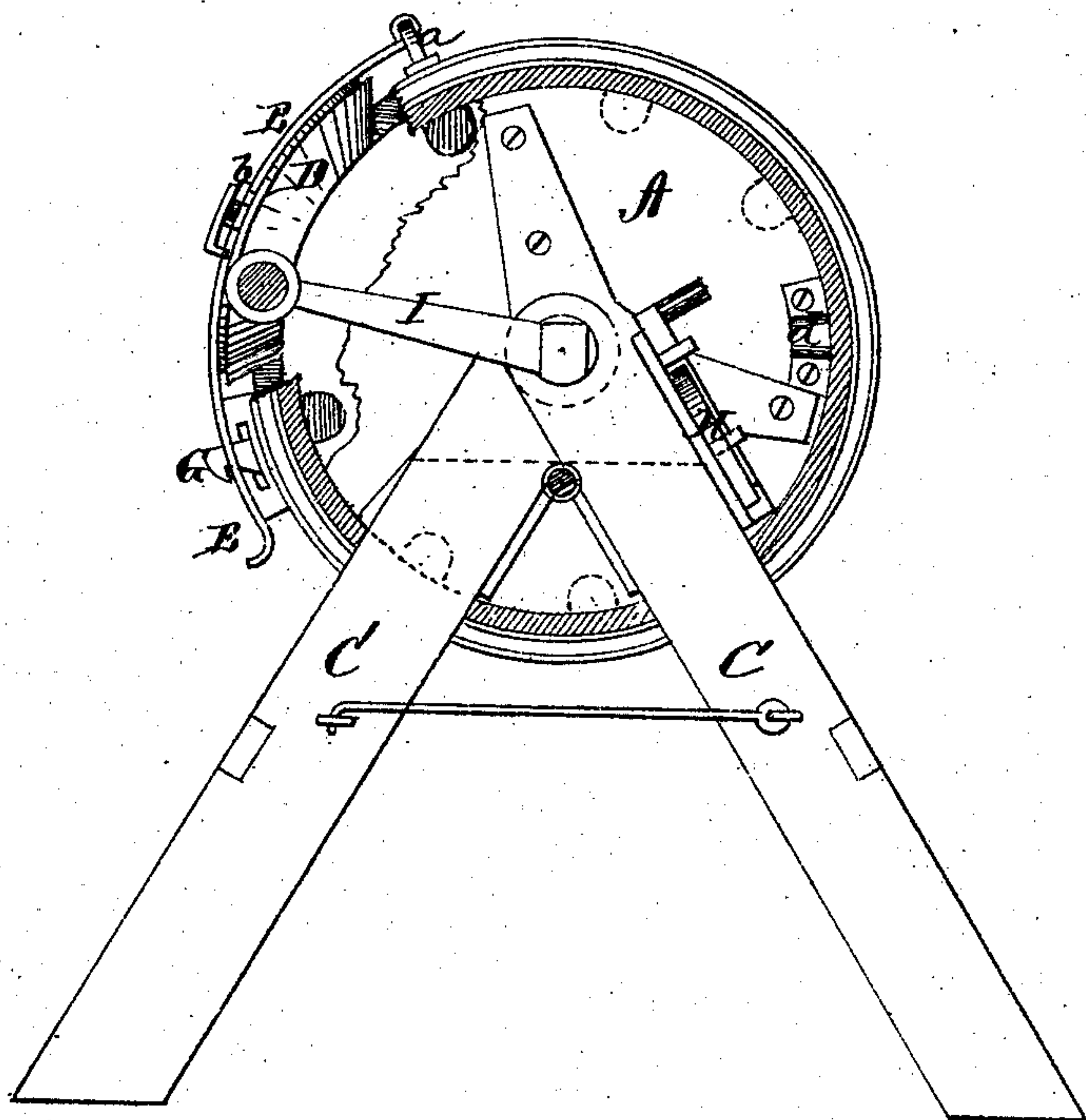
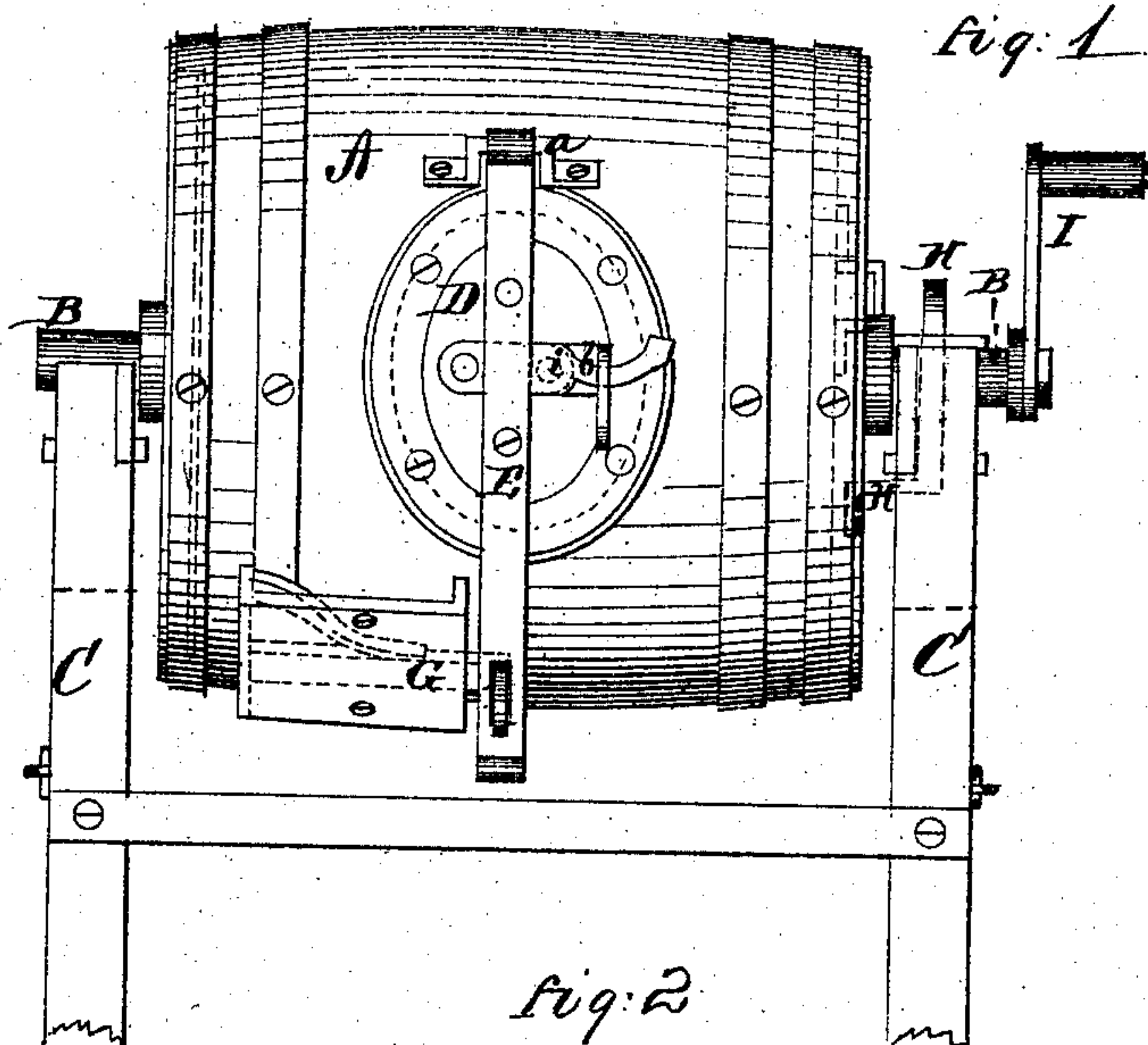


