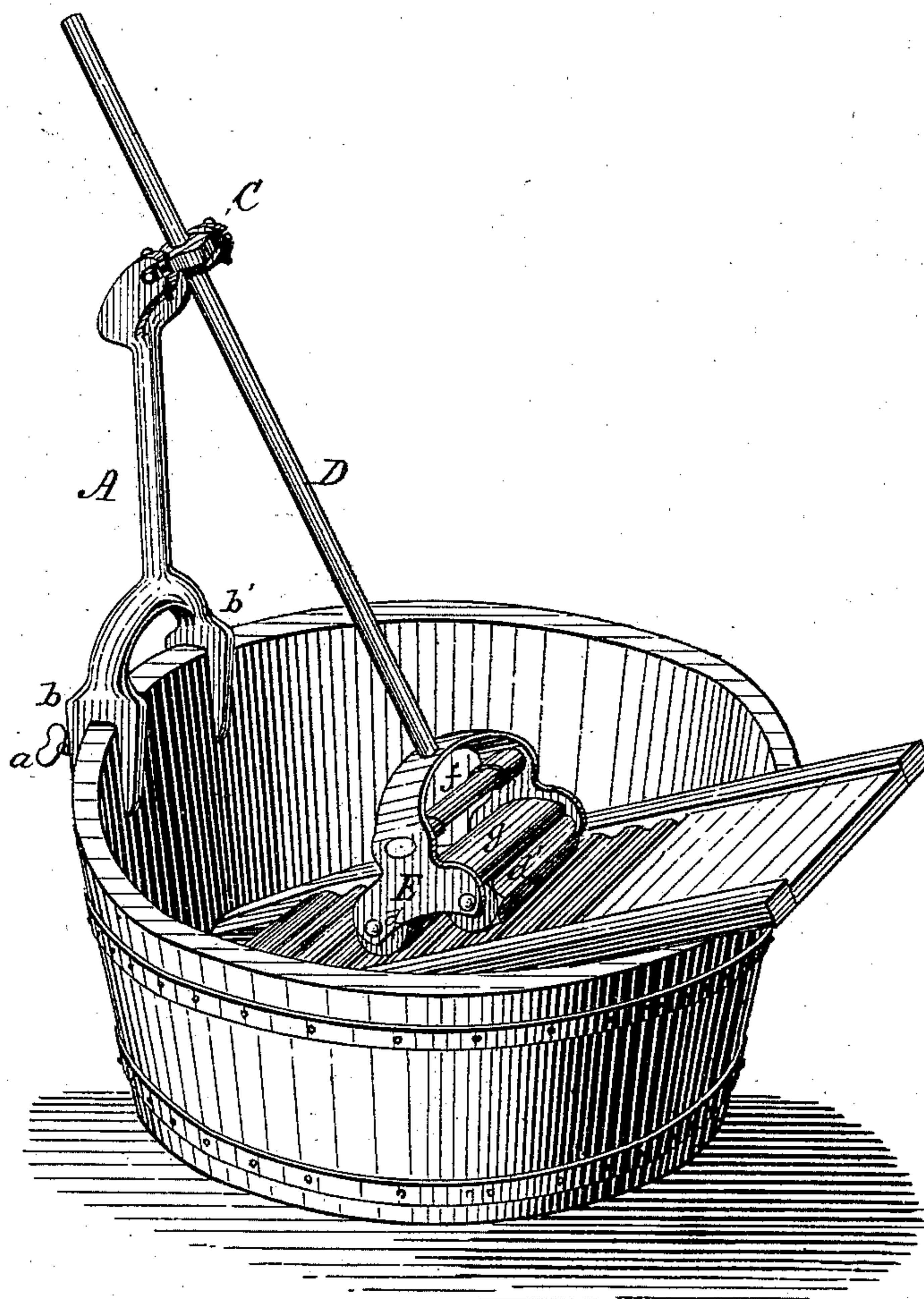


C. C. BISHOP.
Washing-Machines.

No. 165,979.

Patented July 27, 1875.



WITNESSES:

Louis Bagger
Wm. Bagger

INVENTOR.

Charles C. Bishop.
Per *Parker H. Sweet, Jr.*
His ATTORNEY.

