J. T. BROWN.

STEAM WASH BOILER.

No. 174,469. Patented March 7, 1876.

Fig. 1

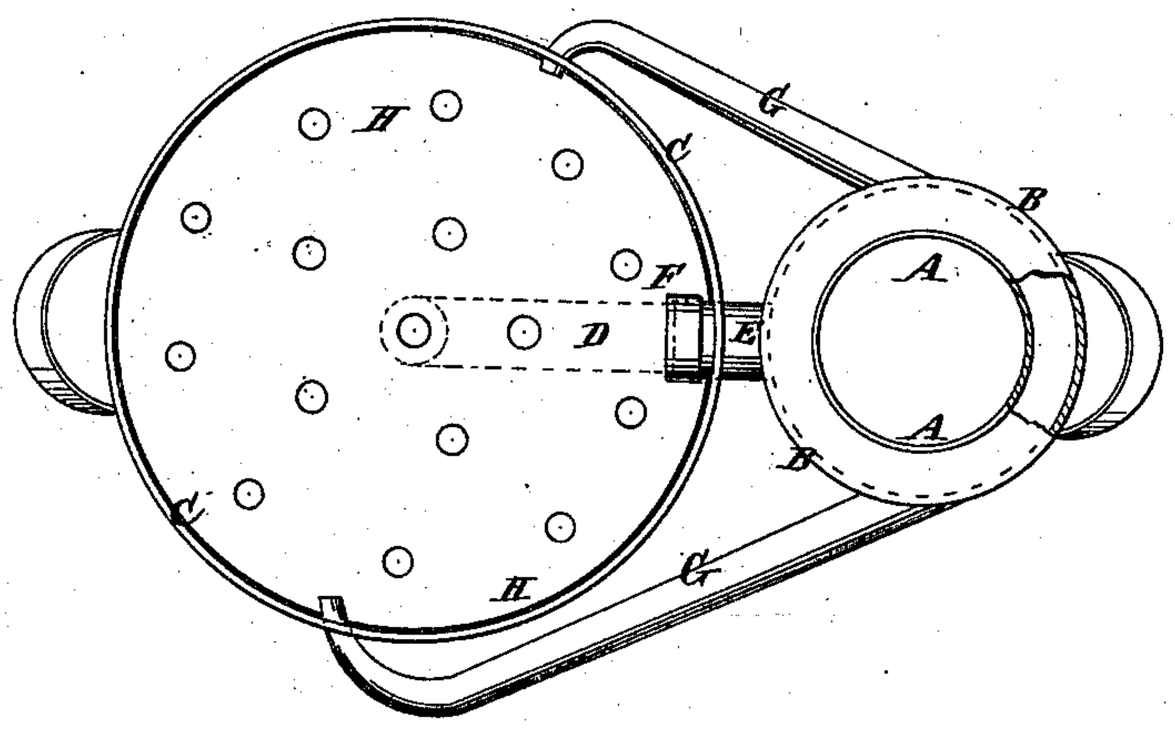
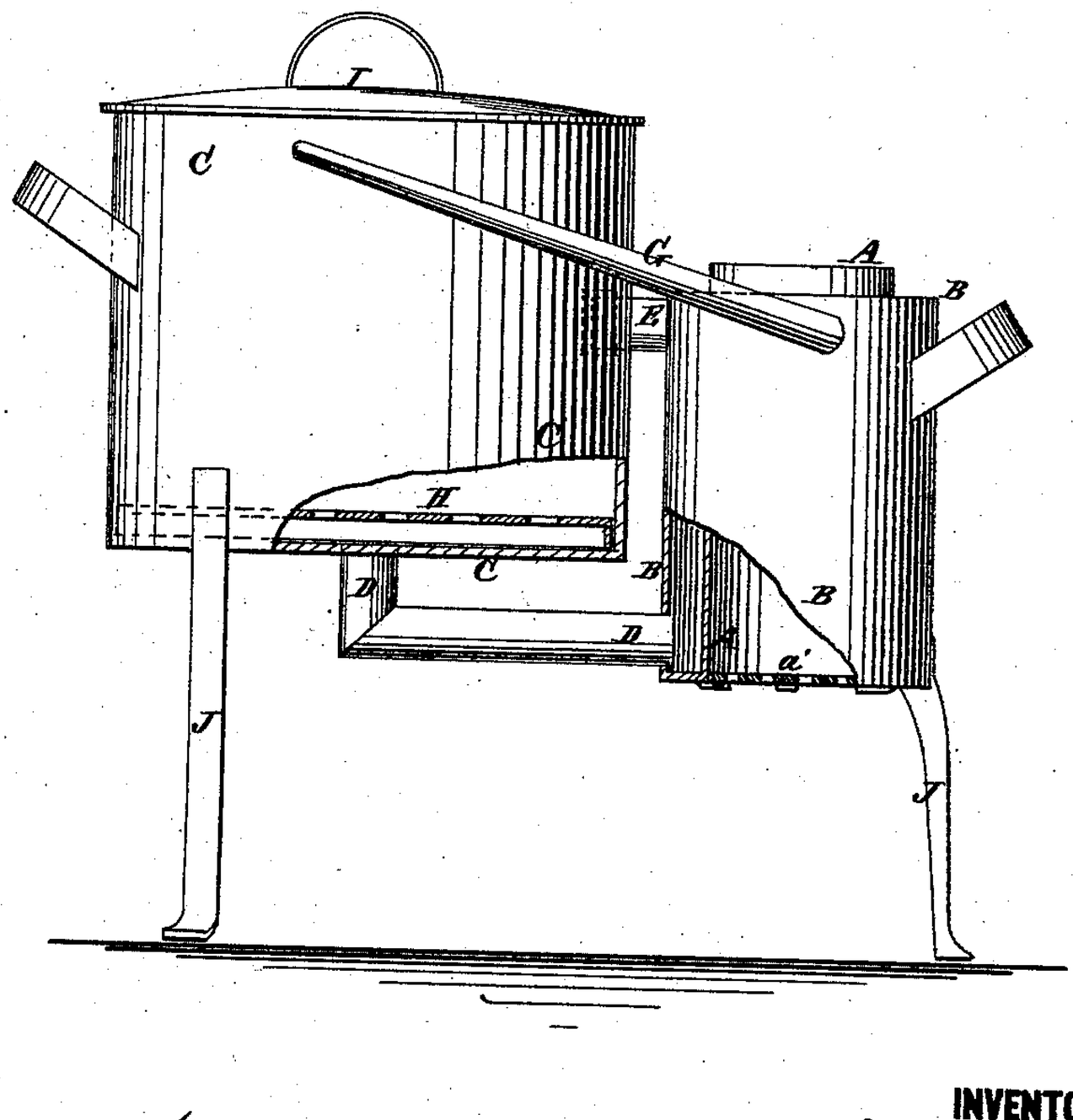


