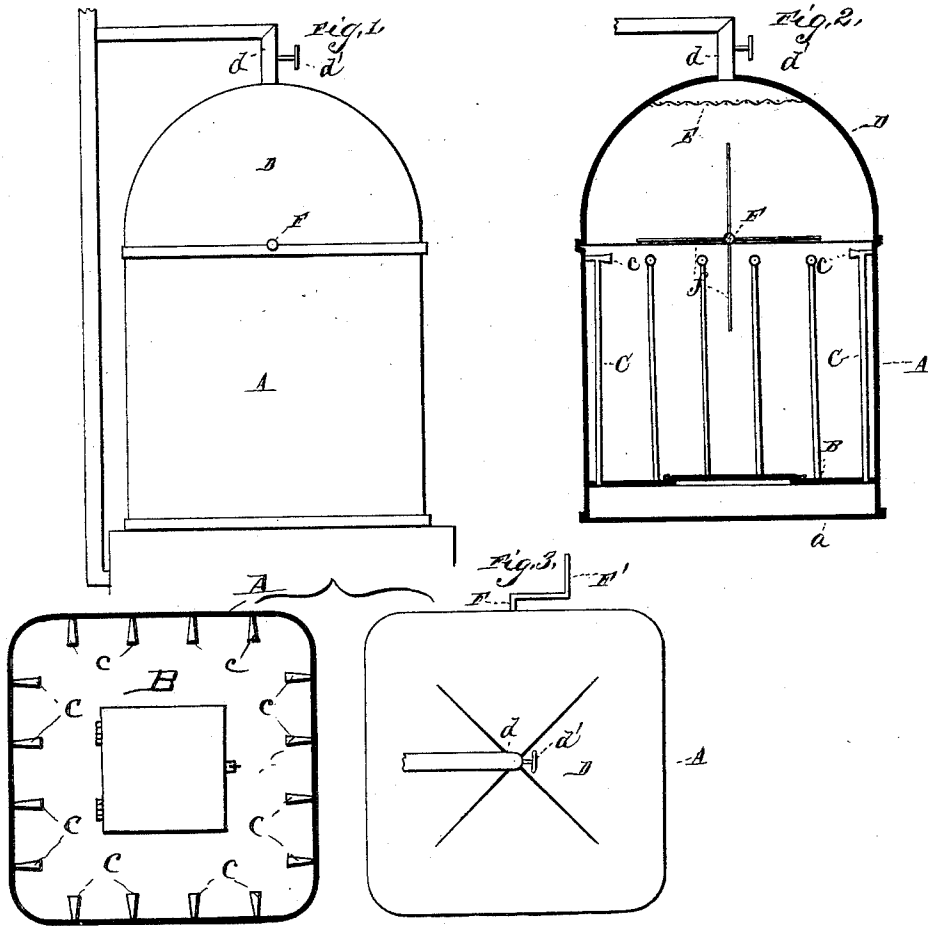


(No Model.)

F. S. DOWELL.
WASHING MACHINE.

No. 462,629.

Patented Nov. 3, 1891.



WITNESSES:
Chas. B. Taylor,
Philippe Masci.

INVENTOR
Frances S. Dowell
BY *E. W. Anderson*
Per ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANCES S. DOWELL, OF EUREKA SPRINGS, ARKANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 462,629, dated November 3, 1891.

Application filed February 18, 1891. Serial No. 381,991. (No model.)

To all whom it may concern:

Be it known that I, FRANCES S. DOWELL, a citizen of the United States, residing at Eureka Springs, in the county of Carroll and State of Arkansas, have invented certain new and useful Improvements in Steam-Washers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying-ings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side view, illustrating this invention. Fig. 2 is a sectional view of the same. Fig. 3 is a top plan view with the cam removed.

This invention has relation to combined steam-washers; and it consists in the novel construction and combination of parts, as hereinafter described.

In the accompanying drawings illustrating the invention, the letter A designates a boiler of any suitable size and adapted to fit on the top of a stove or range. A short distance above the bottom A of this boiler is secured a false bottom B, having at its center a trap-door to allow water to pass through between the two bottoms.

C C represent a series of small pipes vertically arranged around the inner periphery of the boiler and secured to the sides thereof. These pipes extend to the lower surface of the false bottom at their lower ends, their upper ends terminating each in a funnel-shaped mouth *c* a few inches below the top of the boiler.

D is the dome-shaped cover having the steam-outlet pipe *d*, in which is located the damper or valve *d'*, by the operation of which the escape of the steam is cut off or regulated. This outlet-pipe may be connected with the smoke-pipe of the stove, as shown, so

that all steam and odor are carried off and prevented from circulating in the room. In the top of the dome beneath the escape-opening is the perforated piece or diaphragm E, which serves to prevent the clothes placed in the boiler from clogging up the outlet and also prevents, to a large extent, water from being forced out through said outlet by the force of the steam. A horizontal shaft F is journaled in the cover projecting there-through at one side and having an operating-crank F'. On the interior of the boiler this shaft carries a series of radial arms *f*, which when the shaft is turned will keep the clothes in agitation.

The clothes to be washed are placed upon the false bottom, and as the water underneath becomes heated steam and jets of water will be thrown up through the pipes C upon and over the clothes, which, as they are agitated by the arms *f*, will be thoroughly operated on thereby. When the pressure of steam in the boiler becomes so great as to lift the lid, the damper *d'* may be turned, permitting its escape into the chimney.

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

A steam-washer comprising the receptacle having a false bottom therein, a series of tubes or pipes extending through said bottom at their lower ends and terminating at their upper ends in inwardly-turned funnel-mouths, and an agitator-shaft journaled horizontally in said boiler and having its arms working in a vertical plane, said boiler also having a steam-outlet and a damper controlling said outlet, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCES S. DOWELL.

Witnesses:

M. MILLER,

GEORGE A. DOWELL.