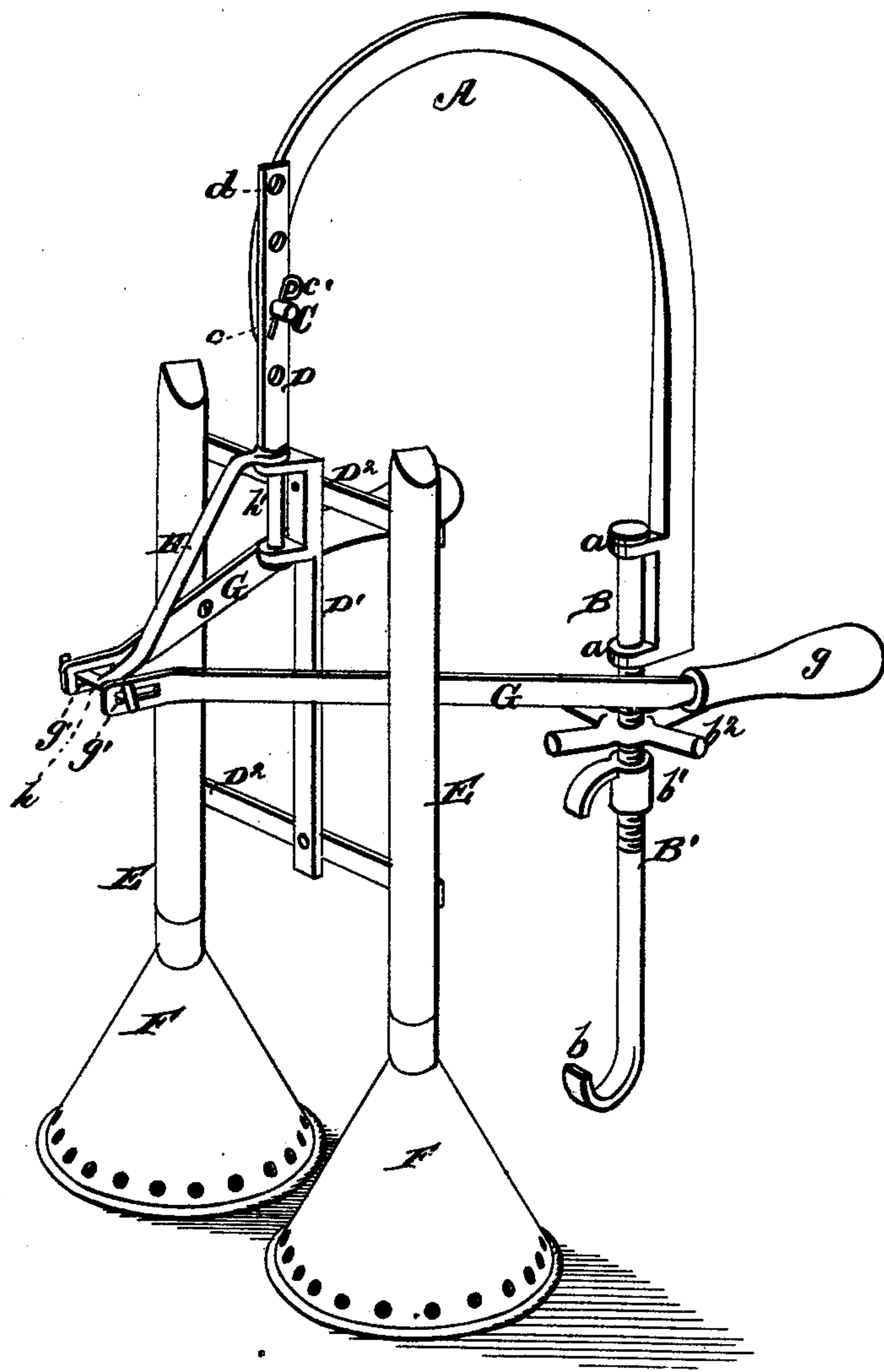


G. W. NICHOLS.  
Washing-Machine.

No. 214,437.

Patented April 15, 1879.



WITNESSES.

*Robert Everett.*  
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By

INVENTOR

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# UNITED STATES PATENT OFFICE.

GEORGE W. NICHOLS, OF DUPONT, INDIANA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **214,437**, dated April 15, 1879; application filed February 21, 1879.

*To all whom it may concern:*

Be it known that I, GEORGE W. NICHOLS, of Dupont, in the county of Jefferson and State of Indiana, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a perspective of my washing-machine.

My invention relates to a washing-machine adapted to be attached to and removed from any ordinary wash-tub; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

In carrying out my invention I employ a curved standard, which is swiveled upon a threaded bar having a hook-clamp upon the lower end and a loose sleeve-clamp, which is governed by an armed nut as a follower. The threaded bar turns loosely in perforated ears upon the curved standard, and allows said standard to be turned at will. Upon the opposite end of the curved standard is a stud having a transverse perforation to receive a securing-key, as shown. This stud operates loosely in any one of a series of holes upon a vertical standard, which is thereby rendered vertically adjustable, and its lower portion operates loosely within perforated ears formed upon a vertical bar, upon which are pivoted two cross-bars, forming the pivot of a reciprocating frame. Upon the ends of these bars are pivoted two reciprocating vertical pounder-handles, each carrying a pounder of any desired construction. Two levers, having handles, are pivoted to the pounder-handles, the ends opposite from the handles being provided with slots, within which operates the cross-head of a brace pivoted to the arm.

It will be observed that when the clamps are secured to the chines of the tub above and below, the curved arm turns loosely in its bearings, and is allowed to describe the arc of a circle in its course. The vertical arm pivoted

thereto allows play to the reciprocating frame, and that said frame revolves as on a swivel, and by this construction any portion of the tub may be operated upon by the pounders.

Referring to the drawing, A represents the curved body, having upon its outer end perforated ears *a*, within which operates loosely a vertical rod, B, having a threaded portion, B', a clamp-hook, *b*, a loose sleeve-hook, *b*<sup>1</sup>, and a lever-nut, *b*<sup>2</sup>, as shown. The lower clamp-hook being passed over the lower chine of the tub and the loose one embracing the upper chine, the lever-nut is screwed down until the device is firmly clamped to the tub.

Upon the other end of the curved body A is a rigid stud, C, having an eye, *c*, which receives a key, *c*', and this stud and key are adapted to secure to the said body an adjustable vertical bar, D, having a series of perforations, *d*, as shown. Swiveled to the lower portion of this bar D is an upright, D<sup>1</sup>, to which are pivoted cross-bars D<sup>2</sup>. Upon the ends of these bars D<sup>2</sup> are pivoted the reciprocating vertical handles E, each carrying a clothes-pounder, F.

G represents levers pivoted to the pounder-handles, one end of each being provided with handle *g*, and both opposite ends being provided with slots *g*', within which operates the cross-head *h* of a brace, H, which turns loosely upon the bar D by means of a socket, *h*'.

What I claim as new, and desire to secure by Letters Patent, is—

1. The body A *a*, bar B B', having clamp-hooks *b* *b*<sup>1</sup>, and lever-nut *b*<sup>2</sup>, in combination with reciprocating pounders F and adjustable connections, as specified.

2. The adjustable bar D *d*, swiveled upright D<sup>1</sup>, cross-bars D<sup>2</sup>, and brace H, having cross-head *h*, in combination with pounders E F, levers G *g* *g*', and body A C *c* *c*', as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE WASHINGTON NICHOLS.

Witnesses:

GARRETT WILLIAMS,  
BENJ. W. HUGHES.