(No Model.)

A. CATHAN.

MOP WRINGER.

No. 488,984. Patented Jan. 3, 1893.

FIG. 1.

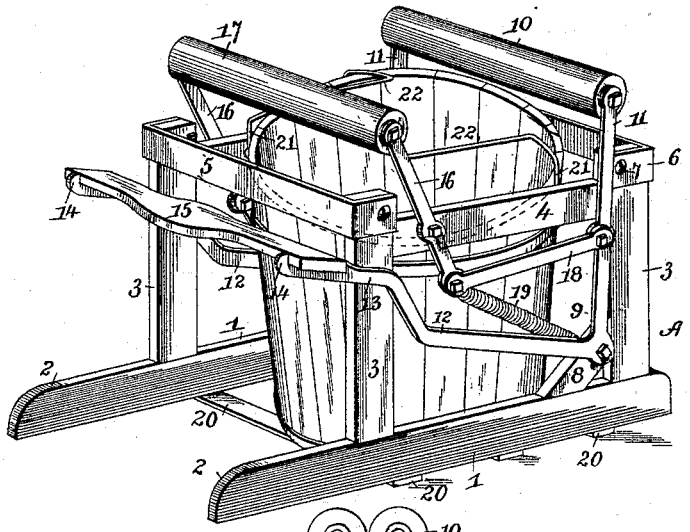


FIG. 2.

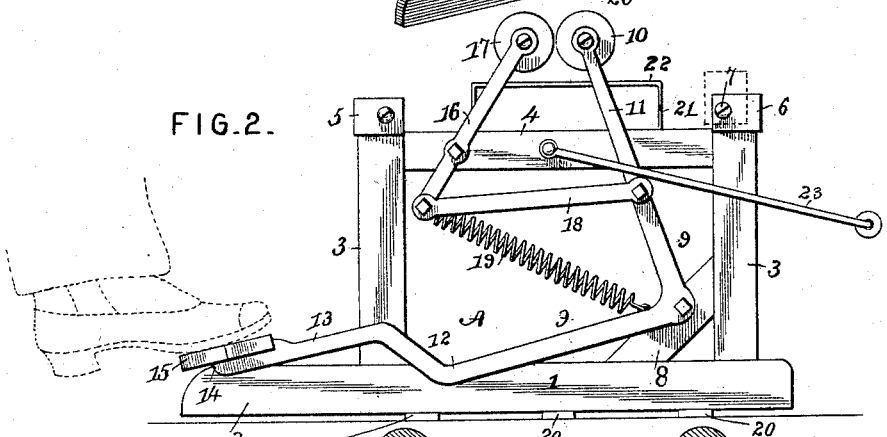
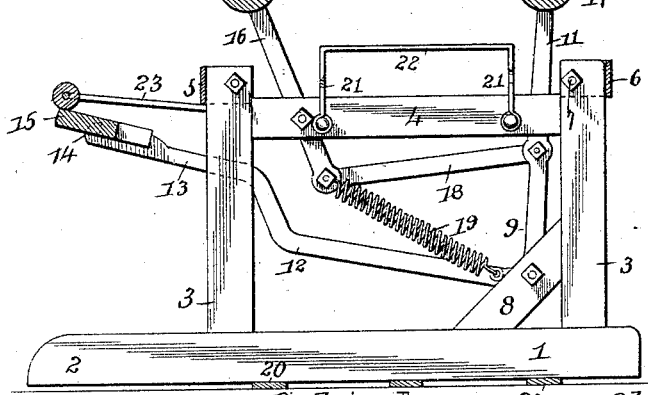


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

ALONZO CATHAN, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO THOMAS S. GERHARD, OF SAME PLACE.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 488,984, dated January 3, 1893.

Application filed March 19, 1892. Serial No. 425,615. (No model.)

To all whom it may concern:

Be it known that I, ALONZO CATHAN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Mop-Wringer, of which the following is a specification.

This invention relates to certain new and useful improvements in mop-wringers; and consists in the construction and arrangement of the parts as will be more fully hereinafter described and claimed.

The object of the invention is to provide a mop-wringer which in its entirety is convenient and serviceable, the parts strong and durable, and simple and effective in their construction and operation, and if broken or misplaced they can be readily rearranged and have other parts substituted therefor.

In the drawings—Figure 1 is a perspective view of a mop-wringer embodying the invention and showing a pail in connection therewith. Fig. 2 is a side elevation thereof, showing the rollers and connecting mechanism in different position from that shown by Fig. 1. Fig. 3 is a longitudinal vertical section of the device as represented by Fig. 1.

