

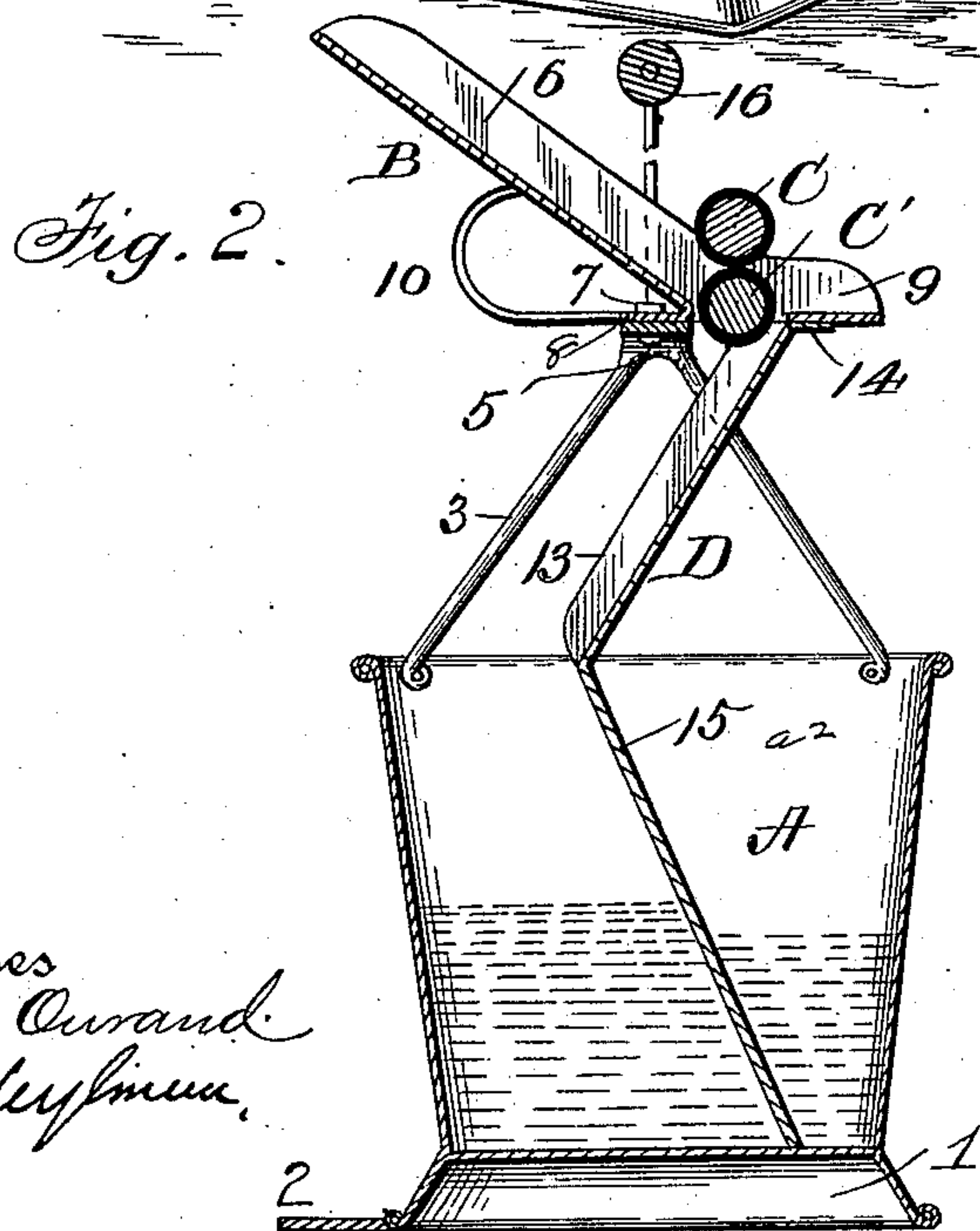
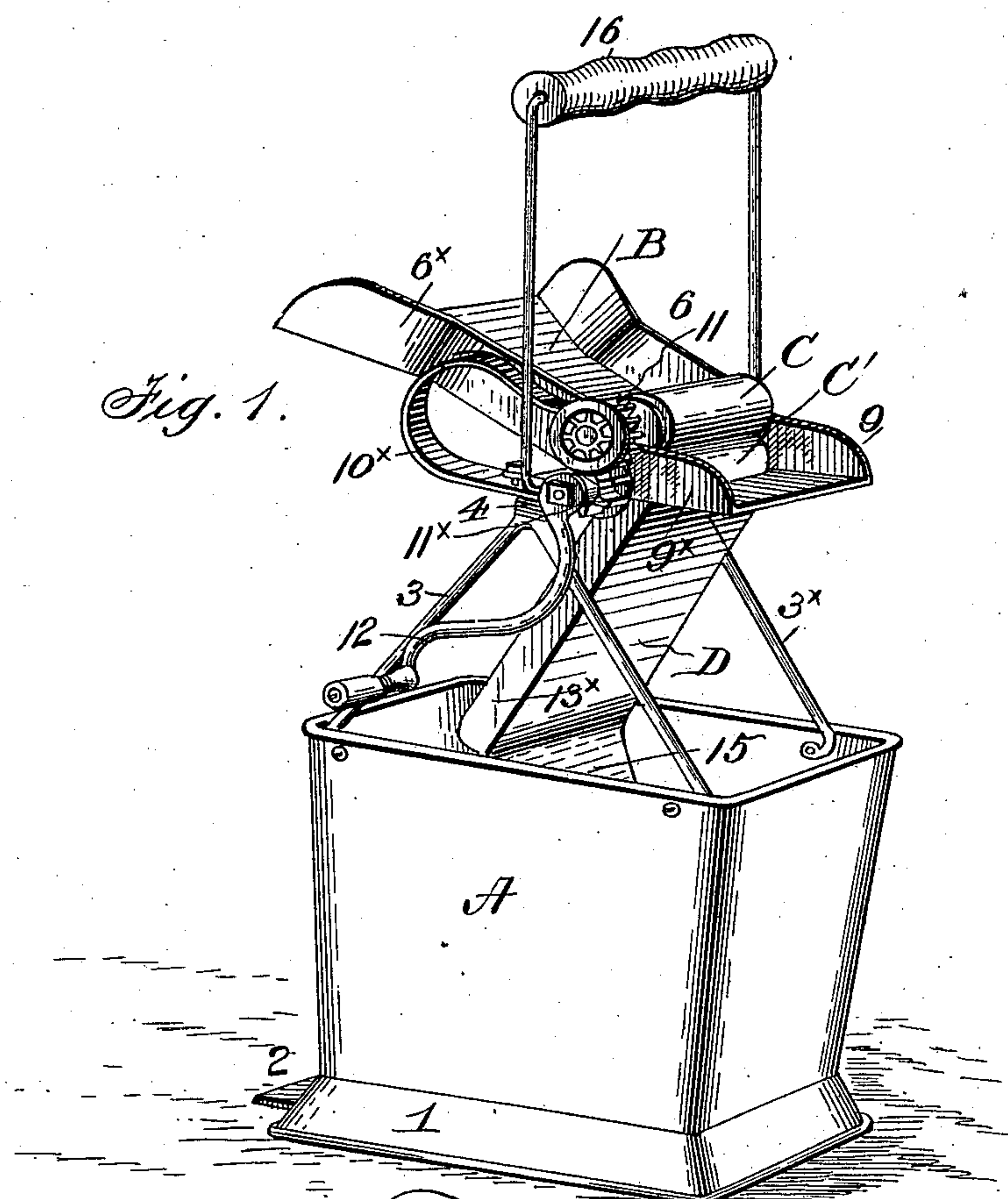
(No Model.)

