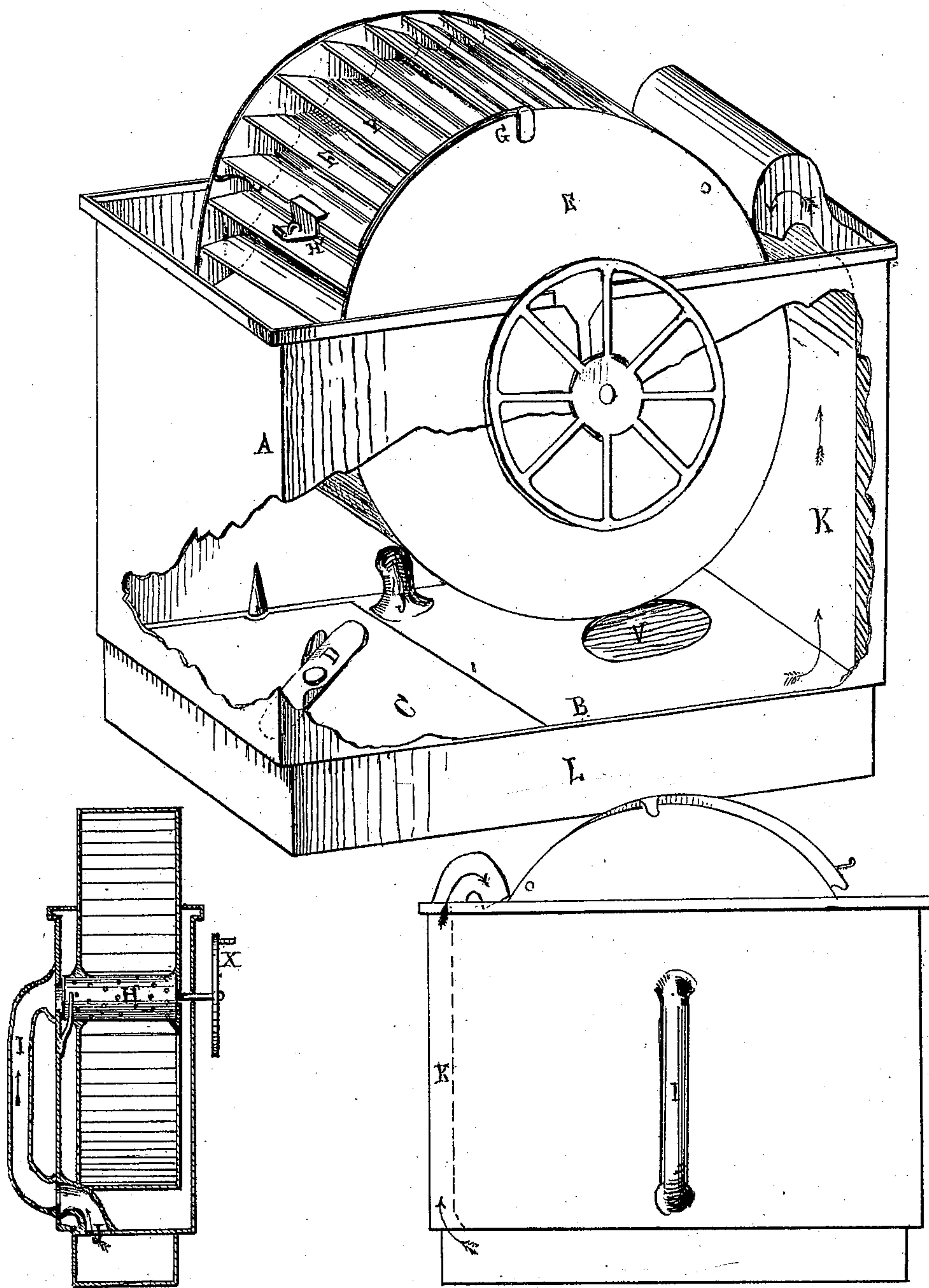


*J. J. Conner,*  
*Washing Machine.*

*No. 96,397.*

*Patented Nov. 2. 1869.*



attest -  
*J. C. Robbins*  
*R. H. Stevens*

*J. J. Conner*  
*My Atty.*  
*Chas. Wolcott*  
*att'y.*



# United States Patent Office.

JOHN D. CONNER, OF BLOOMINGTON, ILLINOIS.

