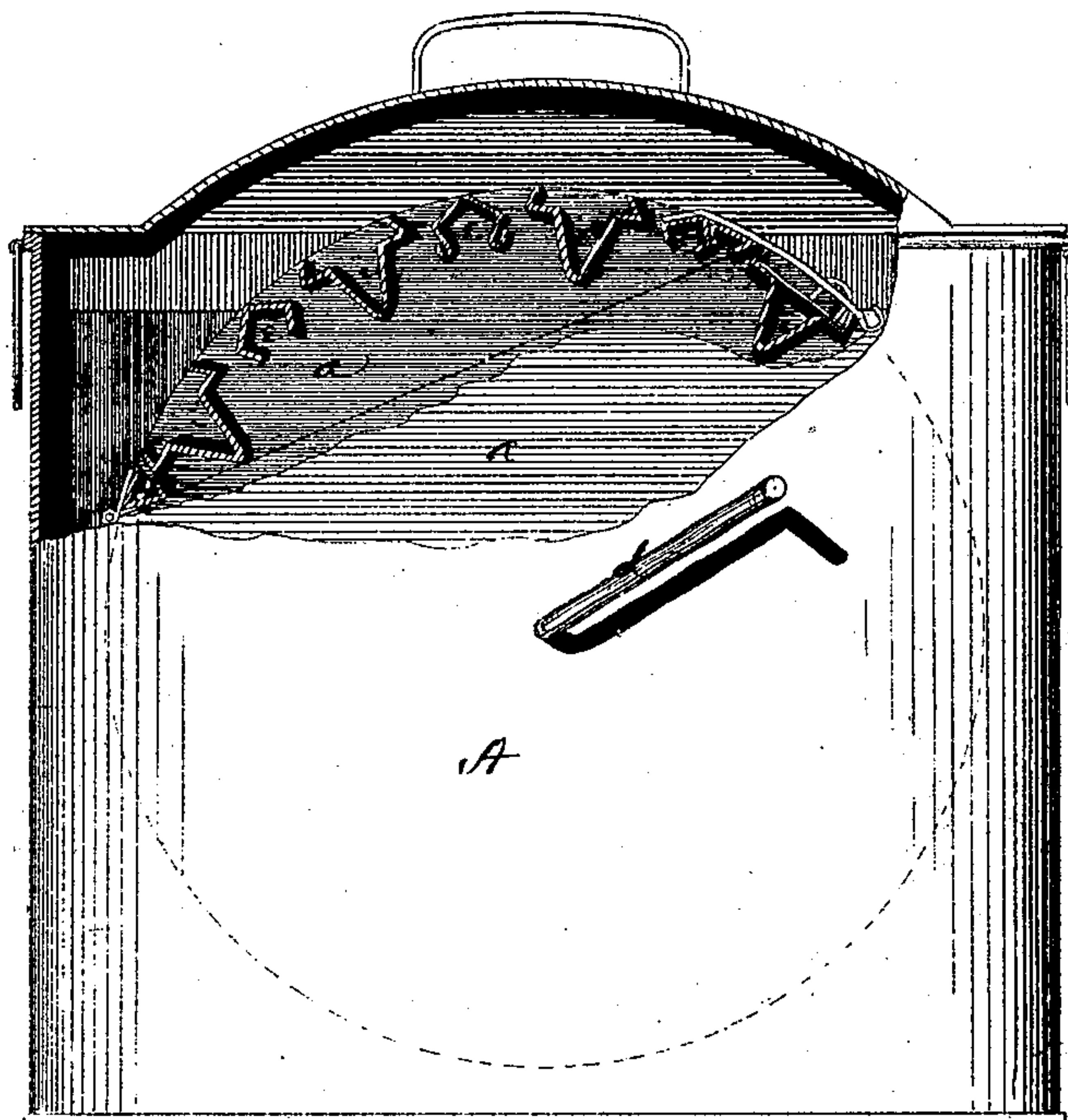
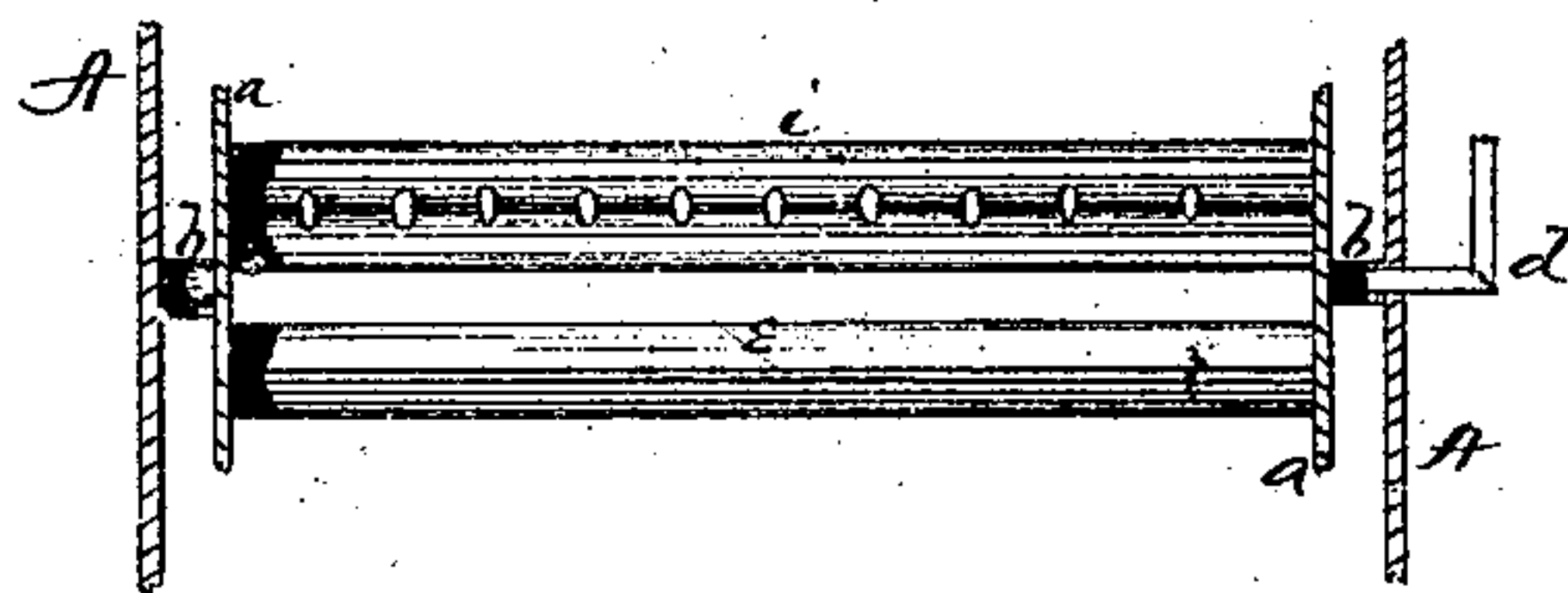


