J. L. BOYDEN.

Combined Mops and Mop-Wringers.

No. 135,400. Patented Feb. 4, 1873.

Fig. 1.

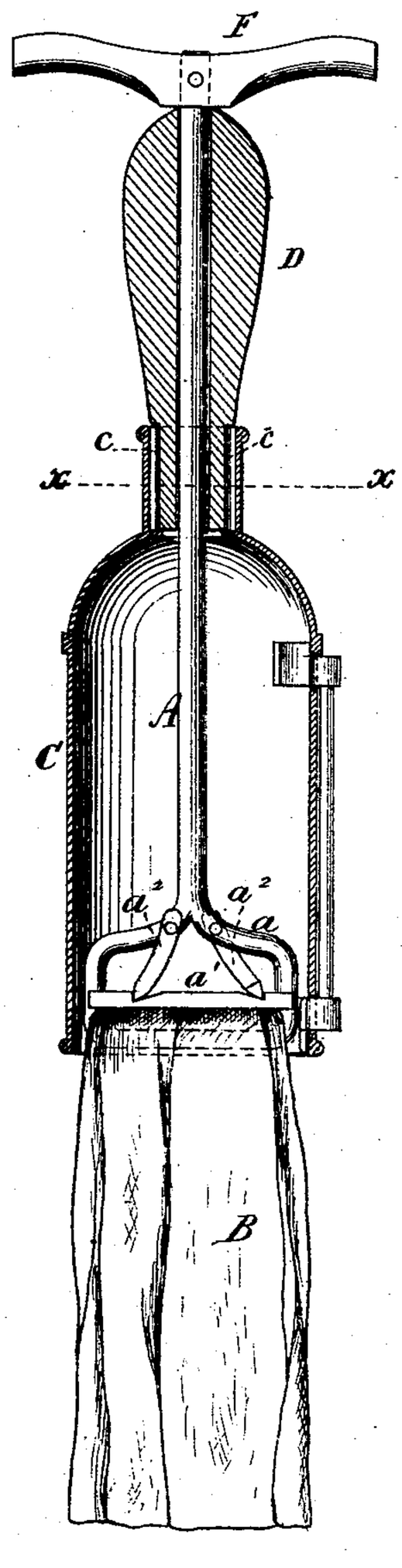


Fig. 2.

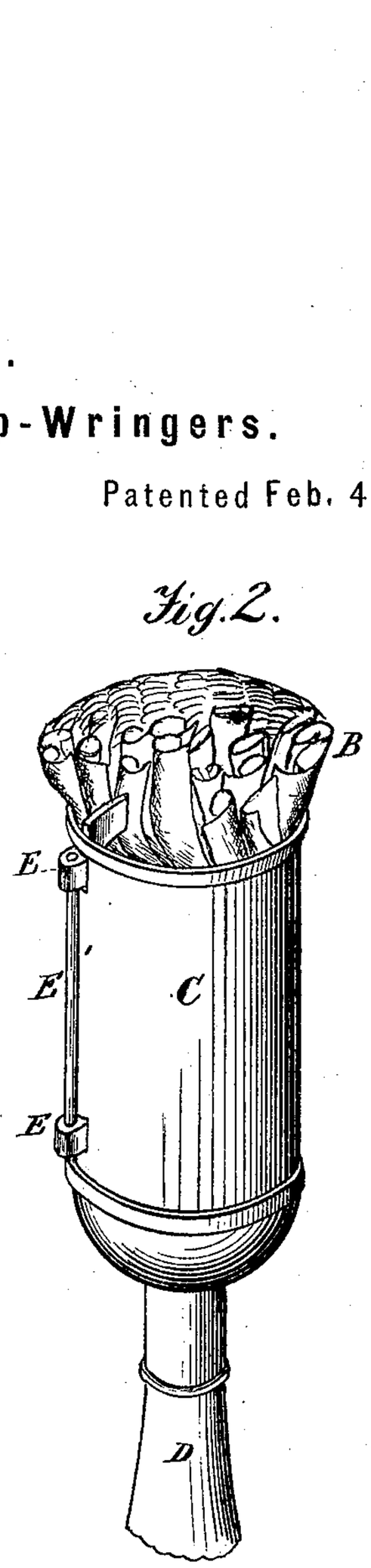


Fig. 3.

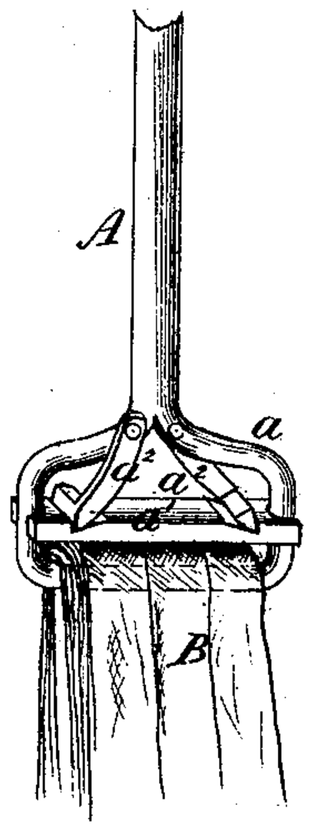


Fig. 4.

