

(No Model.)

J. SEALEY.
MOP WRINGER.

No. 568,283.

Patented Sept. 22, 1896.

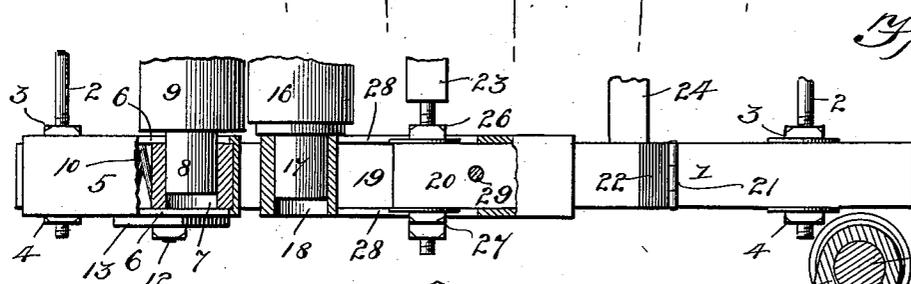
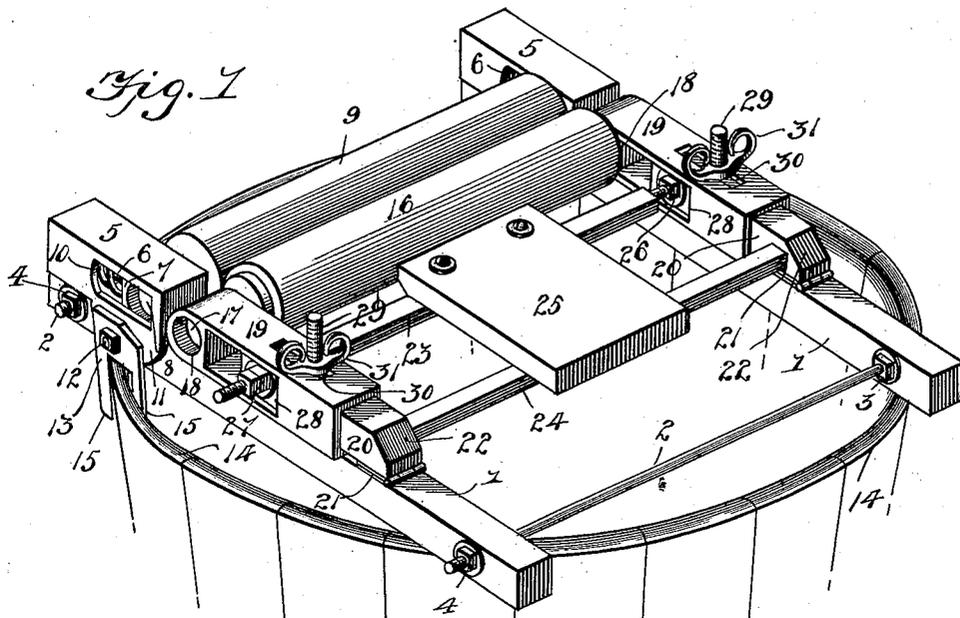


Fig. 4.

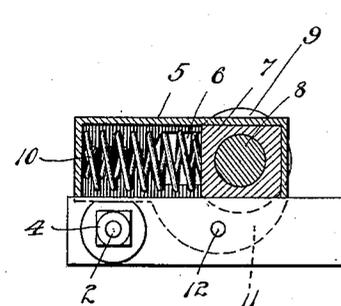
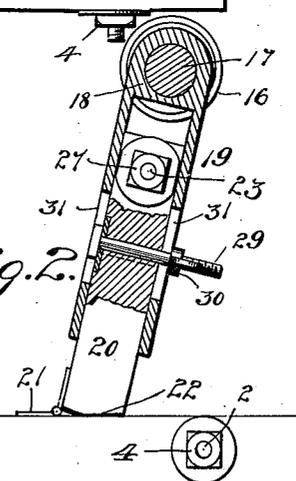


Fig. 2.



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Witnesses
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UNITED STATES PATENT OFFICE.

JAMES SEALEY, OF GREENVILLE, MICHIGAN.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 568,283, dated September 22, 1896.

Application filed January 17, 1896. Serial No. 575,874. (No model.)

To all whom it may concern:

Be it known that I, JAMES SEALEY, a citizen of the United States, residing at Greenville, in the county of Montcalm and State of Michigan, have invented a new and useful Mop-Wringer, of which the following is a specification.

My invention relates to mop-wringers, and has for its object to provide a simple, inexpensive, and efficient construction and arrangement of parts for attachment to a pail or receptacle and adapted to be detached with facility, the same being provided with means for adjustment to suit mops of different thicknesses.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a mop-wringer constructed in accordance with my invention applied in the operative position to a pail or receptacle. Fig. 2 is a side view, partly in section, of the same, showing the gate or movable section in its open position. Fig. 3 is a partial plan view, broken away to show the bearings. Fig. 4 is a detail view in perspective of one of the clutches engaging the edge of the receptacle.

