(No Model.)

W. F. ULMAN.

MOP WRINGER.

No. 502,448. Patented Aug. 1, 1893.

Fig: 1.

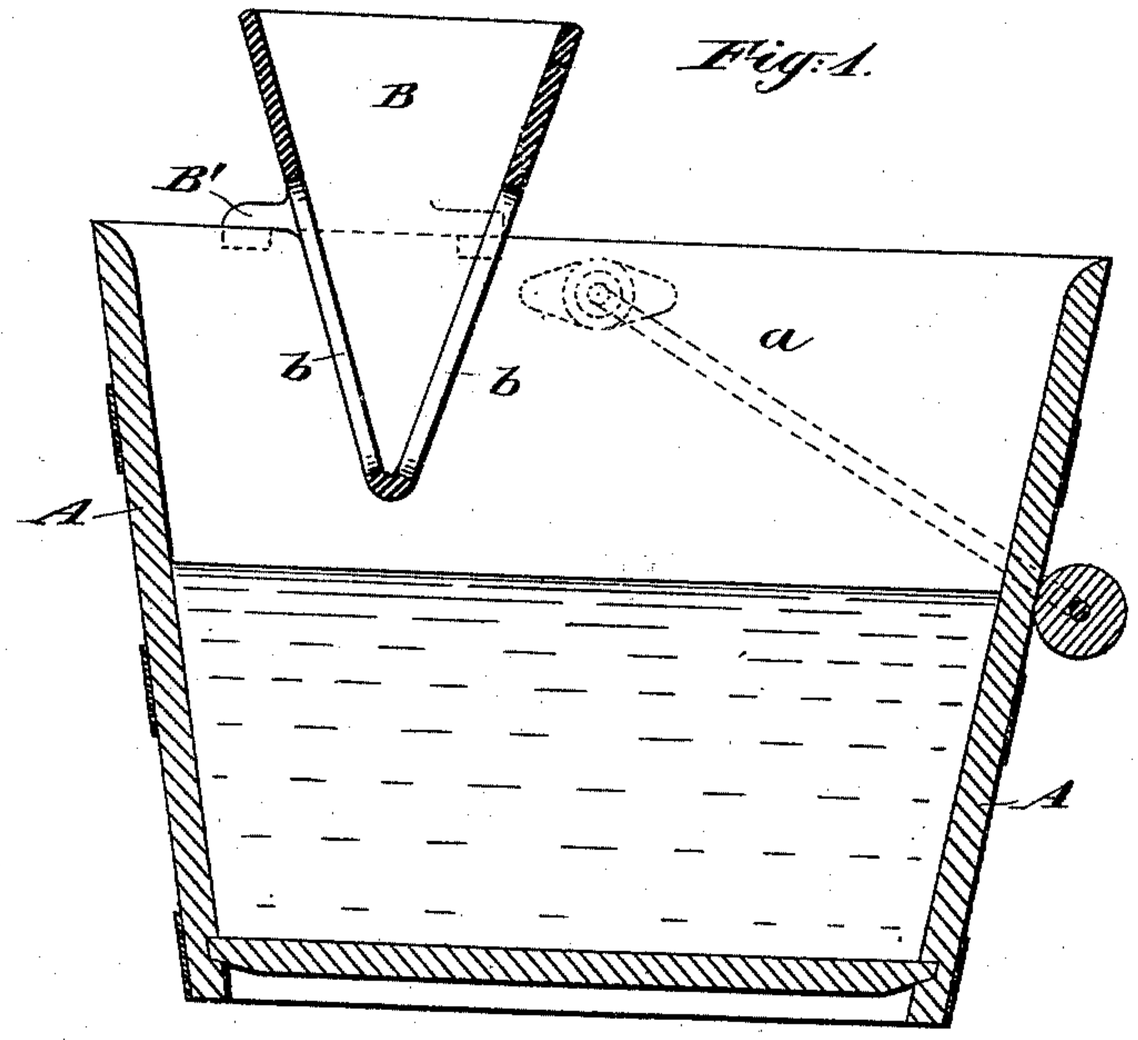
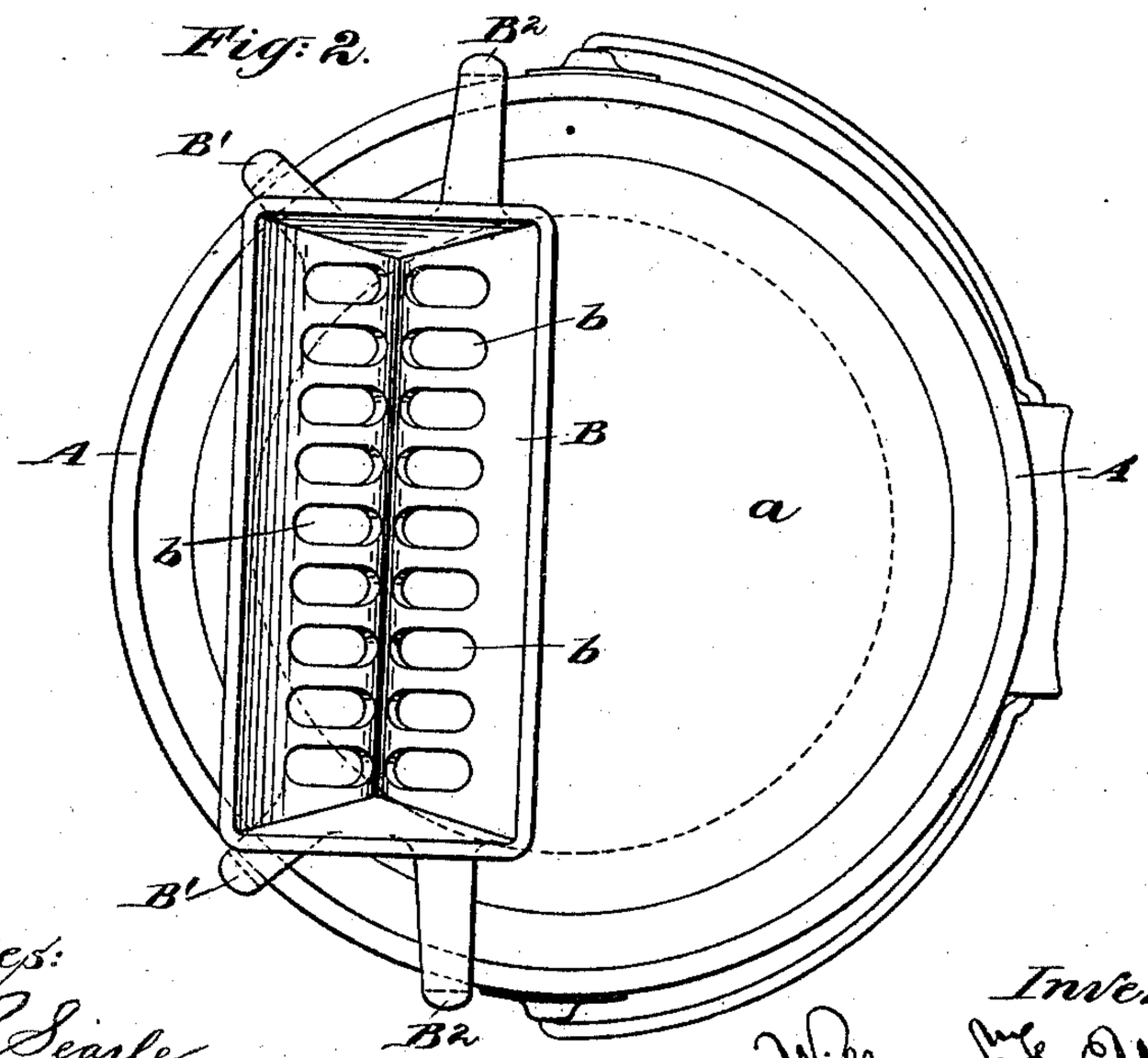