*G. Muhl,*  
*Washing Machine.*  
*No. 95600.      Patented Oct. 5. 1869.*

*Fig 1*



*Fig 2*



Witnesses  
*F. A. Lehmann*  
*C. L. Quest*

Inventor.  
*G. Muhl*  
*Alexander Mearns*

# United States Patent Office.

CHARLES MUHL, OF BLOOMINGTON, ILLINOIS.

Letters Patent No. 95,600, dated October 5, 1869.

## IMPROVED WASHING-MACHINE.

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, CHARLES MUHL, of Bloomington, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvements in Rotary Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of the cylinder of a "rotary washing-machine," said cylinder being formed of a series of troughs, opening, alternately, into and outward from the cylinder.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of a wash-boiler, part in section; and

Figure 2 is a part of the cylinder.

A represents a wash-boiler, of any suitable size, inside of which a cylinder is made to revolve.

This cylinder consists of two heads, *a a*, having each, on its outer side in the centre, a pin or journal, *b*, which rests in suitable supports or boxes in the sides of the boiler A.

One of the journals *b* is hollow, and a crank, *d*, is inserted into the same through the side of the boiler, so as to revolve the cylinder in either direction.

The heads *a a* are connected together by means of a series of alternating troughs, *e e* and *i i*.

The troughs *e e* open internally in the rotary cylinder, while the other troughs, *i i*, open outwardly, and have their inner edge perforated, as seen in fig. 2, by which the water is taken in at the back and poured into the cylinder and upon the clothes when the cylinder is turned.

The troughs *e e* and *i i* are placed suitable distances apart, and along the entire circumference of the heads *a a*, thus forming a cylinder in which the clothes are placed.

The heads *a a* are divided or cut at suitable points, so as to form a lid or cover and body of the cylinder, the said lid being hinged on one side and fastened in any suitable manner on the other.

Having thus fully described my invention,

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

1. A cylinder for washing-machines, constructed as herein described, of the heads *a a* and troughs *e e* and *i i*, the said troughs opening alternately into and outward from the cylinder, substantially as and for the purposes herein set forth.

2. In combination with a wash-boiler, a revolving cylinder, when constructed substantially in the manner described, and for the purposes set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 1st day of September, 1869.

CHARLES MUHL.

Witnesses:

THOS. SLADE,  
W. M. HATCH.