Letters Patent No. 96,397, dated November 2, 1869.

## 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, JOHN D. CONNER, of Bloomington, in the county of McLean, in the State of Illinois, have invented a new and useful Improvement in "Wash-Boilers;" and that the following description, taken in connection with the accompanying plate of drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from others of a similar class, together with such parts as I claim, and desire to secure by Letters Patent.

My invention relates to that class of wash-boilers in which currents of water are made to flow from the bottom to the top, and to certain modifications in the details of the same, whereby the water, after rising through the flues of conduction, is thrown in and upon a revolving wheel, containing the clothing to be cleansed, imparting rotary motion to the same, and throwing a constant stream of water thereon.

In the accompanying plate of drawings, which illustrates my invention, and forms a part of this specification thereof—

Figure 1 is a perspective view.

Figure 2 is a side elevation.

Figure 3 is a vertical section.

A represents the outer shell of the boiler.

B is a secondary bottom, having the lid or door C and the valve D.

The lid or door C is provided with a pivoted lever, D, which catches in niches in the sides of the shell of the boiler, and secures the said door firmly in position.

E is an overshot wheel, with buckets F. A portion of the periphery of the wheel is hinged at the point, marked G, and provided with a catch, at the point marked H, thus constituting a door, which may be opened for the reception of clothes, and afterward shut, and secured in position, when the wheel is put in motion.

The axis of the wheel is a perforated cylinder, H, into which water is ejected from the cylindrical flue I.

The said cylindrical flue passes through the shell of the boiler, and is soldered to the secondary bottom, at the point J.

Instead of using the perforated cylinder or shaft H, the water from the cylindrical flue may be thrown directly into the wheel through the perforation, to which the said cylinder is soldered; or the said cylinder may be cut off at any distance from the end of the same at

which the water enters, instead of extending entirely through the wheel, in order to facilitate the removal of the clothes.

K represents the flue for conducting the upward current of water, and throwing it upon the wheel.

V is a valve, which may be secured to the under side of the boiler, in the manner deemed most convenient.

L is the water-reservoir, made of such a form as may be required to fit the stove made use of.

X is a crank, by means of which the wheel may be revolved, when it is necessary to accelerate the motion of the same.

Having thus described the construction of my invention, I will proceed to indicate its operation.

The clothes to be washed having been placed within the wheel E, the reservoir L is filled with water, and the lid C closed, and secured in position by means of the lever-catch D. Heat is then applied to the boiler, in the usual manner, and, when the point of ebullition is reached, the valve V will be firmly closed by the pressure evolved, and the water is forced upward through the flue K, in the direction indicated by the darts upon the wheel E; and, having imparted motion to the said wheel, the water falls upon the secondary bottom of the boiler, and returns to the reservoir through the valve V, which opens upon the lessening of the pressure within the reservoir. The water is also forced upward, through the cylindrical pipe I, into the perforated cylinder H, and gushes, through the perforations of the cylinder, upon the clothes, which are being rotated within the wheel.

Having thus described the combination and operation of my invention, I will set forth my claim in the following clauses:

I claim, and desire to secure by Letters Patent—

1. The wheel E, with the buckets F, and perforated cylinder H, in combination with the flue K, when arranged and operated substantially as described.

2. The reservoir L, with the door C and valve V, in combination with the flues K and I and perforated cylinder H, when arranged as herein described.

3. The combination and arrangement of the wheel E, valves K and I, perforated cylinder H, and secondary bottom B, substantially as described.

JOHN D. CONNER.

Witnesses:

JOHN M. LONGSTRETH,  
A. J. MERRIMAN.