J. L. SANDFORD & W. P. SAMPSON.

Mop Holder and Wringer.

No. 203,378. Patented May 7, 1878.

Fig. 1.

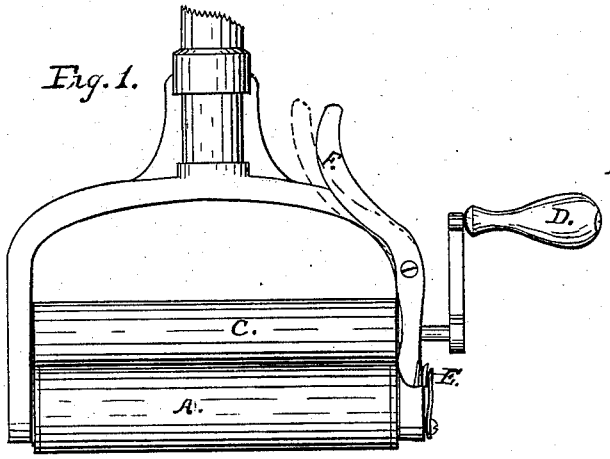


Fig. 2.

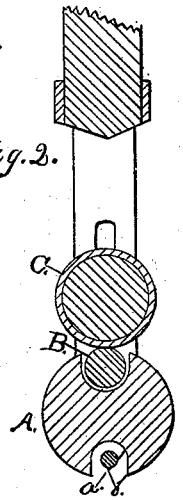


Fig. 3.

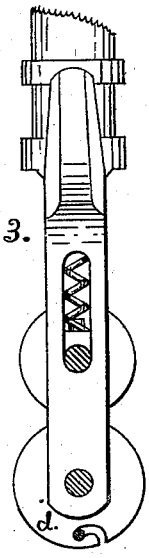
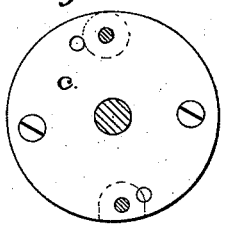


Fig. 4.



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UNITED STATES PATENT OFFICE.

JAMES L. SANDFORD AND WILLIAM P. SAMPSON, OF BINGHAMTON, N. Y.

IMPROVEMENT IN MOP HOLDER AND WRINGER.

Specification forming part of Letters Patent No. **203,378**, dated May 7, 1878; application filed January 10, 1878.

To all whom it may concern:

Be it known that we, JAMES L. SANDFORD and WILLIAM P. SAMPSON, of Binghamton, in the county of Broome and State of New York, have invented a new and useful Improvement in Mops, of which the following is a specification, reference being had to the accompanying drawing.

This invention relates to a mop and wringer combined; and consists in the combination and arrangement of rollers journaled in the frame of the mop-head, the roller to which the mop is attached carrying within itself a supplementary roller, which engages with a roller having a flexible surface in such a manner that it may be operated with a crank, and the mop effectually and expeditiously wrung.

The peculiar construction and operation of the device will hereinafter be fully explained.

Figure 1 in the accompanying drawing is a front elevation. Fig. 2 is a vertical transverse section. Fig. 3 is an edge view of the mop-head, and Fig. 4 an end view of the mop-roller detached.

A is the mop-roller, which has a longitudinal groove, *a*, for the reception of the folded end of the mop-cloth, which is secured in place by a pin, *b*, passing between the folds. One end of this pin enters a hole in the end plate *c* on the roller A, and on the other end it passes through an opening to its bearing in the end plate *d*. On the opposite side of said roller is a longitudinal recess for the supplementary roller B, which is pivoted and hung in the end plates *c* and *d*, so that its face shall be flush with that of the roller A, which is suitably journaled in the mop-frame, as shown in the drawings.

C is the wringing-roller, which is faced with rubber and journaled on movable bearings working in vertical slots against spiral springs, in the ordinary manner. This roller engages with the supplementary roller B, and is operated by the crank D. The mop-roller A is secured in position for the use of the mop by a spring and detent-pin, E, which enters a hole in the end plate *c*, and is detached for wringing by the latch F on the side of the frame.

The mop-cloth is attached to the roller A by laying it over and across the groove *a* and applying the pin *b*, as before described, when the mop is ready for operation.

The wringing is accomplished by holding the mop over the pail, when the latch F is used to withdraw the stop-pin E. The crank D is then turned, which will give the roller A one revolution. This brings the supplementary roller in contact with the face of the wringing-roller C. The spring stop-pin then enters the hole in the end plate *c*, and prevents further movement of the roller A, while the rollers B and C are actuated to carry the mop-cloth through by means of the crank D.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The supplementary roller B, working within the mop-roller A, substantially as described.

2. The combination of the mop-roller A and supplementary roller B, wringing-roller C, crank D, stop-pin E, and latch F, all constructed substantially as herein described, for the purpose set forth.

JAMES L. SANDFORD.
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