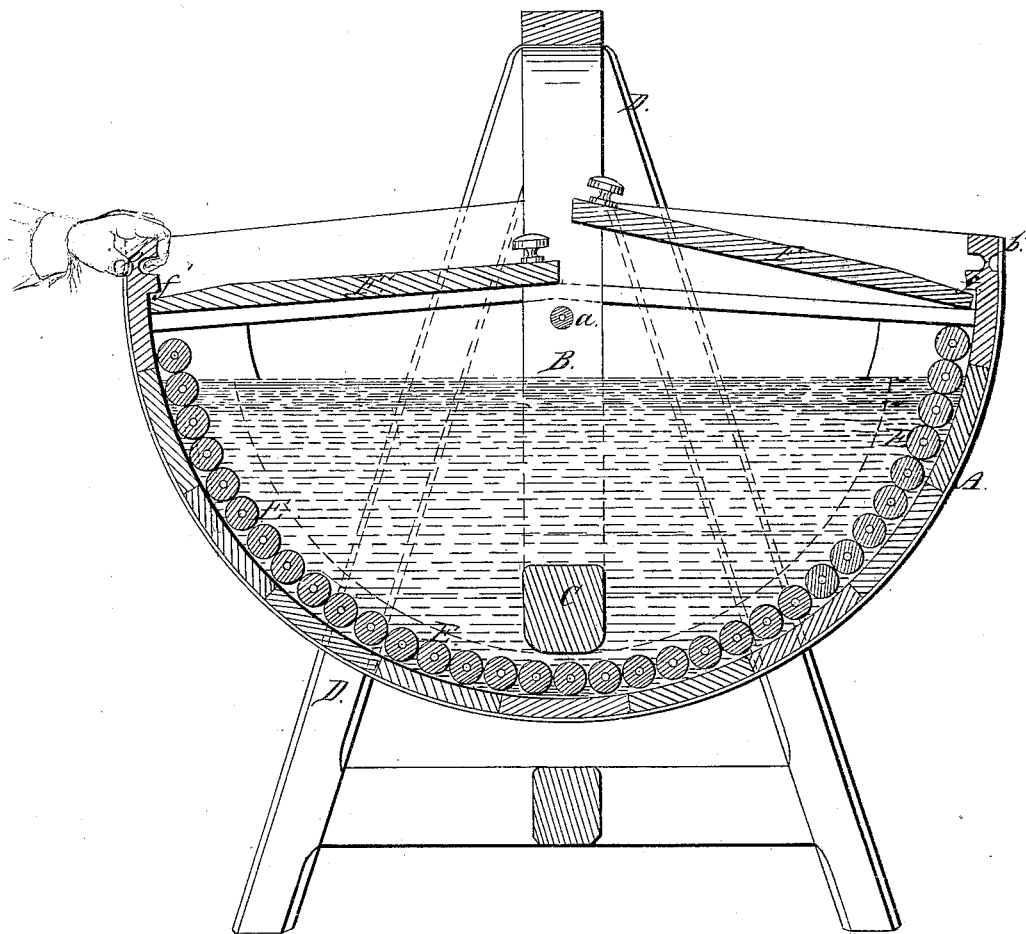


J. Welding,

Washing Machine,

N^o 50,973.

Patented Nov. 14, 1865.



Witnesses;

James H. Layman,
Chancellor.

Inventor;

John Welding,
By Hugh B. Bos
Att'y.

UNITED STATES PATENT OFFICE.

JOHN WELDING, OF CINCINNATI, OHIO.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. **50,973**, dated November 14, 1865.

To all whom it may concern:

Be it known that I, JOHN WELDING, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Washing-Machine; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification.

My invention relates to that class of washing-machines having a swinging tub, between the bottom of which and a stationary rubber the clothes are operated upon; and it consists in providing the bottom of the swinging tub with a series of rubbing-rollers, the line described by the faces of the rollers collectively being eccentric to that described by the stationary rubber when the machine is in motion, the said tub being closed by suitable covers when the machine is in operation.

The accompanying drawing is a cross-section of a washing-machine embodying my improvement.

The swinging tub A is journaled at *a* to the vertical posts B of the stationary rubber C, the whole being connected, as shown, to the frame D. The bottom of the tub is semi-cylindrical, and is provided with a series of rubbing-rollers, E. The point *a*, at which the tub is journaled, is below the center of the circular arc

described by the faces of the rollers collectively, so that the distance between the rubber C and the face of the rollers increases as the tub is oscillated in either direction. This eccentric arrangement of the parts enables the clothes to be collected easily between the stationary rubber C and the rollers E at the points of the widest opening, to be, in turn, submitted to severe pressure when the rubber is nearest to the rollers. The edges of the tub at *b b'* are cut away to form handles for the operator.

F F' are covers resting in suitable slots on the sides of the tub and kept in place by the projections of the handles at *f f'*.

I claim herein as new and of my invention—

The swinging semi-cylindrical tub A, hung eccentrically at *a*, and having journaled slightly within and concentric with its concavity a series of rollers, E, the same being combined with the stationary pendent rubber C, covers F F', and projections *f f'*, substantially as set forth.

In testimony of which invention I hereunto set my hand.

JOHN WELDING.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.