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

The frame of the mop-wringer includes parallel side bars 1, connected at their extremities by transverse rods 2, which are terminally threaded and are engaged by inner and outer securing-nuts 3 and 4, respectively, to bear against the opposite surfaces of the side bars. Secured to the side bars near one end are the guide-boxes 5, having side slots 6, and mounted in said boxes are movable bearing-blocks 7, in which are mounted the trunnions 8 of a roller 9. Springs 10 are also arranged in said guide-boxes to hold the bearing-blocks, and hence the roller 9, in the normal position. The guide-boxes 5 are secured to the side bars by means of pendent ears 11, arranged in contact with opposite side surfaces of the bars and secured by bolts 12. Preferably secured by the same bolts 12 are clutches 13 for engaging the rim of a pail or

receptacle 14, said clutches having approximately parallel arms 15, provided with sharpened or reduced inner edges to engage, respectively, the inner and outer surfaces of the pail or receptacle. These arms are beveled, respectively, in opposite directions, one upon the outer and the other upon the inner side, as shown clearly in the drawings, to conform to the cylindrical construction of the pail.

Arranged to cooperate with the roller 9 is a roller 16, having trunnions 17, mounted in bearings 18, carried by guides 19, these guides being fitted for longitudinal adjustment upon side arms 20 of a gate or hinged member of the wringer. Said side arms of the gate are preferably hinged, as at 21, to the side bars 1 of the frame, and the hinged extremities of said side arms are beveled, as shown at 22, to bear upon the upper surfaces of the side bars 1 when the gate is in its open position, said open position being designed to facilitate the introduction of the mop into the pail or receptacle. The arms 20 are connected at their free ends by a pressure-bar 23 and near their hinged ends by a transverse rest 24, to the former of which is bolted the front end of a foot-rest 25, the rear end of said foot-rest bearing upon the rest-bar 24. Said pressure and rest bars are preferably flattened, as shown, to give a suitable bearing for the foot-rest, and the pressure-bar is reduced and threaded at its extremities to engage perforations in the free ends of the side arms 20, suitable adjusting and locking nuts 26 and 27 being fitted upon said threaded extremities of the pressure-bar to bear, respectively, against the inner and outer surfaces of the side arms.

The guides 19, which are fitted to slide upon the side arms of the gate, are tubular in construction, with side slots 28, through which the contiguous portions of the pressure-bar project, and said guide is held at the desired adjustment to hold the roller 16 in the desired position with relation to the roller 9 by means of bolts 29, also extending through slots 30 in the upper and lower sides of the guides and engaged by thumb-nuts 31.

In operation the gate is opened or thrown back to the position shown in Fig. 2 by grasping the pressure-bar, and the mop is intro-

duced into the pail or receptacle, after which the gate is closed, the handle of the mop being held out of the way of the roller 16, and the mop is withdrawn between the rollers, 5 while the roller 16 is held in place by pressure upon the foot-rest 25. By the means above described the roller 16 may be adjusted toward and from the roller 19 to suit the thickness of the mop and cause the desired pressure thereon. 10

The movable roller, which is carried by the swinging gate, is mounted for upward movement from its normal position contiguous to and in the same horizontal plane with the stationary roller, whereby it is held in said 15 normal position by gravity to avoid the necessity, under ordinary circumstances or except when excessive pressure is to be applied to the mop, of holding it in such position by 20 means of foot-pressure.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this 25 invention.

Having described my invention, what I claim is—

1. A mop-wringer having a frame, a roller mounted in yielding bearings upon the frame, 30 a swinging gate mounted on the frame, a second roller mounted upon the swinging gate to cooperate with the first-named roller and normally held by gravity in a position contiguous to and in the plane of the first-named 35 roller, and a foot-rest on the swinging gate, the downward movement of the second roller being limited to prevent the depression thereof below the plane of the first-named roller, substantially as specified.

2. A mop-wringer having a frame, a yielding spring-pressed roller mounted upon the 40 the frame, a swinging gate, a second roller mounted upon said gate, and means for adjusting said second roller transversely upon 45 the frame toward and from the first-named roller and locking it at the desired adjustment, substantially as specified.

3. A mop-wringer having a frame, a roller mounted in sliding bearings upon the frame,

pressure-springs for said bearings arranged 50 in guide-boxes to allow yielding movement of the roller in one direction, a swinging gate mounted upon the frame, a second roller mounted upon said gate, and means for adjusting said second roller toward and from 55 the first-named roller and securing it at the desired adjustment, substantially as specified.

4. A mop-wringer having a frame, a roller mounted upon the frame, a swinging gate, adjustable guides mounted upon the gate, means 60 for locking said guides at the desired adjustment, and a second roller mounted in bearings on said guides and adapted to be adjusted therewith toward and from the first-named 65 roller, substantially as specified.

5. In a mop-wringer, the combination with a frame and a roller mounted thereon, of a swinging gate hinged to the frame and having 70 parallel side arms, tubular guides fitted to slide upon said side arms, locking devices for securing said guides at the desired adjustment, a second roller mounted in bearings on 75 the guides and adapted to be adjusted therewith toward and from the first-named roller, and a foot-rest on said gate, substantially as specified.

6. In a mop-wringer, the combination with a frame and a roller mounted thereon, of a swinging gate hinged to the frame and having 80 parallel side arms, parallel pressure and rest bars connecting said side arms, means for adjusting the pressure-bar, a foot-rest carried 85 by the pressure and rest bars, guides arranged to slide upon the side arms of the swinging gate, locking devices consisting of bolts and thumb-nuts for securing said guides 90 at the desired adjustment, and a second roller mounted in bearings on the guide and adapted to be adjusted therewith toward and from the first-named roller, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES SEALEY.

Witnesses:

COLLINS THURBER,
CLARK TERRY.