W. E. RICE & J. BARNES.

Wash-Boiler Attachments.

No. 139,918. Patented June 17, 1873.

*Fig. 1*

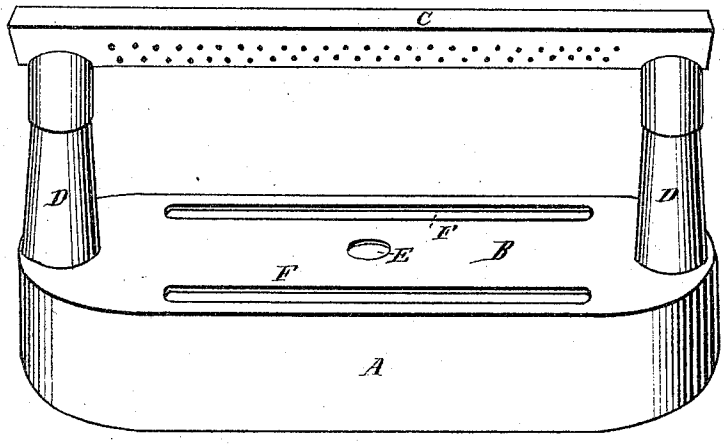



*Fig. 2*

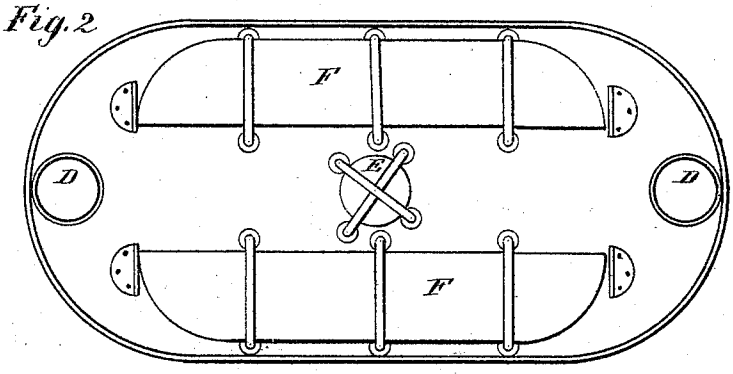



*Fig. 3*

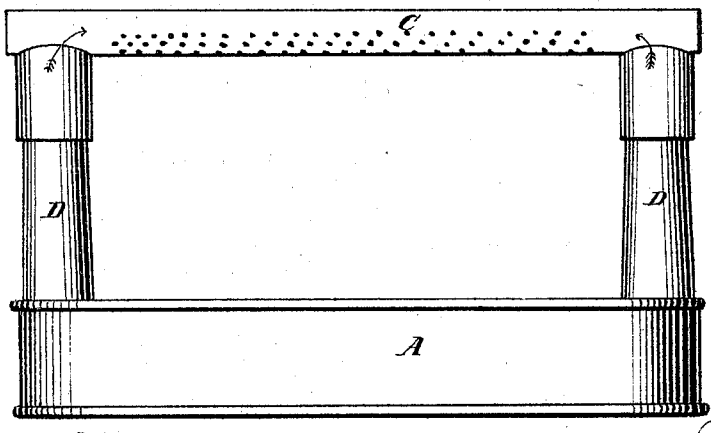
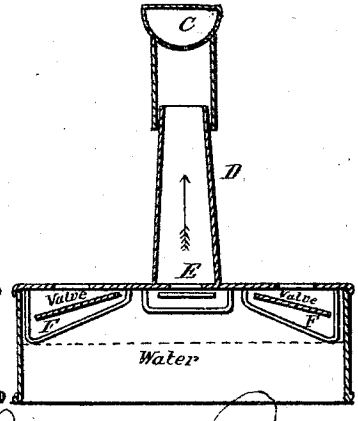



*Fig. 4*




Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM E. RICE AND JOSHUA BARNES, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN WASH-BOILER ATTACHMENTS.

Specification forming part of Letters Patent No. **139,918**, dated June 17, 1873; application filed September 7, 1872.

*To all whom it may concern:*

Be it known that we, JOSHUA BARNES and WILLIAM E. RICE, of Brooklyn, Kings county, State of New York, have invented certain Improvements in Apparatus for the Washing of Clothes, of which the following is a specification:

It is called the "Self-Acting Clothes-Washer."

Figure 1, perspective view; Fig. 2, plan of the under side; Fig. 3, side elevation; Fig. 4, transverse section.

A, the body that sits down into the wash kettle or boiler; B, the top of the same, in which are the valves; C, the perforated tube for showering the clothes to be washed; D, perpendicular conduits at the ends; E, the center valve; F, the two side valves.

This apparatus has an open bottom, and is made to sit down in the boiler, in which there is put about two inches of water. Upon the top of it, at B, the clothes to be washed are placed, with soap, as usual, and by the boiling alone the work is effected. It takes about fifteen minutes. At the boiling of the water the steam shuts the valves E F, and the pressure forces the boiling water up the conduits D and into the perforated tube C, where it falls in a violent shower upon the clothes. The water returns to the bottom of the boiler and is again and ever thrown up through the conduits D and showered upon the clothes, till the work is complete.

The perforated tube C is removable or fixed. The valves E and F are simply loose pieces, held in place by wires across. It never needs to be hung upon hinges. The showering-tube C is perforated, or may have slots to allow the water to fall or shower upon the clothes.

It will be seen that the open-bottom vessel A, with all its attachments, is adapted to use in an ordinary cooking-stove boiler by simply setting it down therein, and can instantly be so inserted or removed.

We claim—

In combination with the open-bottom vessel A adapted to sit down in an ordinary boiler, as described, the valves E and F, the vertical conduits D D, and the shower-tube C, all constructed and arranged to operate substantially as described.

W. E. RICE.
JOSHUA BARNES.

Witnesses:
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