

W. BOSWELL.
Mop-Wringer.

No. 217,675.

Patented July 22, 1879.

Fig. 1

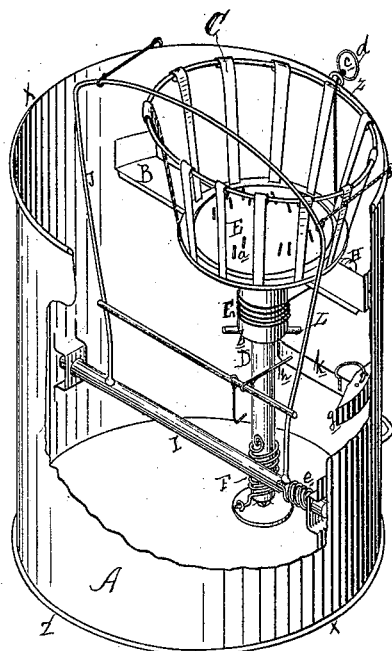


Fig. 2

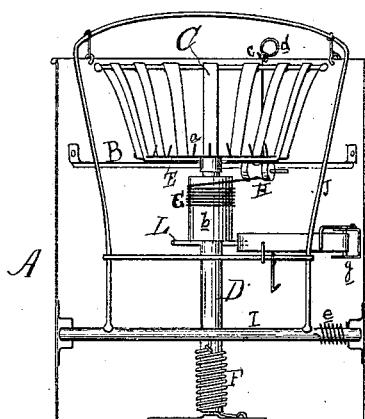
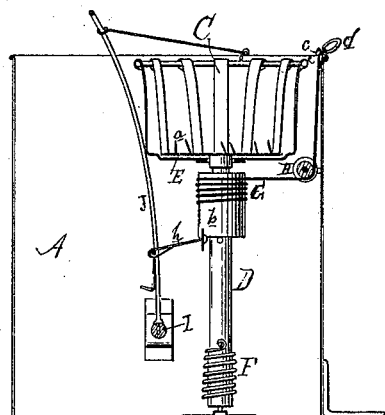


Fig. 3



Attest:

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WILLIAM BOSWELL, OF FLINT, MICHIGAN.

IMPROVEMENT IN MOP-WRINGERS.

Specification forming part of Letters Patent No. **217,675**, dated July 22, 1879; application filed October 8, 1878.

To all whom it may concern:

Be it known that I, WILLIAM BOSWELL, of Flint, in the county of Genesee and State of Michigan, have invented an Improvement in Mop-Wringers, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of devices for wringing mops; and the invention consists in the peculiar construction and arrangement of the various parts to accomplish the desired results, all as more fully hereinafter set forth.

Referring to the drawings, Figure 1 is a perspective view with a portion of the pail in which my device is arranged broken away. Fig. 2 is a vertical section on the line $x x$. Fig. 3 is a similar view on the line $z z$.

In the accompanying drawings, which form a part of this specification, A represents a pail or other suitable vessel, within which and near one side is secured a bar, B, to the top of which is secured the basket C. D is a vertical shaft, the lower end of which is placed in proper bearings in the bottom of the pail, while the upper end passes through and finds bearings in the bar B. Upon the upper end of this shaft D is rigidly secured a plate, E, within the basket, from the upper face of which project the inclined spurs or teeth a .

Coiled around the base of the shaft D is a spring, F, one end of which is secured to the shaft, and the other end to the bottom of the pail. Near the upper end of the shaft it is enlarged, as shown at b , around which enlargement or drum is wound a cord, G, one end of which is secured to the shaft, while the free end is carried under and back of the grooved pulley H, which is properly journaled in bearings secured to the side of the pail, and thence up through the ring c , having upon its outer end a ring, d , or other device, to serve as a handle and to prevent the cord from being drawn through the ring c .

A shaft, I, is journaled in proper bearings

across the pail, near its bottom, having coiled upon one end a spring, e , with one end secured to the shaft, and the opposite end to the side of the pail or the bearings of the shaft. Rising from this shaft is a wire frame, J, which is connected by means of a rod, h , to a spring-arm, k , one end of which is journaled in a bracket-bearing, g , secured to the side of the pail.

In practice the mop is placed within the cage or basket C, and the cord G is pulled up, which causes the shaft D and plate E to revolve. The teeth in the plate catch the mop-cloth and twist the same, thus wringing the water from it. As the cord is released the coil-spring F causes the shaft and plate to assume their original position and release the mop.

In case a broom is being used and it is desired to whip or knock off from it the greater portion of the water, the cord is pulled up as before, while a rod, L, passing through the shaft D, comes in contact with the free end of the spring-arm k , and draws it back, together with the frame J, and as the spring-arm is released the frame J is caused to fly back by the action of the spring upon the shaft and knock against the broom, which is placed in the pail in front of the frame.

What I claim as my invention is—

1. In combination with a pail or other vessel, the basket C, the rotating plate E, provided with upwardly-projecting spurs a , mounted upon a shaft, D, operated by the cord G, and spring F, substantially as and for the purposes set forth.

2. In combination with the shaft D of a mop-wringing device, operated substantially as described, the rod L, spring-arm K, the rock-shaft I, spring e , and knocker-frame J, substantially as and for the purposes set forth.

WILLIAM BOSWELL.

Witnesses:

CHAS. J. HUNT,
H. S. SPRAGUE.