

S. ROOT.

BOILER WASHING-MACHINE.

No. 173,420.

Patented Feb. 15, 1876.

Fig. 1

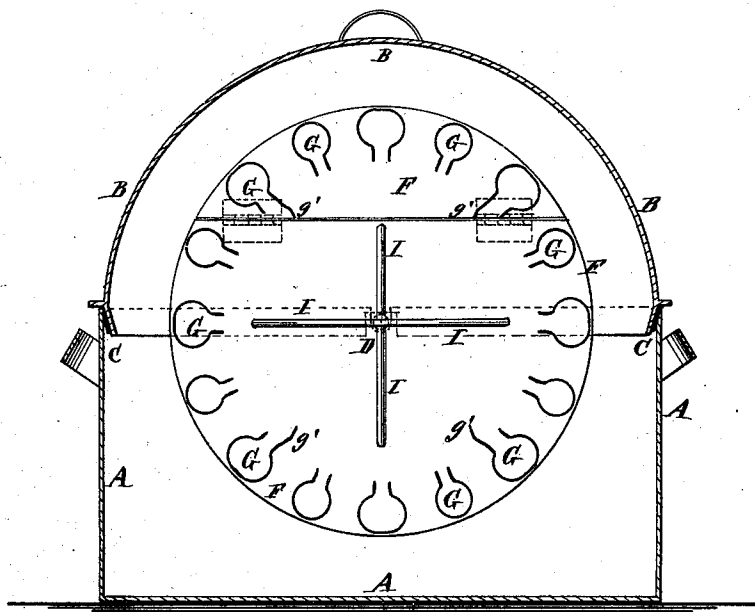
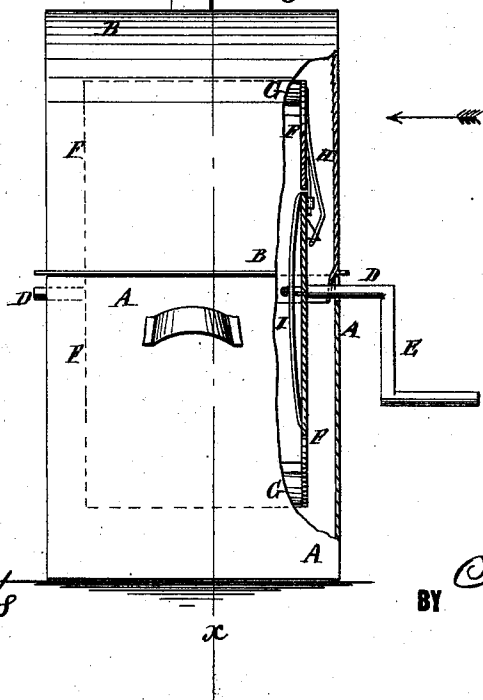


Fig. 2



WITNESSES:

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SYLVESTER ROOT, OF KENTLAND, INDIANA.

IMPROVEMENT IN BOILER WASHING-MACHINES.

Specification forming part of Letters Patent No. **173,420**, dated February 15, 1876; application filed October 8, 1875.

To all whom it may concern:

Be it known that I, SYLVESTER ROOT, of Kentland, in the county of Newton and State of Indiana, have invented a new and useful Improvement in Clothes-Washer, of which the following is a specification:

Figure 1 is a vertical section of my improved machine, taken through the line *xx*, Fig. 2. Fig. 2 is an end 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 furnish an improved clothes-washer, which shall be so constructed as to keep the clothes in motion while being washed, and constantly discharge streams or sheets of water upon them, so that the dirt will be removed in a very short time.

The invention is an improvement in the class of boiler washing-machines in which the clothes are placed in a revolving cylinder provided with transverse tubes or troughs for carrying up and discharging water upon the clothes.

The improvement relates to the form or construction, and also the arrangement of the tubes, whereby certain advantages are attained, as hereinafter set forth.

The body of the boiler is rectangular in form, and provided with an arched cover, B. The flange of the cover is encircled by a rubber band, C, to form a tight joint. The rotating cylinder is provided with journals D, one of which is to extended form a crank, E, as shown. The sides of the cylinder are formed of two circular disks, F, and its periphery by separated but parallel transverse tubes G,

which are circular in cross-section, and have elongated necks. This form of the tubes, and their arrangement with the necks opening directly toward the axis of the cylinder, secure the following advantages: The necks or lips of the tubes take hold of the clothes and carry them up, and also turn them as the cylinder rotates. The lips, likewise, practically enlarge the capacity of the tubes, and confine a portion of the water contained in them till the cylinder has rotated nearly half round, so that the water is discharged nearer the middle of the cylinder than in other machines of this class. It results that the clothes are changed in position, and thoroughly subjected to the rinsing action of water at each rotation of the cylinder. The narrowness of the necks of the tubes also prevents the deposit of any considerable portion of dirt or sediment in the tubes, without, also, hindering the proper entrance and discharge of water, which is a desideratum.

I have shown the lips *g'* of certain tubes extended to enable them to carry the clothes up higher—that is, nearly to the top of the cylinder.

I claim—

In a boiler washing-machine, the tubes G, forming the periphery of cylinder F, having the form shown, and arranged with their contracted and extended necks opening toward the axis of the cylinder, as and for the purpose specified.

SYLVESTER ROOT.

Witnesses:

EDWARD ROOT,
JOHN HUBERTZ.