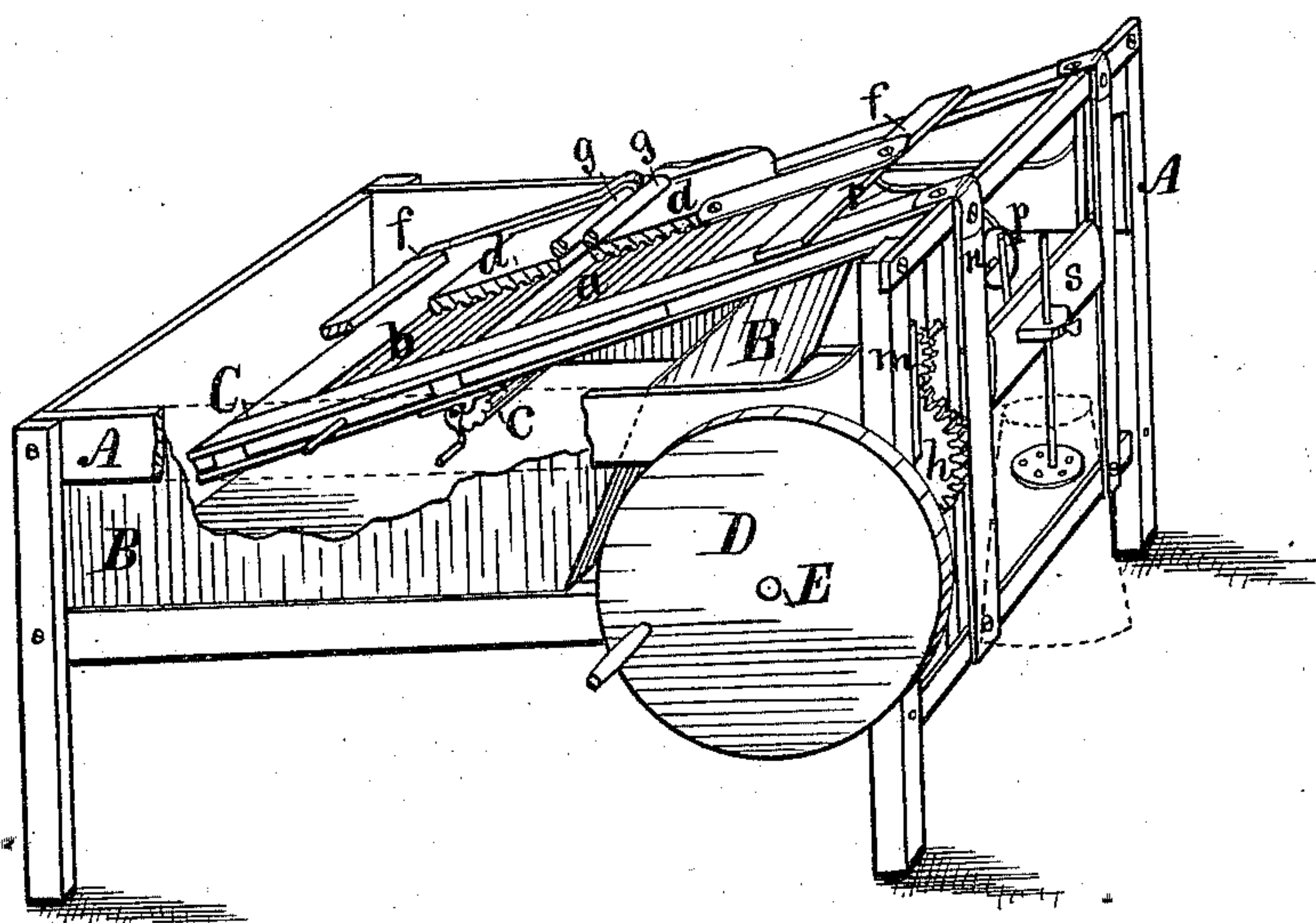


M. JONES.
Washing-Machine.

No. 163,317.

Patented May 18, 1875.



Witnesses.

B. G. Perkins
Arthur Wright.

Inventor,

Michael Jones,
Attorney, *Thomas G. Orwig.*

UNITED STATES PATENT OFFICE

MICHAEL JONES, OF DES MOINES, IOWA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **163,317**, dated May 18, 1875; application filed March 11, 1875.

To all whom it may concern:

Be it known that I, MICHAEL JONES, of Des Moines, in the county of Polk and State of Iowa, have invented an Improved Washing-Machine, of which the following is a specification:

My invention consists in mounting and combining two wash-boards with a tub and driving mechanism in such a manner that clothing will be automatically rubbed between the boards, as hereinafter fully set forth.

My drawing is a perspective view, illustrating the construction and operation of my invention.

A A represent an oblong frame, that may vary in size, as desired. B B is a tub, conforming in shape with the frame A, in which it is inclosed and supported. C is an auxiliary oblong frame, mounted upon the frame A in such a manner that its one end will rest in the end of the tub B, and its opposite end remain elevated over the tub. *a* is a wash-board rigidly fixed in the frame C. *b* is a movable section of a wash-board, which has its bearings in the frame C, and moves to and from the fixed board *a*, to allow clothing to pass down between the two boards *a* and *b*. Suitable springs and levers can be used for operating the movable board *b*. *c* is a fluted roller, mounted immediately under the lower end of the fixed board *a*, on bearings attached to the frame C. *d d* are half-sections of wash-boards, mounted in a suitable sliding frame, *f f*, in such a manner that they will move back and forth over the boards *a* and *b*, to rub clothing introduced between the boards. *g g* are rollers mounted upon bearings attached to the frame *f f*, in such a manner that clothing can be fed through them, and passed between the boards

d d to reach the boards *a b*. D is a driving-wheel, rigidly fixed on the shaft E, which has its bearings on the frame A. *h* is a gear-wheel rigidly fixed on the same shaft E. *m* is a pinion on the shaft *n*, mounted above the shaft E in bearings attached to the frame A. *p* is a crank-wheel on the end of the shaft *n*. *r* is a pitman, pivoted to the crank-wheel *p* and the sliding frame *f f*, to impart a reciprocating motion to the wash-board *d d*.

To operate my washing-machine, feed and pass the clothing through the rollers *g g* and boards *d d*. Operate the driving mechanism to cause the frame *f f* to slide up and down, and rub the clothing between the boards *d d* and *a b* until clean. To pass the clothing into the water in the tub B, move the board section *b* away from the fixed section *a* sufficiently to allow the clothing to pass between them and to rest against the roller *c*, which can be turned to draw the clothing down.

I am aware that a reciprocating motion has been imparted to a wash-board to rub clothing on a stationary board; but my manner of combining a sliding frame to carry a wash-board and a stationary frame, having an adjustable wash-board and a fluted roller, is new and advantageous.

I claim as my invention—

In a washing-machine, the stationary frame C, having a fixed wash-board, *a*, and an adjustable section, *b*, and a roller, *c*, in combination with a sliding frame, *f f*, carrying wash-board sections *d d* and rollers *g g*, substantially as and for the purposes shown and described.

MICHAEL JONES.

Witnesses:

ARTHUR WRIGHT;
J. K. MARSH.