No. 659,256. Patented Oct. 9, 1900.

E. J. PECK.

MOP WRINGER.

(Application filed July 13, 1900.)

(No Model.)

Fig. 1.

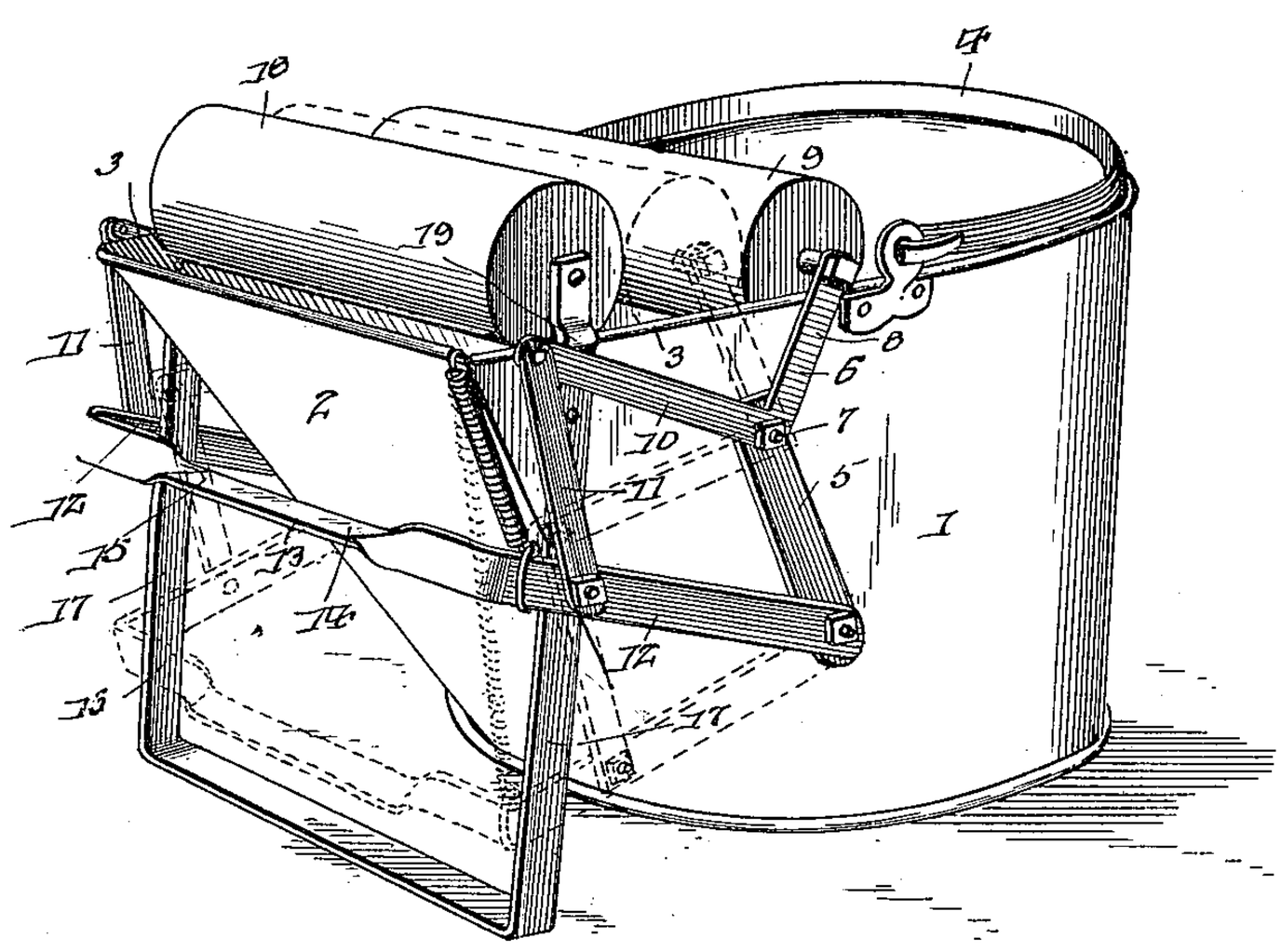
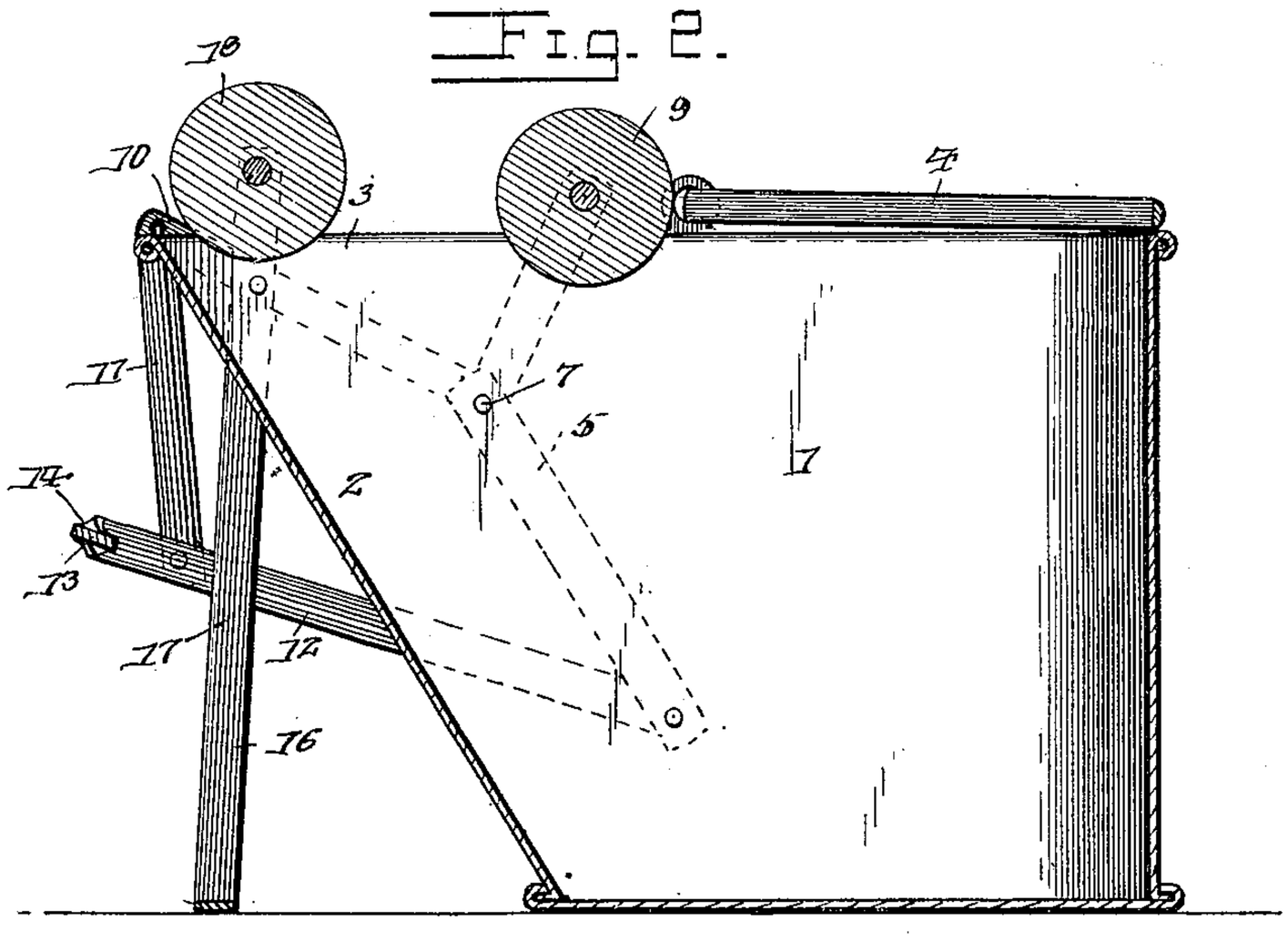


