

G. WRIGHT.
Improvement in Washing-Machines.
No. 130,780. Patented Aug. 20, 1872.

Fig. 1.

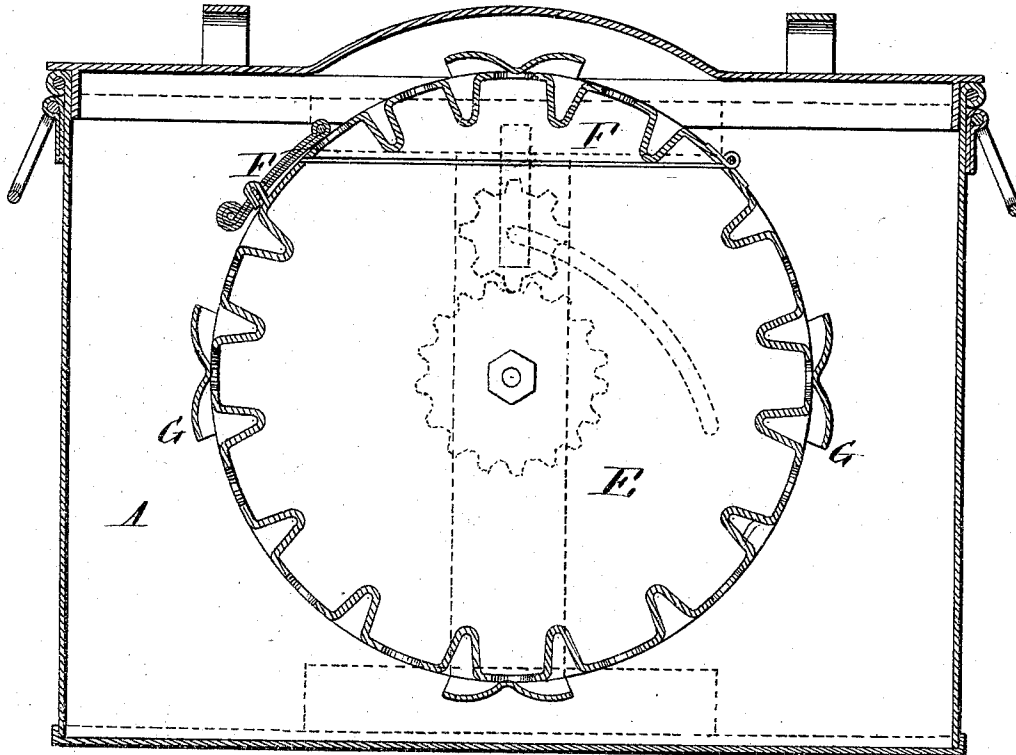
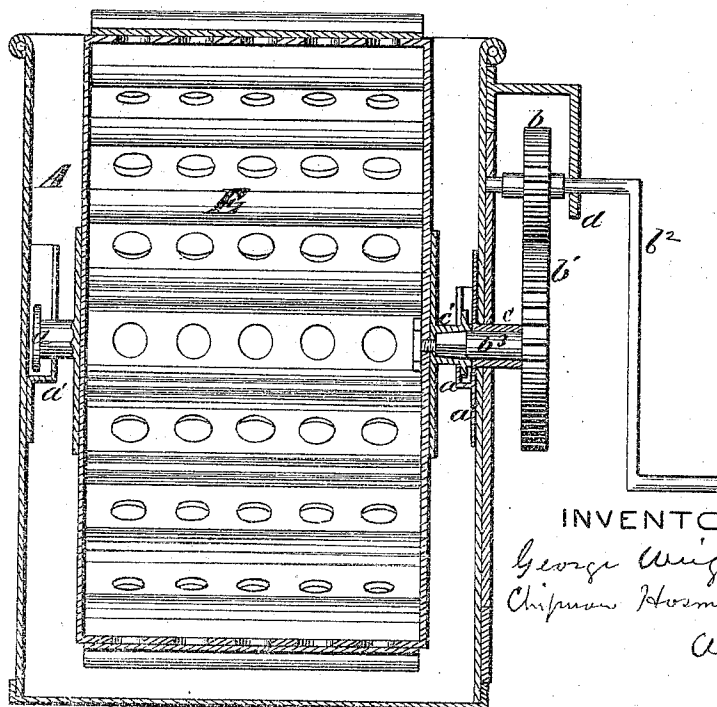


Fig. 2.



WITNESSES

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GEORGE WRIGHT, OF SAVANNAH, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **130,780**, dated August 20, 1872; antedated August 19, 1872.

To all whom it may concern:

Be it known that I, GEORGE WRIGHT, of Savannah, in the county of Andrew and State of Missouri, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal transverse section of my invention. Fig. 2 is a vertical section of the same.

My invention has relation to a washing-machine having a hollow perforated and fluted cylinder to contain the clothes, which are washed by the rotation of it. My invention consists in the construction and arrangement of double curved buckets applied to the outside of a corrugated cylinder for the purpose of forcing the water through the perforations in the wall thereof, between the corrugations.

Referring to the drawing, A represents a water-tank, within which the washing-cylinder rotates. The cylinder-spindles *c c'* are flanged at *a* near their ends, and have their bearings in the flanged boxes *a'*, which are secured to the sides of the tank, as shown. These flanges and flanged bearings prevent the lateral movement or jumping of the cylinder. The flanged boxes are open at the top to allow of the ready insertion and removal of the cylinder. The cylinder is operated by means of the gear-wheels *b b'*. The shaft of *b* has a crank-arm, *b²*. The wheel *b'* is secured to a shaft, *b³*, which passes through a collar or tube, *c*, attached to the tank, thence into the tubular spindle *c'*. The shaft and spindle are correspondingly shouldered so that they will turn together. To remove the cylinder the shaft must be taken out of the tubular spindle. *d* represents a bracket supporting the shaft of the wheel *b*. The inner end of the shaft *b³* is threaded and passes through the head of the cylinder, so that a nut may be put on to hold it in place.

The cylinder is marked E. The body thereof is corrugated or fluted. The ridges between the corrugations are perforated to admit water to the clothes. F represents a hinged door, to be opened for placing in and taking out the clothes. G represents buckets secured to the outside of the cylinder at proper intervals. These buckets are arranged in pairs, their mouths facing in opposite directions, so as to take up water when the cylinder is turned either way. The form of the buckets is concavo-convex, but may be otherwise. The most economical way of constructing the buckets is to press them in pairs from sheets of metal to the form clearly shown in the drawing. After pressing them to the desired form the buckets are to be provided with ends and soldered or otherwise fastened to the cylinder. The buckets are useful for the purpose of forcing water into the cylinder, and as they will pour the water from above so as to cause it to beat the clothes they are of assistance in the cleaning of them.

It will be observed that the buckets are so placed in relation to the corrugations of the cylinder that the latter are made to retain water, thereby increasing the capacity of the buckets and enabling them to carry up a quantity of water as the cylinder revolves, said water to be afterward thrown into the cylinder upon the goods.

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

The washing-machine, provided with a transversely-corrugated cylinder, E, having perforations through its wall between the corrugations, and the double-curved water-guides G, all constructed and arranged substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE WRIGHT.

Witnesses:

A. G. CLARKE,
EDWARD T. DUVAL.