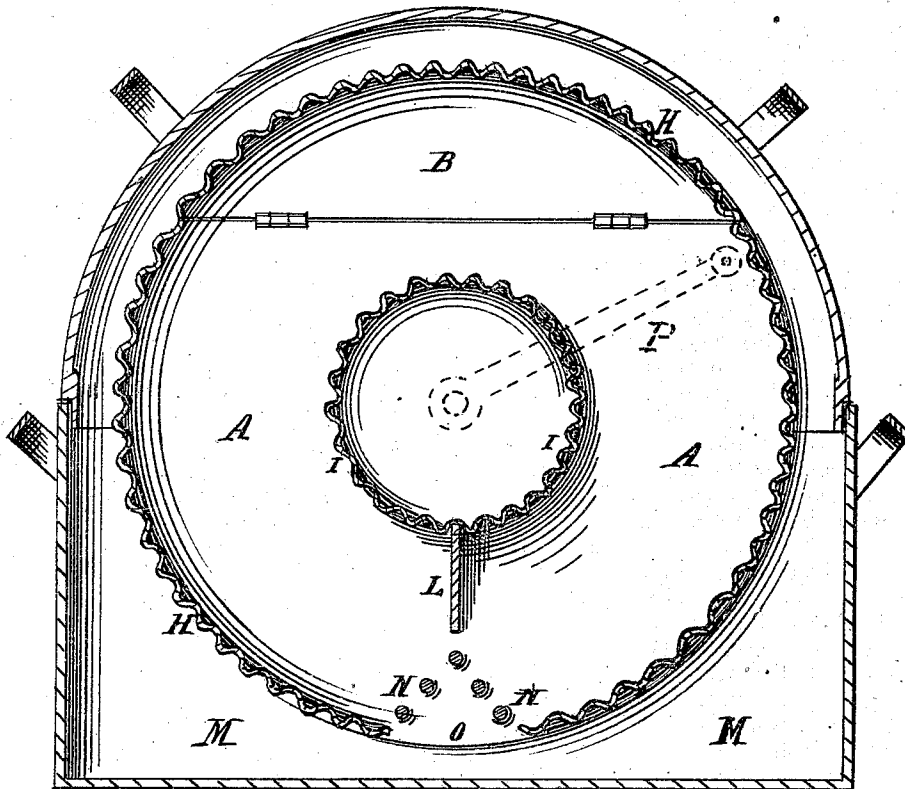


WILLIAM JAMES DODGE.

Improvement in Washing Machines.

No. 120,504.

Patented Oct. 31, 1871.



WITNESSES:

F. A. Morley.
A. Allgier

INVENTOR:

William James Dodge

UNITED STATES PATENT OFFICE.

WILLIAM JAMES DODGE, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 120,504, dated October 31, 1871.

To all whom it may concern:

Be it known that I, WILLIAM JAMES DODGE, of Syracuse, in the county of Onondaga and State of New York, have invented certain Improvements in Washing-Cylinders, of which the following is a specification:

My invention relates to constructing a cylinder with two concentric peripheries permanently attached to the same heads, and forming between the same the clothes-chamber, with a trap to admit the clothes, and an opening across the face of the outside periphery, properly guarded, to admit the hot suds freely into the cylinder. The guards with a short partition act as lifters to the clothes when the cylinder is revolved in either direction. The cylinder has suitable journals attached, and a crank, and is revolved in an ordinary wash-boiler or other suitable vessel in bearings attached to the same. The object of this construction is to obtain a large rubbing surface and to cause the clothes to separate as the cylinder is revolved, thus obtaining a thorough rubbing of every part and obviating the tendency to wad up or roll into a ball.

The drawing is a vertical cross-section of my cylinder and a boiler, in which M M represent the boiler; A A, the clothes-chamber; B, the trap; H H, the outside periphery, corrugated; I I, the inside periphery, corrugated; L N N, the partition and guards; N N, the guards, admitting water and stopping the clothes; O, opening

across the face of the outside periphery to admit water or suds; P, dotted line indicating crank.

I first fill the boiler half full of water and place the same on the fire to boil, suspend the cylinder in the boiler, open the trap, and fill the clothes-chamber on one side full of clothes having been previously soaked or wet, and add soap sufficient to make a strong suds, close the trap, and put on the tin cover, if one is used. When the water has boiled turn the cylinder by the crank a few times in one direction and then in the reverse. As the cylinder is turned the clothes are raised, and when they pass over the center of the inside periphery fall by their own weight successively one after the other into the opposite part of the clothes-chamber, thus bringing each article into contact with the rubbing-surfaces and the suds and rapidly and perfectly cleansing every part. For calicoes or flannels, remove the boiler from the fire, temper the suds, and proceed as before.

The cylinder may be used in a suitable tub or vessel entirely away from the fire.

I claim as my invention—

A cylinder with concentric peripheries H H and I I, clothes-chamber A A, trap B, lifters L N, guards N N, and opening O, constructed as and for the purpose herein described.

WILLIAM JAMES DODGE.

Witnesses:

FRANKLIN A. MORLEY,
A. ALLGIEAR.

(91)