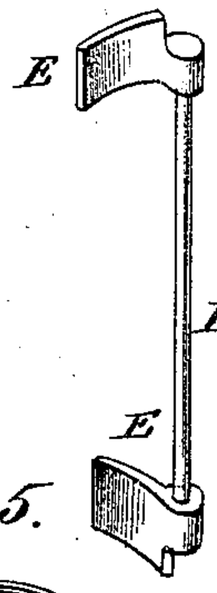
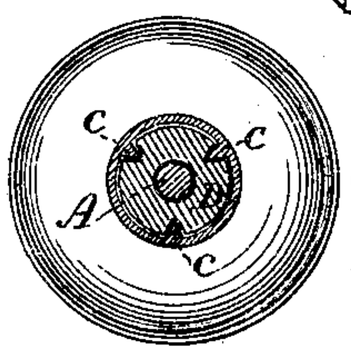


Fig. 5.



Witnesses.
A. Ruppert.
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Attys

UNITED STATES PATENT OFFICE.

JAMES L. BOYDEN, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN COMBINED MOPS AND MOP-WRINGERS.

Specification forming part of Letters Patent No. **135,400**, dated February 4, 1873.

To all whom it may concern:

Be it known that I, JAMES L. BOYDEN, residing in Bridgeport, county of Fairfield and State of Connecticut, have invented an Improvement in Combined Mop and Mop-Wringer, of which the following is a specification:

In the annexed drawing, Figure 1 represents a view of my improved mop partly in section and partly in elevation. Fig. 2 illustrates a perspective view of the same in an inverted position, with a portion of the handle removed or broken away. Fig. 3 is a perspective view of the inner sliding handle, to which is attached the mop-brush. Fig. 4 is a like view of the wringers detached from the mop-case; and Fig. 5 is a transverse section taken through the dotted line *x x* of Fig. 1.

Identical parts in the several figures are designated by corresponding letters of reference.

This invention has reference to an improved mop and mop-wringer; and it consists of a cylinder or case, the neck of which is supplied with angular projections, and receives a handle having a hole through it, and the enlarged part of which is provided with pivoted plates having their bearings in opposite directions upon the mop-brush; and, lastly, of the combination of the above-mentioned devices with certain other devices, substantially as hereinafter more fully set forth, and specifically pointed out in the claims.

To enable others to make and use my invention, I will proceed to describe it.

In the accompanying drawing, A refers to a metallic rod, the lower end of which is provided with a loop, *a*, which receives and holds the mop-brush B. a^1 refers to a vertically-adjustable bar or plate, the ends of which are recessed in such a manner as to receive the side or vertical arms of the loop *a*, as plainly shown in Fig. 3. It is between this plate and the lower or horizontal part of the loop *a* that the mop-brush is held or clamped. a^2 a^2 refer to two bars, pivoted to opposite sides of the upper part of the loop *a*, and supplied or constructed at their lower ends with right-angular bars, beveled as shown in Figs. 1 and 3, and which fit into notches cut in the upper side of the plate a^1, for the purpose of firmly holding down in place the said plate upon the mop-brush. C refers to a cylinder or case, which may be, if desired, made of wire-gauze or other like material, to expedite the escape of the water being wrung from the mop. The neck of this cylinder, which receives the vertical handle D, is supplied, upon its inner circumference, with vertical angular projections *c c*, which enter and fit corresponding grooves in the said handle, whereby the latter may be firmly held in the said neck of the cylinder. The handle D has a vertical aperture, to allow of the passage through it of the rod A. The body or enlarged part of the cylinder C is supplied with holes, which allow of the passage through the wall of said cylinder of the annular portions of the plates or pressers E, having eyes for the reception of the ends of the rod E′, which are fastened to the said plates or pressers, and located upon the outside of the cylinder.

By this arrangement of the said plates or pressers and the rod E′, the former are pivoted to the case C. The plates or pressers E are so attached to the rod E′ as that, when the lower one of the same is caught by, and does the process of squeezing or wringing, the mop-brush, the upper one thereof will bear against the case C, and thus enable the former one to be rigidly held in the position above ascribed to it.

F is a horizontal handle, fitted to the rod A, and suitably secured thereto. When this handle is grasped and elevated, the mop-brush will be drawn into the case, and brought in contact with the lower one of the plates or pressers E, in readiness to be squeezed, the squeezing or wringing process being performed by simply revolving the said handle.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the case C, with the plates or pressers E and the rod E′, substantially as and for the purpose specified.

2. The case C, the neck of which is supplied with the angular projections *c c*, as and for the purpose described.

3. The combination, with a mop, of the case or cover C, which receives and holds the

mop-brush during the wringing of the latter, for the purpose of assisting in expelling the water therefrom, substantially as shown and described.

4. The rod A, mop-brush B, case C with the plates E and rod E′, hollow handle D, and handle F, combined substantially as and for purpose specified.

In testimony whereof I have hereunto signed my name this 13th day of July, A. D. 1872, in the presence of two subscribing witnesses.

JAMES LUCIUS BOYDEN.

Witnesses:

I. W. SMITH,

G. B. BOYDEN.