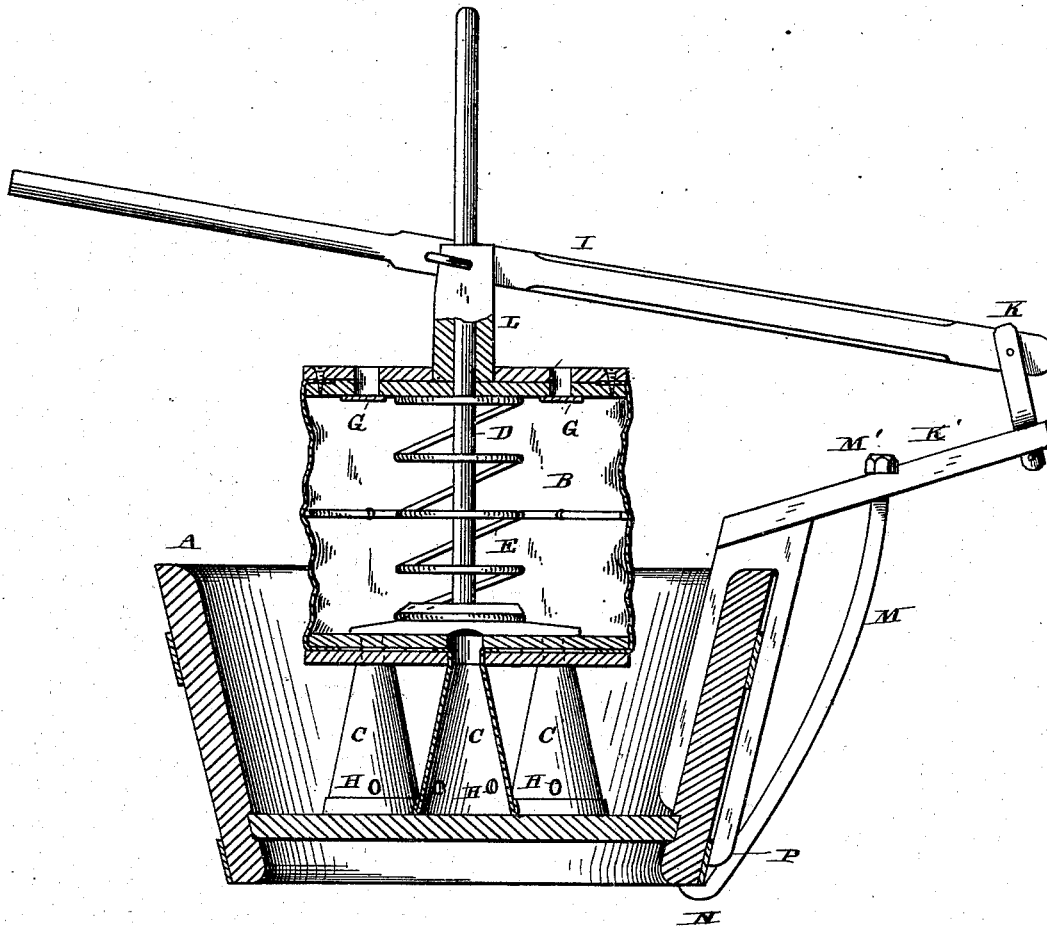


(No Model.)

H. A. WILLIAMS.  
WASHING MACHINE.

No. 264,809.

Patented Sept. 19, 1882.



Witnesses.

Edwin L. Jewell.

H. A. Williams.

Inventor.

Henry A. Williams.

By E. M. Alexander,  
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# UNITED STATES PATENT OFFICE.

HENRY A. WILLIAMS, OF PRINCETON, INDIANA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 264,809, dated September 19, 1882.

Application filed June 14, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY A. WILLIAMS, of Princeton, in the county of Gibson, and in the State of Indiana, 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, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in washing-machines; and it has for its object to provide an apparatus which will thoroughly agitate the clothes and force currents of air, in connection with the water, through the clothes, thus subjecting every portion of the clothes to the action of the water. These objects I attain by the apparatus illustrated in the accompanying drawing, in which is represented a vertical sectional view of my improved apparatus.

The letter A indicates a tub or vessel of any suitable description, and B a bellows having conical hollow extensions C at the bottom, and adapted to be placed in the tub or vessel. The heads of the bellows are each formed in two parts—flexible connecting sheet—consisting of any suitable material, being clamped between the edges of the boards, which are fastened together by means of screws or other fastening devices. The upper head is provided with a central boss which is adapted to play up and down upon a vertical guide-rod, D, secured to the lower head of the bellows, and a spiral spring is located within the bellows, as indicated by the letter E, to hold and return the upper

head to a normal position. The upper head is provided with apertures and inwardly-working valves G for the admission of air to the bellows. The conical extensions are provided with openings H near the lower edges for the escape of air into the water.

The letter I indicates a lever fulcrumed to a swiveled bearing, K, and pivoted to the boss L, secured to the upper head. The bearing K is secured to the upper end of an inclined arm, K', which is secured to a bifurcated standard, which is adapted to be held by means of a clamp-rod, M, passing through the inclined arm, and provided at its upper end with a screw-nut, M', and a hook, N, at its lower end, the said rod passing through a recess, P, at the lower end of the standard for more securely holding it.

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

In combination with the tub or washing-vessel, the bellows provided with conical extensions provided with openings near their lower edges, the upper head provided with apertures and inwardly-opening valves, the boss, and the guide-rod and spring and mechanism for operating the bellows, substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 23d day of May, 1882.

HENRY A. WILLIAMS.

Witnesses:

E. E. WILKINSON,  
THOMAS WILLIAMS.