Fig: 2.



Witnesses:
Charles R. Searle,
M. L. Boyle.

Inventor:
William F. Ulman
by his attorney
Thomas Drew Stetson

UNITED STATES PATENT OFFICE.

WILLIAM F. ULMAN, OF NEW YORK, N. Y.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 502,448, dated August 1, 1893.

Application filed November 1, 1892. Serial No. 450,616. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. ULMAN, a citizen of the United States, residing in the city and county of New York, in the State of New York, have invented a certain new and useful Improvement in Mop-Wringers, of which the following is a specification.

My mop-wringer is a removable attachment, constituting a strong and convenient strainer, V-shaped in cross-section, to apply on and only partly cover a pail, which latter should be partly filled with water, and in which the mop is dipped as required. The apertures are preferably in the form of slots extending up and down a considerable distance on each of the inclined sides.

The entire device may be of cast iron, coated with zinc or tin, or otherwise prepared to prevent oxidation. It is supported by means of arms formed integral therewith, and adapted to rest on the rim of a pail of ordinary size. It is arranged to set sufficiently to one side of the central line of the pail to allow ample space for inserting the mop into the pail and removing it.

The accompanying drawings form a part of this specification and represent what I consider the best means of carrying out the invention.

Figure 1 is a vertical section on the line 1 1 in Fig. 2, showing the device in position on a pail, and Fig. 2 is a plan view.

Similar letters of reference indicate corresponding parts in both the figures where they appear.

A is a pail of an ordinary pattern and size, and B is the body of my wringer, in the form of a vessel V-shaped in cross-section, with liberal apertures *b* near the bottom to allow the water to be squeezed out.

I will use super-numerals, as B′, to indicate certain parts, when necessary.

B′ are short arms extending horizontally, and having their ends hooked downward, as shown.

B^2 are longer arms extending out from the ends nearly length-wise of the structure, at the same level with the arms B′, and having their ends similarly hooked. The hooks extend down outside of the rim of the pail and aid to keep the wringer in place thereon. The interior of the body B and of the slots *b* should be smooth. The whole is galvanized or otherwise coated.

The wringer may be made and sold separate from the pail. It may apply on any pail of ordinary size.

The mop, not shown, is inserted in the pail in the liberal space *a* one side of the mop-wringer. On lifting it out, the mop may be worked on the floor with its full supply of water. At a later stage, after it has taken up the dirt from the floor, it is thrust into the V-shaped vessel B and forced downward several times, each time expressing the water through the apertures *b*, and allowing it to fall back into the pail. It may be returned to the floor two or more times, and each time again thrust into my V-shaped receptacle until the water is sufficiently removed from the floor, when the entire operation may be repeated in another place, and so on.

My wringer can, if desired in any case, be used to express a portion of the relatively clean water before applying the mop on the floor in the first instance.

Modifications may be made in the angle of the sides and in the number and size of the slots, and the length and position of the arms, &c. I have shown what I esteem the best form to apply on all ordinary sizes and forms of pails.

It will be seen that my wringer is adapted to match on a common pail and to only partially cover the same, leaving a sufficient space uncovered so that a mop may be alternately immersed in the water and filled and treated in the wringer and the water expressed, requiring but one vessel. The V-shaped vertical section and rectangular plan allows the use of a mop with a rigid cross-head, care being taken to always turn the head into the proper line when the mop is thrust down one or more times into the wedge-formed interior to express the water. The tapering body B of the wringer by extending down on the inside of the pail holds the device against being displaced outwardly, and the arms B′ and B^2 with their hook-ends hold up the device and prevent its being displaced inwardly. It results that this simple construction, all in one piece without any working parts will match to pails of ordinary sizes and maintain itself in a position to serve efficiently leaving a large space

exposed to allow the mop to be dipped alongside.

I claim as my invention—

As an improved article of manufacture, the mop-wringer described, consisting of a metallic vessel B, having inclined sides with vertically disposed openings *b*, extending from the bottom to about the mid-height, adapted to allow a flat mop to be forced down therein and to express the water therefrom by such movement, a pair of horizontally disposed arms B′ and a pair of longer horizontal arms B^2 formed with hook-ends adapted to rest on and engage hook-wise with the rim of a bucket, the arms being at the mid-height of the vessel so as to hold the vessel half immersed, the whole being arranged as shown so as to confine the vessel to one side of the interior of the bucket and to leave a liberal space in the center and in the opposite side of the bucket, all substantially as and for the purposes herein specified.

In testimony that I claim the invention above set forth I affix my signature in presence of two witnesses.

WILLIAM F. ULMAN.

Witnesses:

CHARLES R. SEARLE,

M. F. BOYLE.