2 Sheets—Sheet 1.

J. A. HIGGINS.
MOP WRINGER.

No. 577,030.

Patented Feb. 16, 1897.



Witnesses
Frank L. Curand.
A. G. Keyfman.

Inventor
John A. Higgins
by J. M. Yznaga.
Attorney

(No Model.)

2 Sheets—Sheet 2.

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MOP WRINGER.

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Fig. 3.

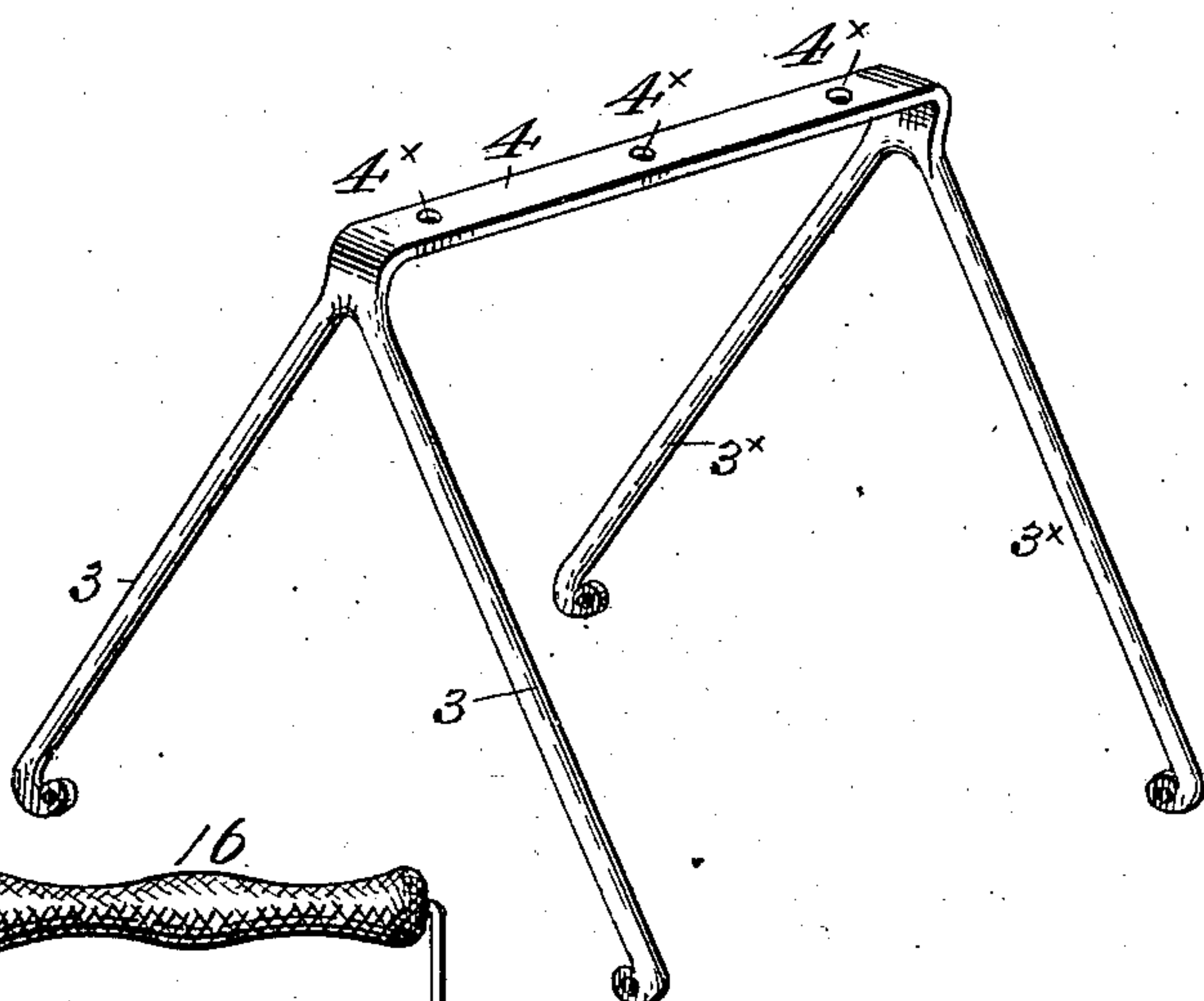


Fig. 4.

