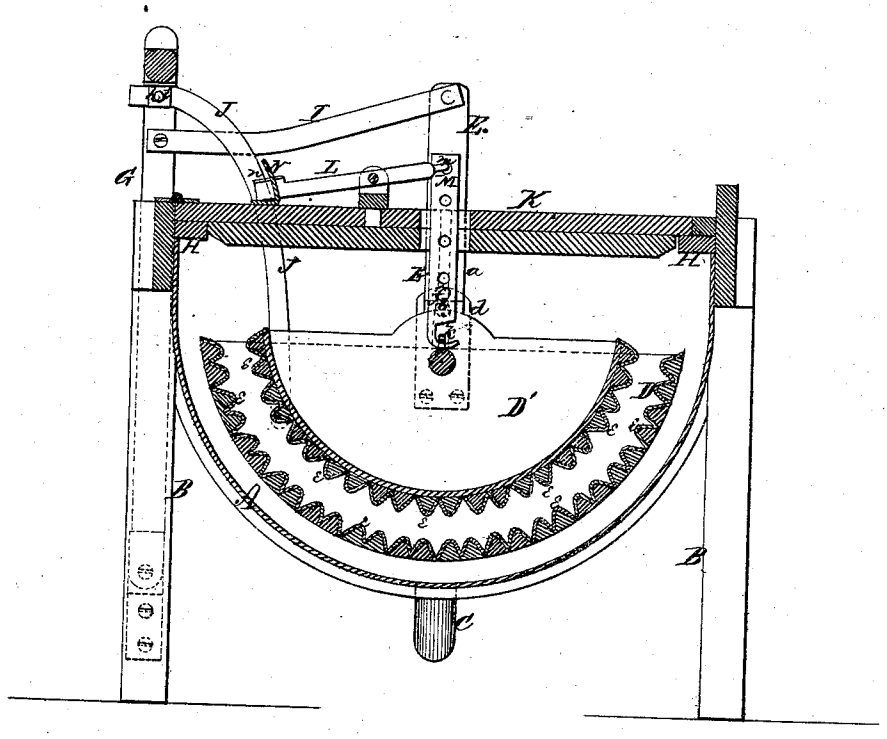
J. F. COWGILL & W. HILL.

Improvement in Washing Machines.

No. 125,544. Patented April 9, 1872.



Witnesses
John A. Ellis
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Inventor's
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125,544

UNITED STATES PATENT OFFICE.

JOHN F. COWGILL AND WESLEY HILL, OF BUSHNELL, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 125,544, dated April 9, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that we, J. F. COWGILL and WESLEY HILL, of Bushnell, in the county of McDonough and State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and we 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, which form a part of this specification.

The nature of our invention consists in the construction and arrangement of a "Washing-Machine," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which is represented a longitudinal section of our washing-machine.

A represents a semi-cylindrical tub, resting upon legs B B. This tub is provided with a zinc or tin bottom, and has a spout, C, for drawing off the water. In the sides of the tub A are vertically-slotted plates *a a*, having each at the lower end a stud, *b*. Upon the two studs *b b* is hung a semi-cylindrical rubber, D, by means of slotted plates *d d* attached to the sides of the rubber. This rubber is composed of a series of slats attached to and connecting two semicircular heads, the inner surfaces of the slats being covered with longitudinally-corrugated plates *e e* of zinc. A second semi-cylindrical rubber, D′, is placed within the rubber D, and suspended by means of angular bars E E attached to its sides, which bars are provided with studs *f f* to be placed in the slotted plates *a a*. This rubber D′ is constructed in the same manner as described for the rubber, except that in this case it is the exterior surface of the slats which is covered with corrugated zinc plates *e e*. The rubbing-surfaces of the two rubbers D D′ being thus covered with zinc makes them more durable, and also makes less wear on the clothes. Between the rubbers and the ends of the tub are spaces or pockets H H, which act to keep the water from splashing, and prevent the clothes that are being washed from working out. To one end of the tub A is pivoted a lever-frame, G, for operating the rubbers D and D′, which may be called the concave and the cylinder, respectively, to distinguish between them. The sides of this frame are, by pivoted bars I I, connected with the upper ends of the bars E E attached to the cylinder D′, and the concave D is, by circle or segmental bars J J, connected with said frame, the upper ends of said bars J J being placed in ears *h h* and confined by pins *i i*, as shown.

By working the lever-frame G back and forth, it will be seen that the concave and cylinder or rubbers work in opposite directions.

This mode of operating is far superior to the usual crank motion, on account of the ease with which it can be worked either standing or sitting down.

The concave D may be lifted out or turned upside down, for the purpose of cleaning and drying, by raising the cylinder D′ out and placing it on the end of the lid K, then drawing the two pins *i i*, loosening the bars J J, when the concave can be raised straight up. The lid or cover K, closing the tub A, prevents the splashing of water or the escape of steam. By thus confining the steam the clothes are worked easier, rendered whiter, and the necessity of boiling them obviated. The operator, also, is not subjected to the annoyance of the steam escaping into his or her face. On top of the lid K is a lever, L, for the purpose of regulating the weight of the cylinder D′ on the clothes by means of a bar, M, through the lid, said bar having a hook on its lower end, which hooks on a wire staple, *k*, in the cross-bar in the cylinder. The bar M is provided with holes, into which a pin, *m*, on the lever L is inserted, the said lever working on a fulcrum. On the other end of the lever is a hook or catch, *n*, which catches in a ratchet, N, thereby holding the cylinder up, and gives it a pivot or bearing to work on, thereby making the machine work easier.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The rubber D D′, lever-frame G, bars I I

E E J J, slotted plates *a a d d*, when all are constructed and arranged as set forth.

2. The combination of the lever L with pin *m* and catch *n*, perforated hooked bar M, and ratchet N, all substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JOHN F. COWGILL.
WESLEY HILL.

Witnesses:
WM. H. OGLESBY,
JNO. BEACH.