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES T. BROWN, OF SARANAC, MICHIGAN, ASSIGNOR TO HIMSELF AND MARION CRANE, OF SAME PLACE.

IMPROVEMENT IN STEAM WASH-BOILERS.

Specification forming part of Letters Patent No. **174,469**, dated March 7, 1876; application filed December 18, 1875.

To all whom it may concern:

Be it known that I, JAMES T. BROWN, of Saranac, in the county of Ionia and State of Michigan, have invented a new and useful Improvement in Steam Wash-Boiler, of which the following is a specification:

Figure 1 is a top view of my improved wash-boiler, the cover being removed, and part being broken away to show the construction. Fig. 2 is a side view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

The object of this invention is to improve the construction of the boiler known as the Munger boiler, so as to make it more convenient in use and more effective in operation.

The invention consists in connecting a furnace and heater with boiler by pipes placed as and for the purpose specified hereinafter.

A is the furnace, which is made tubular in form and open at both ends, and has a grate, *a'*, at its lower end to receive the fire. The furnace A is surrounded with a case, B, of a greater diameter, and connected at its upper and lower ends with the said furnace A, so as to form a ring-chamber to receive water to be heated. The water-heater A B is placed at a little lower level than the boiler C, that receives the clothes, and is connected with said boiler C by the pipes D and E. The pipe D is connected at one end with the lower part of the water-heating chamber B, and its other end enters the middle part of the bottom of the boiler C. The pipe E is connected at one end with the upper part of the water-heating chamber B, and its other end enters the middle part of the side of the boiler C, and projects within said boiler far enough to receive the cap F upon said end. G are two pipes, the lower ends of which are connected with the opposite sides of the upper part of the water-heating chamber B, and their upper ends are curved inward, and are connected with the opposite sides of the boiler C, near its top. The boiler C is provided with a false bottom, H, which is perforated, and has a flange upon its lower side to rest upon the bottom of the boiler C. The false bottom H keeps the clothes from resting upon bottom of the boiler C, and being forced into the pipe D, while its perforations allow the water to pass through freely. The boiler C is provided with a closely-fitting cover, I, to confine the steam while the washing is being done.

The machine is provided with legs J of such a length as to support it at a convenient height.

In using the machine, the cap F is removed, and water is poured into the boiler C until it stands above the level of the pipe E. The fire is then started, and when the water is hot a part of said water is dipped out, and the clothes are put in, care being taken to spread them out evenly. The cap F is then put upon the end of the pipe E, and the cover I is put on. The water and steam pass up through the pipes G, are discharged upon the clothes, pass through the clothes, and pass back to the heater A B through the pipe D, washing the clothes very quickly.

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

The furnace A and heater B, arranged as shown and described, and connected with boiler by means of pipes D E G, as and for the purpose set forth.

JAMES T. BROWN.

Witnesses:

MARION CRANE,

JOHN D. SACKETT.