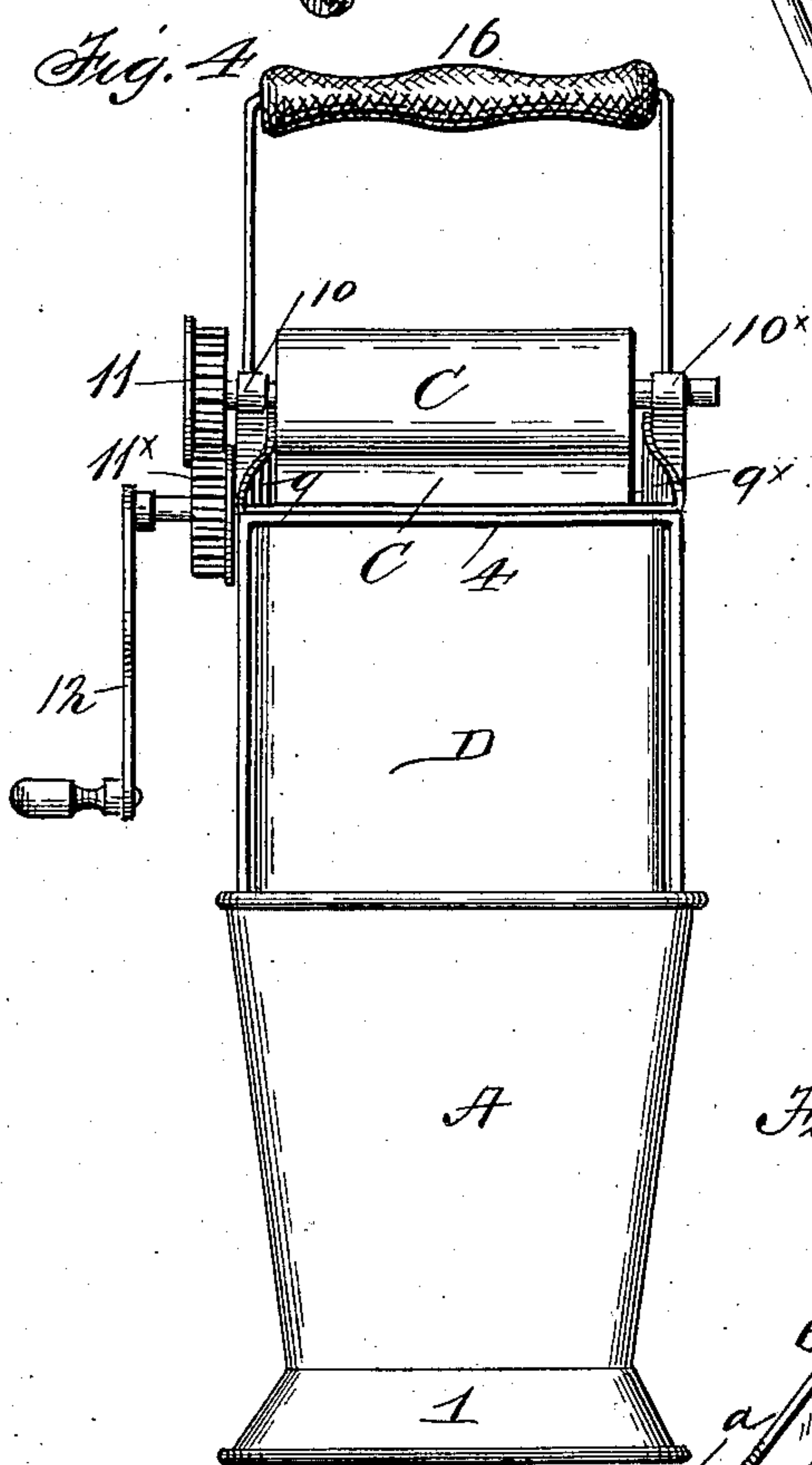


Fig. 5.

