

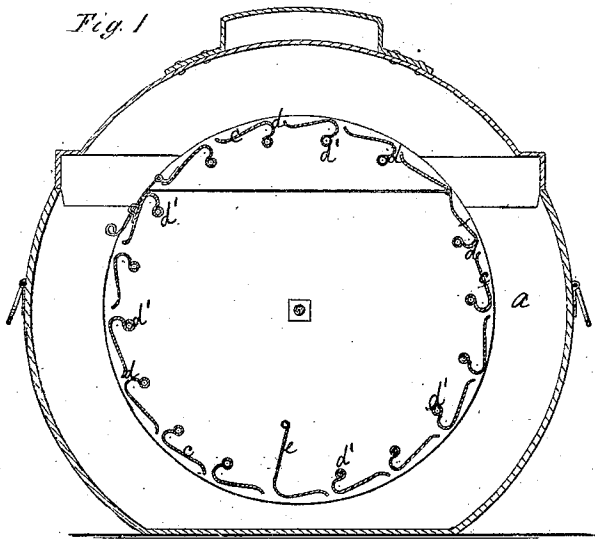
*A. A. Gardner,*

*Washing Machine.*

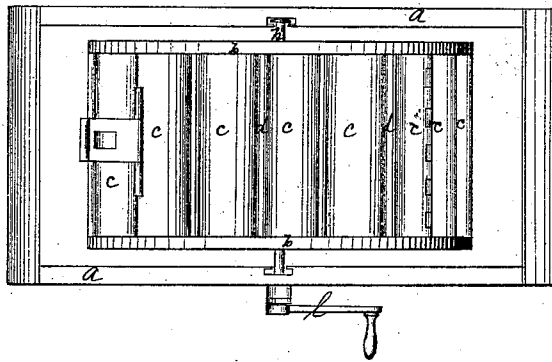
*No. 110,453.*

*Patented Dec. 27, 1870.*

*Fig. 1*



*Fig. 2*



*Witnesses.*  
*W. L. Lantkett,*  
*C. O. Brown*

*A. A. Gardner, Inventor*  
*by Geo. E. Brown,*  
*his Attorney*

# United States Patent Office.

ABRAM A. GARDNER, OF SAVANNAH, MISSOURI.

Letters Patent No. 110,453, dated December 27, 1870.

## IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, ABRAM A. GARDNER, of Savannah, in the State of Missouri, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and letters of reference marked thereon making a part of this specification, in which—

Figure 1 is a sectional elevation, and

Figure 2 is a plan view.

This invention relates to a hollow cylinder intended for receiving clothes and to be placed within a boiler for holding and heating water, the periphery of said cylinder being composed of transverse parallel metallic plates stationed at intervals sufficiently wide for the passage of water into the cylinder, those parts of said plates that project within the cylinder being bent back toward the external parts so as to form an annular series of buckets inside the cylinder.

To enable those skilled in the art to make and use my invention, I now proceed to describe its construction and operation.

Similar letters in the drawing refer to like parts.

Referring to the drawing—

*a* is the boiler within which the cylinder is mounted.

The cylinder is formed of two parallel side pieces, *b*, which are connected, near the edges, by a circular series of transverse metal plates, *c*, placed parallel,

and each separate from the rest, so as to form slots *d* for the admission of water from the boiler into the cylinder.

The rear parts of the plates *c* are bent backward so as to constitute buckets *d* within the cylinder, which buckets carry up water and constantly discharge it upon the upper part of the mass of clothes within the cylinder.

One (or more) of the plates *c*, wider than the rest, is bent radially inward so as to form a straight rib, *e*, which may be denominated a clothes-conveyer, and is intended to prevent the clothes from rolling up.

From the center of each side plate *b* a headed trunnion, *h*, extends horizontally outward. In the inner sides of the boiler sockets are formed for the reception of said headed trunnions, vertical grooves being cut from the tops of the side pieces downward to the sockets for the heads of the trunnions to slide in.

The crank *l* screws through one of the sockets into the trunnion.

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the cylinder, consisting of the side pieces *b*, peripheral plates *c*, buckets *d*, and rib *e*, as specified.

ABRAM A. GARDNER.

Witnesses:

R. S. EDWARD,  
WM. C. SMITH.