Fig. 2.



Witnesses
F. C. Alden.
Chas. S. Hoyer.

E. J. Peck. Inventor
by Church & Co.
Attorneys

UNITED STATES PATENT OFFICE.

EDWARD J. PECK, OF HANNIBAL, MISSOURI.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 659,256, dated October 9, 1900.

Application filed July 13, 1900. Serial No. 23,501. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. PECK, a citizen of the United States, residing at Hannibal, in the county of Marion and State of Missouri, have invented a new and useful Mop-Wringer, of which the following is a specification.

This invention relates to mop-wringers; and the object of the same is to provide simple and effective means for operating wringing-rollers by foot power or pressure and permit the hands of the operator to be free to manipulate the mop, whereby the use of a mop is rendered cleanly, and the compression thereof to wholly or partially expunge the water thereof may be carried on in a positive manner, the mechanism for the purpose as comtemplated by the improvement being strong and durable and comparatively inexpensive.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a mop-wringer embodying the features of the invention and shown in two positions in full and dotted lines. Fig. 2 is a longitudinal vertical section of the same.

Similar numerals of reference are employed to indicate corresponding parts in both views.

The numeral 1 designates a pail or receptacle, having a lateral projection or spout 2 with upper parallel side edges 3, the said pail and the parts carried thereby being transportable by means of a bail 4. On opposite sides of the lateral projection or spout 2 a supporting-bar or reinforce-bearing 5 is secured, both bars or bearings being arranged in substantially-upright positions and slightly inclined toward the outer end of the projection or spout. To the upper end of each bar or bearing 5 an elbow or bell-crank lever 6 is pivotally applied through the medium of a bolt or pin 7, passing through or into the angle of the said lever and bar or bearing, and in the short arms 8 of the levers the opposite journals of a wringing-roller 9 are rotatably fitted, the said roller being shiftable in and longitudinally of the projection or spout 2 in the upper portion of the latter. To the free end of the longer arm 10 of the said lever, in each instance, the upper end of a bar 11 is pivotally connected and also similarly attached at its lower end to the right-angular member 12 of a treadle 13, having a foot-pressure-receiving surface 14 at an intermediate point in its outer transverse end member 15. Both of the right-angular members 12 extend over the sides of the projection or spout 2 and have their free ends pivoted to the lower portions of the bars or reinforces 5.

A rectangular foot 16 is arranged at an outward incline in relation to and in advance of the outer portion of the spout or projection 2, the said foot being open at one end and having the side bars 17 rigidly fastened to the sides of the projection or spout at the upper portion of the latter. The said side bars are extended above the upper edge of the spout or projection to receive the bearings of the wringing-roller 18, which is free to revolve, but immovable in a longitudinal direction, and each side bar also has a transversely-extending outstruck corrugation 19 to engage the rim of the projection or spout 2, thereby making the use of one fastening only necessary for acquiring a rigid securement of the side bars in each instance and avoid straining the sheet metal of which the pail or receptacle is formed. The use of the bars or reinforce-bearings 5 also take the strain of the parts connected thereto and remove the same from the pail or receptacle and avoid loose-wearing characteristics of the devices in engagement therewith. The same bolts, pins, or rivets which serve as fulcrums for the bell-crank levers 6 and the members 12 of the treadle also provide means for fastening the bars or bearings 5 to the sides of the projection or spout 2, and it will be observed that all the devices secured to the said portion of the pail are particularly arranged to avoid weakening the latter. The side bars 17 of the foot 16 are located between the right-angular members 12 of the treadle and the sides of the projection or spout, and the outward inclination of the foot prevents tilting or displacement of the pail or receptacle during the operation of the mechanism. To restore the parts to normal position after they have been operated by a depression of the treadle, a spring 20 is attached at opposite extremities, respectively, to a portion of the

treadle and the rim of the projection or spout at the front of the latter.

In the operation of the improved device the mop is disposed between the wringing-rollers 9 and 18 while in the position shown by Fig. 1, and the operator then places his foot on the foot-pressure surface 14 of the treadle 13 and bears down upon the same. When the treadle is depressed, the elbow or angle levers 6 are moved, the bars 11 pulling down on the longer arms of said levers and throwing the shorter arms upward and forward, as shown in dotted lines. The mop will be thereby tightly compressed, but is free to be drawn through or between the rollers by the application of the proper upward-drawing force, and thus wring the same. The quantity of moisture retained in the mop will depend entirely upon the degree of compression of the roller 9 relatively to the roller 18, and which is regulable by varying the depression of the treadle. As soon as the treadle is released the spring 20 will restore the parts to normal position and the rollers will be again ready for a subsequent similar wringing operation.

Changes in the form, size, proportions, and minor details may be resorted to without departing from the principle of the invention.

Having thus described the invention, what is claimed as new is—

1. In a mop-wringer, the combination of a pail or receptacle having a projection or spout with upper parallel side portions, an outwardly-inclined leg having its resting portion in advance of the spout and its side bars rigidly secured to the sides of the spout or projection and extended above the rim of the latter, a wringing-roller journaled in the upper ends of the said side bars and having a fixed plane of rotation, a longitudinally-shiftable wringing-roller movable to and from the first-named roller, both rollers having their ends between the planes of the sides of the spout and partially depending between the latter to serve as a guiding means in the event of wear and to accurately retain the mop within the confines of the spout during the wringing operation, and means for operating the swinging roller.

2. In a mop-wringer, the combination of a pail or receptacle having a projection or spout with upper parallel side portions, an outwardly-inclined leg having its rest portion in advance of the projection or spout and its side bars rigidly secured to the sides of the latter by a single fastening passed through each bar, the upper extremity of each bar having a transversely-extending corrugation to fit over the rim of the pail to prevent movement of the same and the use of a single fastening therethrough, bars or reinforce-bearings secured to the opposite sides of the projection or spout, bell-crank levers attached to the upper portions of the bars or bearings and having a wringing-roller rotatably mounted in their shorter arms and shiftable thereby in a longitudinal direction, a wringing-roller having bearing in the upper extremities of the side bars of the leg and having a fixed plane of rotation, both rollers being confined between and partially depending below the upper portions of the spout to provide guiding means for said rollers to retain them in place in the event of wear and to accurately confine the mop between the said side portions of the spout, a treadle having its angular members pivoted to the lower portions of the bars or bearings, and connecting devices between the outer ends of the longer arms of the bell-crank levers and the angular members of the treadle.

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

EDWARD J. PECK.

Witnesses:
W. H. C. NASH,
J. A. SYDNEY.