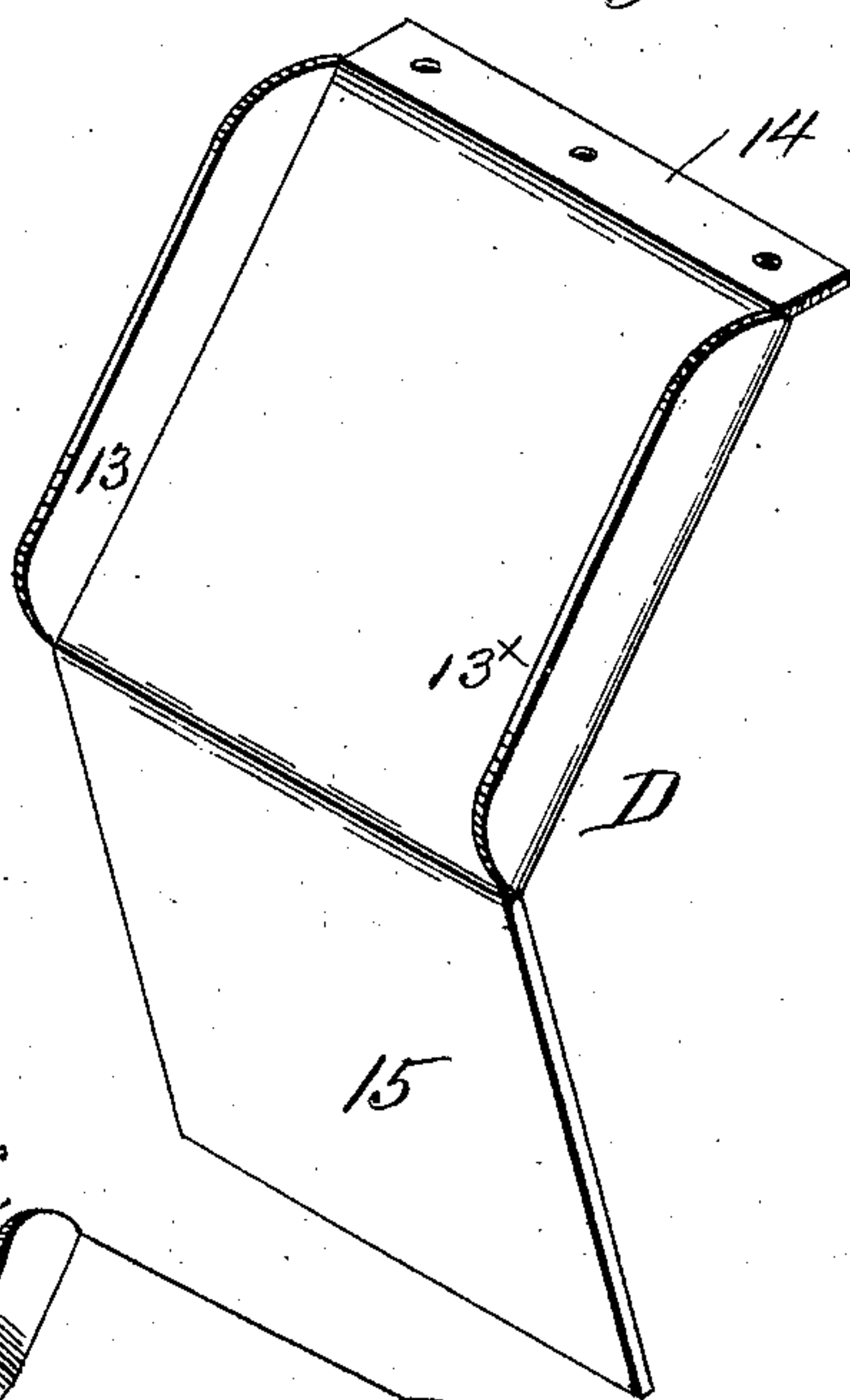