PATENTED JUL 25 1871

# Ebenezer D. Kitchen's Washing Machine.

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Witnesses.

*C. L. Evert.*  
*Jas. E. Hutchinson*

Inventor.

*Ebenezer D. Kitchen,*  
*per* *Alexander Mason*  
*Atty.*

# UNITED STATES PATENT OFFICE.

EBENEZAR D. KITCHEN, OF PINEVILLE, PENNSYLVANIA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 117,429, dated July 25, 1871.

*To all whom it may concern:*

Be it known that I, EBENEZAR D. KITCHEN, of Pineville, in the county of Bucks and in the State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machine; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a washing-machine, as will be hereinafter more fully set forth.

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 drawing, in which—

Figure 1 is a side elevation, and Fig. 2 an end view of my machine.

My machine is in the shape of a barrel, A, provided with ribs *a a* on the inside at suitable intervals, said ribs being convex on their inner edge and running the entire length of the barrel A. On the ends of the barrel A are, in any suitable manner, attached journals B B, which rest upon a stand, C, constructed, as shown, with hinges, so that it can be folded up and put out of the way when not in use. The barrel A is provided with a lid, D, hinged to it by means of a strap, E, fastened to the lid. The metal strip E is hinged to a staple, *a*, on the barrel and fastened by a spring-latch, G, as shown. The lid D is provided with rubber packing around its edges, and a vent, *i*, through it, said vent being covered by a pivoted slide, *b*. For putting in or taking out the clothes and water the barrel A is held in proper position by a latch, H, attached to the stand C and engaging in a staple, *d*, on the end of the barrel. Upon one of the journals B is a crank, I, for turning.

The operation of the machine is as follows: Hot

water is put in the machine, the clothes are saturated, and the dirtiest parts are soaped, then put in the machine and the machine turned at the rate of about fifty revolutions per minute, reversing the motion occasionally. After turning from three to five minutes, owing to the condition of the clothes, they are taken out and boiled in the ordinary way. After the white clothes are all run through, the colored clothes are put in and washed in the same water. That water is then thrown away and the white boiling clothes, water and all, are put into the machine and washed again, as above, which completes the washing, ready for rinsing. By this means all kinds of clothing may be washed perfectly clean without any other rubbing whatever, and without any wear, scarcely. The little valve or vent *i* in the lid is intended to let off the compressed air or steam which generates in the machine. After it has been turned once or twice, open the vent and let it fly off, and then close it again, when there will be no more until another lot of clothes is put in.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The revolving barrel A provided with interior ribs *a a* running longitudinally in the barrel, and the barrel supported upon the hinged support or stand C, substantially as herein set forth.

2. The combination of the revolving barrel A with hinged lid D, strap E, latch G, vent *i*, and cover *b*, with the hinged supports C, provided with latch H and staple *d* on the head of the barrel, all substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of March, 1871.

EBENEZAR D. KITCHEN.

Witnesses:

A. P. SCHURZ,

JOHN D. BRUNNER.