Referring to the drawings, A designates the frame, consisting of base-strips 1, which are extended rearward or from one end of the said frame to provide a stable support for the device and prevent the same from tipping over. Rising from said strips 1 are uprights 3, connected by top cross-strips 4, below the ends of said uprights 3, and to said projecting ends of the said uprights are attached metallic braces or irons 5 and 6, which extend across the machine. The brace or iron 6 is pivotally connected at its ends to the upright so that it may be turned up or down, as shown in dotted lines in the drawings, for a purpose which will be hereinafter set forth. The other brace or iron 5 is stationarily secured in position, and each of the ends of said braces or irons is bent at an angle and bears on the outer faces of the said uprights 3. The pivot-bolts 7 of the brace or iron 6 are situated nearer the inner edges of said uprights 3, so that when the said brace or iron is turned up as shown in dotted lines, it will be thrown up over the top of the said uprights.

Between portions of the uprights 3 and the strips 1 are short inclined braces 8, to which are pivotally connected bell-crank levers 9, having a roller 10 journaled in the upper ends of the arms 11 of the same. The other arms, 12, of said levers are bent or projected upwardly as at 13 and formed with lips 14 at their ends against which is seated a footboard 15, bearing on said parts 13 of the arms 12 of said levers 9.

Secured to the sides of the frame, by suitable pivot-bolts, are levers 16, having a roller 17 journaled in the upper ends thereof. The lower ends of said levers 16 are connected by a link 18 with the arm 11 of each of the bell-crank levers 9, and on the rear side of the point of connection of said links 18 with the levers 16 are attached the ends of retractile springs 19, the opposite ends of said springs being secured to the braces 8 or to other parts of the frame, as may be desired.

Running crosswise of the frame, and connected to the lower portions of the strips 1, are strips 20, of suitable material, preferably metal strips, which form a base-rest or seat for a pail which is inserted within the frame as will be hereinafter more fully set forth. On the inner side of the cross-strips 4, are secured wire guards 21, whose upper ends 22 are bent over toward each other and form means of embracing the rim of the pail when within the frame, and may be used also for relieving the mop of a surplus amount of water by dragging the same thereover.

To insert the pail within the frame A, the pivoted brace or iron 6 is turned up over the ends of the uprights 3 to which it is connected. The pail is then seated in position on the cross-strips 20, and said brace or iron 6 is turned down in position as shown in full lines, to thereby removably hold the pail within the frame. When the pail is in position within the frame, the wire guards 21 extend over the rim thereof to assist in holding the same in position, and also serve for a purpose hereinbefore mentioned.

Without operating the rollers 10 and 17 for wringing purposes, the mop may be placed into and withdrawn from the pail as may be desired; but when it is desired to use the rollers 10 and 17 for wringing purposes, the foot is placed upon the board 15, which de-

presses the arms 12 of the levers 9 and throws the arms 11 over toward the center of the frame, and at the same, as said arms 11 move they shove on the links 18, which push the lower ends of the levers 16 outward and throw the roller 17 inward against the roller 10, or adjacent thereto. The said movement of the levers 16 is of course resisted by the springs 19 connected thereto, and as the foot is removed from the board 15, the said springs 19 automatically return the parts to the position shown by Fig. 1.

To assist in conveying the wringer from place to place, a bail 23 is secured to the top cross-strips 4, thereby making it convenient for ready removal from one position to another. It will be observed that the extensions 2 of the strips 1 are located at the same end of the wringer as the foot-board 15, or at such a point where the greatest pressure is applied, to avoid tipping over or tilting of the frame and the pail carried thereby.

An advantage of this wringer is that the pail is not stationary and can be removed when desired without taking the machine apart; also, the simplicity of the structure of the several parts of the device, and their ready attachment and detachment makes it convenient to replace any of the parts should they become broken or worn out.

What is claimed as new is—

1. In a mop-wringer, the combination of the frame adapted to have a pail seated therein, bell-crank levers located on opposite sides of the frame and having the lower arms thereof connected by a foot board and the vertical arms of the same carrying a roller, other levers pivotally secured to the opposite sides of the upper part of the frame carrying a front roller and having their lower ends free, links connecting said lower free ends of said latter levers and the vertical arms of the bell-crank levers, and springs secured to the frame at the rear and to the pivotal points of the levers carrying the front roller with the links where by through the depression of the foot board the rollers are simultaneously drawn toward the center of the frame, substantially as described.

2. In a mop-wringer, the combination of the frame having the braces or irons connected to the upper parts of the uprights thereof, one of said braces or irons being hinged as set forth, and cross-strips secured to the bottom of said frame, substantially as described.

3. In a mop-wringer, the combination of the frame having braces or irons connected to the upper parts of the uprights thereof, one of said braces or irons being hinged as set forth, cross-strips secured to the lower part of said frame, and wire guards connected to opposite sides of the frame and opposingly situated, substantially as described.

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

ALONZO CATHAN.

Witnesses:
ABNER SLUTZ,
FREDERICK H. SMITH.