UNITED STATES PATENT OFFICE

CHARLES C. BISHOP, OF GEORGETOWN, DISTRICT OF COLUMBIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **165,979**, dated July 27, 1875; application filed June 2, 1875.

To all whom it may concern:

Be it known that I, CHARLES C. BISHOP, of Georgetown, in the county of Washington and District of Columbia, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in washing-machines, adapted to be used in connection with any size wash-tub; and it consists of a vertical forked support, the feet or base of which fit upon the rim of the tub; and it further consists of a pivoted sleeve secured within the fork of said support, through which passes a shaft or rod carrying the washing-rollers, all as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, the figure represented is a perspective view of my invention, showing its application to a wash-tub.

A represents an upright forked support, the base of which terminates in two feet, *b b'*, which are adapted to fit over and upon the rim of the tub, as shown, and secured thereto by suitable thumb-screws *a*. The upper portion or fork of the support A inclines at an angle toward the operator, or toward the wash-board, one arm of the fork being slotted, and the other having a circular opening to admit of the adjustment of the pivoted sleeve C between the two. D represents a shaft or rod, which is adapted to move up and down through the pivoted sleeve C, as shown, said shaft being provided with a forked bearing at its base, between which is hung a frame, E, carrying the rollers *d d'*. This frame E is constructed with side pieces, which extend up and above the rollers *d d'*, and are provided at that point with a handle, *f*, a hood, *g*, being arranged under the said handle and over the rollers *d d'*, as shown in the drawing. The rollers *d d'* are preferably made octagonal in form, although they may be simply corrugated on their outer circumference.

Having thus premised the principal features

of my invention I will now proceed to describe the operation of the same.

The forked support A is adjusted upon the rim of the tub, and secured thereto in a rigid and secure manner by means of the thumb-screws *a*; the wash-board is then placed in the tub directly in front of the said support, and inclined in the position shown in the drawing. The tub is then filled with water to about one-half its capacity, and the clothes to be washed are placed therein. The frame E is then grasped by the handle *f*, and rapidly moved up and down on the wash-board over the clothes, which may be guided thereon by the unoccupied hand.

The operation is such as to secure the motion of the ordinary hand-washing, the clothes being turned and doubled upon the wash-board, and rubbed until all portions of the same are thoroughly cleansed. The hood *g* assists in bringing up the water to the highest part of the clothes on the wash-board, while at the same time it prevents the water from being splashed upon the person working the apparatus. The shaft D, sliding up and down in the pivoted sleeve C, adapts the rollers to any thickness of clothes upon the wash-board, and when it is desired to place in or take out the clothes from the tub the frame E, with the rollers *d d'*, can be turned up and over the forked support A out of the way, leaving the entire diameter of the tub free.

The advantages of my invention will be readily apparent, inasmuch as by its simple and durable construction the clothes can be readily cleansed and rinsed, and without bruising the hands, as is the case when using the wash-board alone in the ordinary manner.

I am aware that washing-machines have heretofore been constructed with two vertical supports, placed some distance apart, between which are arranged cross-rods, upon or through which play the arms which carry the washing-rollers. The disadvantages of this construction may be enumerated as follows: The vertical supports being spread apart are adapted to fit only a few sizes of wash-tubs; the construction is both expensive and complicated; the pivoted side arms which carry the rollers are liable to breakage by any sudden lateral strain. All of these disadvantages are obvi-

ated by my present invention, inasmuch as it can be readily and easily applied to the smallest or largest size of tub made; the expense of manufacture reduced one-half; more space afforded within the tub; and, as now constructed, combines strength, durability, and economy of construction, with a ready adaptation for the purpose intended.

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

In a washing-machine constructed as hereinbefore described, the combination of the forked upright A, having feet *b b'* adapted to fit upon the rim of a tub, and forked supports in which

is pivoted the sleeve C, with the shaft D carrying the frame E, having the rollers *d d'*, handle *f*, and hood *g*, the several parts being constructed, arranged, and combined to operate in connection with an ordinary wash-tub and board, substantially in the manner shown and described.

In testimony that I claim the foregoing as my own invention, I affix my signature in presence of two witnesses.

CHARLES C. BISHOP.

Witnesses:

PARKER H. SWEET, Jr.,
A. MOORE.