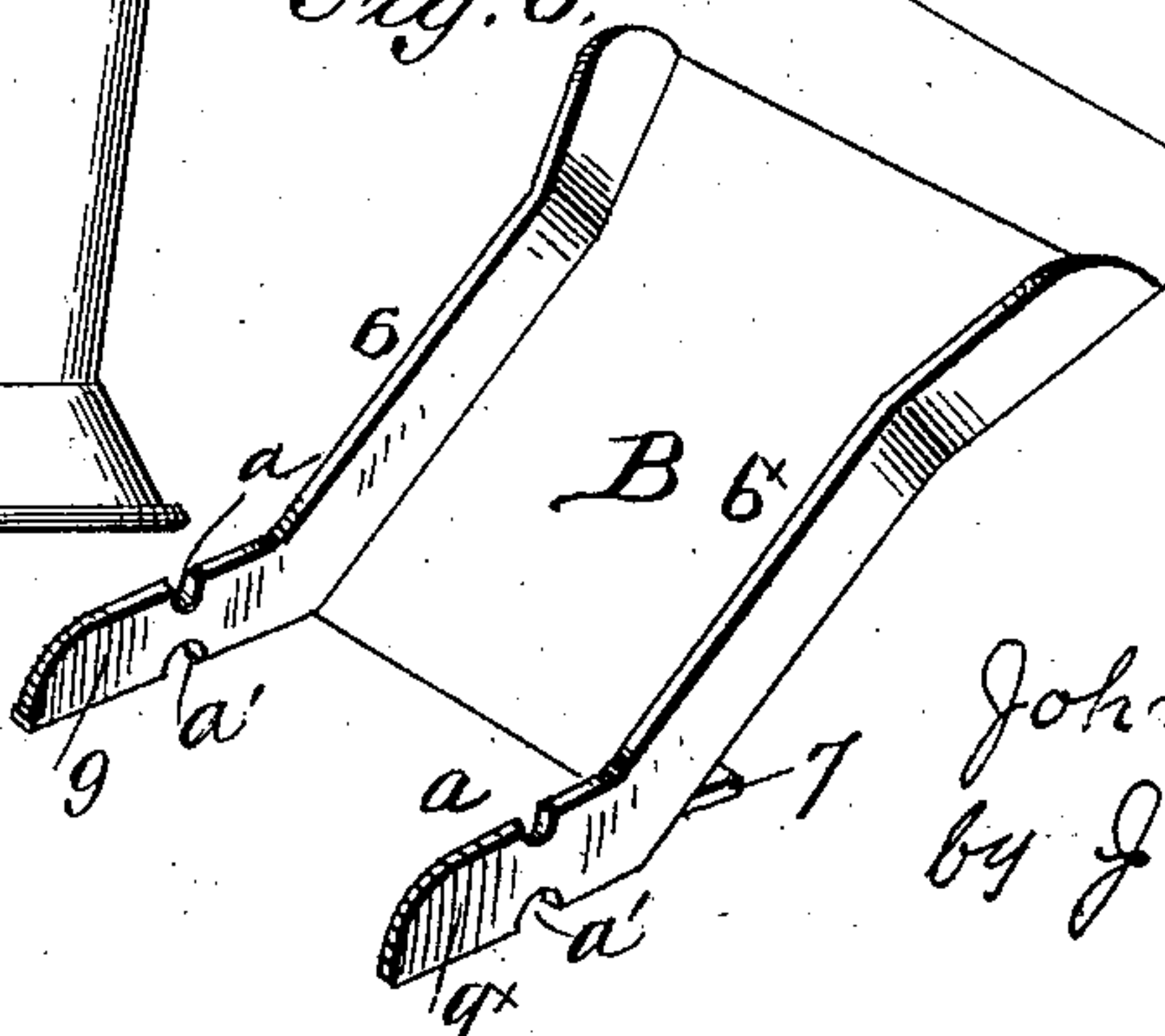


