

In superposed relation to the rollers 7 and
75 at right angles to them are rotatable wringer rollers 11 having reduced ends engaged by reinforcing sleeves or caps 12 provided with stud journals 13, the latter being mounted in slidable bearings 14 formed
80 with gripping ears 15 loosely embracing the beaded edge 6 of the pail, the bearings also being provided with laterally extending journal lugs 16 engaging swinging arms or levers 17 which latter are connected at
85 their free ends by means of pivots 18 to the adjacent ends of links 19, which have their opposite ends pivotally connected to links on a foot bail or yoke, as will be hereinafter more fully described. This foot bail or
90 yoke comprises a U-shaped frame 20 formed from a single piece of material, the extremities of which are connected to the opposite side walls of the pail by means of pivots 21, the frame being provided, spaced from the
95 pivoted end thereof, with outwardly extending pivot lugs 22, to which are connected upstanding links 22', having at their upper ends branches to form parallel ears 22'' which are pivoted, as at 23', to the links
100 19. The levers or arms 17 cross each other and are provided with elongated guide slots 23, in which are engaged the guide pins or lugs 24 fixed to and projecting outwardly laterally from opposite faces of the
105 side walls of the said pail, the lugs 24 being spaced a suitable distance from the upper edge of the body of the pail and by this arrangement, the rollers are adapted to move toward and away from each other on
110 movement of the foot bail or yoke for the wringing operation. This yoke or bail 20

is provided with a step or foot piece 25, the same being adapted for movement in the path of a locking rack comprising a bed-frame 26 provided with a toothed rack 27, the teeth of which being engaged by the step or foot piece 25 to hold the rollers 11 in adjusted relation when moved toward each other after downward pressure has been relieved on the foot yoke or bail.

Suitably mounted at the bottom of the pail near the corners thereof are fixed casters 28, the latter being rotatably supported in bearings 29 secured to angle bars 30, the latter being secured to the bottom of the pail for strengthening the same, and by means of these casters 28, the pail may be moved upon a floor from one locality to another.

Suitably attached to the mouth of the pail is a loop handle or bail 31, whereby the said pail may be lifted by hand and carried from one point to another when desired.

At each side of the pail 5 is arranged an inverted V-shaped resilient leaf spring member 32, one end of which is connected to one of the levers or arms 17, while its opposite end frictionally engages the other lever 17. Thus it will be seen that when the bail 20 is released, the said levers 17 at their lower ends will be spread apart, thereby causing the separation of the rollers 11 to bring the same into normal position spaced from each other.

By the arrangement of the wringer rollers, a mop may be wrung for squeezing therefrom excess or surplus water, the mop

being dipped into the pail in the ordinary well-known manner and withdrawn therefrom between the said wringer rollers when it is desired to wring the same.

What is claimed is:

1. The combination with a pail, of means slidably engaged with its mouth edge, wringer rollers journaled in the said means, a yoke having limbs pivoted to opposite sides of the pail, toggle connections between the limbs of the yoke and the said means, a keeper rack fixed to the pail, and a foot stirrup swingingly connected to the yoke and adapted for locking engagement with the said keeper rack when moved into the path of the same.

2. The combination with a pail, of slidable bearings connected with the upper edge thereof, rotatable wringer rollers journaled in said bearings, crossing levers connected with said slidable bearings, a foot yoke pivoted to the pail and having connection with said crossing levers, the said crossing levers being provided with elongated slots, guide lugs fixed to and projecting from the pail into the said slots, stationary bearings fixed to the pail, and spaced wringer rollers journaled in said stationary bearings beneath the movable rollers.

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

THOMAS PETERSON.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."