Fig. 6.



Witnesses
H. L. Ourand
A. G. Keyman.

Inventor
John A. Higgins
by J. M. Yznaga.
Attorney

UNITED STATES PATENT OFFICE.

JOHN A. HIGGINS, OF MANISTEE, MICHIGAN.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 577,030, dated February 16, 1897.

Application filed August 12, 1896. Serial No. 602,516. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. HIGGINS, a citizen of the United States of America, residing at Manistee, in the county of Manistee and State of Michigan, have invented certain new and useful Improvements in Mop-Wringers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to improvements in mop-wringers; and the object is to provide an improved mechanism of the kind mentioned and for the purpose intended which is simple in construction and efficient in operation.

I have fully and clearly illustrated the invention in the accompanying drawings, wherein—

Figure 1 is a perspective view of the complete device. Fig. 2 is a vertical central section through the device. Fig. 3 is a detail of the supporting-frame. Fig. 4 is a front view in elevation. Fig. 5 is a detail of the chute-plate and partition removed from the pail. Fig. 6 is a detail perspective of the mop-plate removed from the machine.

Referring to the drawings, A designates a pail or vessel made of substantial sheet metal and preferably angular in contour, substantially as shown in the drawings. On the bottom of the pail is formed or secured a flange 1, to which is attached a foot-piece 2, to which the foot of the operator is applied to hold the pail steady and against movement when running the mop through the rollers.

3 3^x designate supports made of iron rods or bars having their lower ends suitably secured to the pail at the corners and their upper ends brought together, as shown, and united by a flat cross-bar 4, of iron, in which are made two or more holes 4^x, adapted to receive fastening-bolts 5, which clamp and hold the mop-piece to the cross-bar, as hereinafter specified.

B designates the mop-plate, consisting of a sheet-metal plate formed with vertical side flanges 6 6^x and a reversed bottom flange 7,

which lies on the upper face of the cross-bar 4 of the supporting-frame and is firmly secured thereto by threaded bolts and nuts 8. The mop-plate is arranged at an incline, and the side flanges are extended, as shown at 9 9^x, beyond the bottom edge of the floor of the mop-plate and are disposed between the journals of the rollers, the extensions constituting guides which prevent the mop from being run off the ends of the rollers. In the upper and lower edges of the extensions 9 9^x are formed oppositely-arranged notches or recesses *a a'*, in which the journals of the rollers engage.

C C' are the wringing-rollers, of the usual character and make, journaled in the ends of oppositely-arranged U-shaped springs 10 10^x, the lower limbs of the springs being secured to the ends of the cross-bar 4, as indicated in the drawings. On the extended journals of the rollers are mounted intermeshing pinions 11 11^x, and on one of the journals is fixed a crank 12, by which the rollers are turned.

D designates a chute down which the expressed water escapes. This chute consists of a metal plate formed with side flanges 13 13^x and a flange 14 at its upper end, which flange sits across the under side of the extensions 9 9^x of the mop-plate and is secured thereto by any proper means or cementation, a space being thus formed between the bottom edge of the mop-plate and the edge of the flange 14, in which space the body of the lower roller is disposed, substantially as shown. The upper part of the chute-plate D is inclined reversely to the incline of the mop-plate. The chute-plate D is extended down into the pail, as at 15, the part 15 being inclined reversely to the part extending above the bucket, and fits with its edges against the opposite inner faces of the pail, constituting a partition, the sides and bottom of the plate 15 being cemented to the walls and bottom of the pail and dividing the pail into two compartments, one of which contains the clean water and the other constituting a receptacle into which the dirty water runs when the mop is wrung out.

To the ends of the cross-bar 4 is suitably connected a bail 16, by which the device may be carried or moved from place to place.

The operation of the device is as follows:

Clean water is placed in the front space or compartment a^2 of the pail, and the mop is dipped therein and used on the floor in a well-known manner, and when used until it is necessary to deprive it of the dirty water the mop is placed on the inclined mop-plate, and the crank is turned to rotate the wringing-rollers until the mop is drawn through as far as necessary, which operation presses the water out of the mop, the expressed water running down the incline D into the rear space or compartment, and when the mop is run through as far as required the rollers are reversed and the mop carried out of the rollers ready for a new supply of clean water. It will be perceived that the operation has been accomplished without touching the mop with the hands.

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

1. A mop-wringer, comprising a pail, a frame mounted on the pail, an inclined mop-plate having side flanges extending beyond the lower end of the plate, suitably-journaled wringing-rollers having the extensions of the mop-plate arranged between their journals, means to rotate the rollers, a chute D, re-

versely inclined to the mop-plate, formed with side flanges, and having its upper end secured to the extensions of the mop-plate, and a plate extending from the lower end of the plate D into the pail and forming a partition dividing the pail into two compartments.

2. A mop-wringer, comprising a pail, rectangular in cross-section, a supporting-frame composed of bars having their lower ends secured in the corners of the pail and their upper ends united, a cross-bar uniting the opposite frames, an inclined mop-plate formed with side flanges, extended beyond the lower end of the plate, a reversely-inclined chute D, having its upper end secured to the extensions of the mop-plate, and formed with an extension reaching into the pail and dividing it into two compartments, wringing-rollers journaled in the opening at the foot of mop-plate, intermeshing gears on the journals of said rollers, and a crank to rotate the rollers.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. HIGGINS.

Witnesses:

WILLIAM NUEYESSER,
T. N. REYNOLDS.