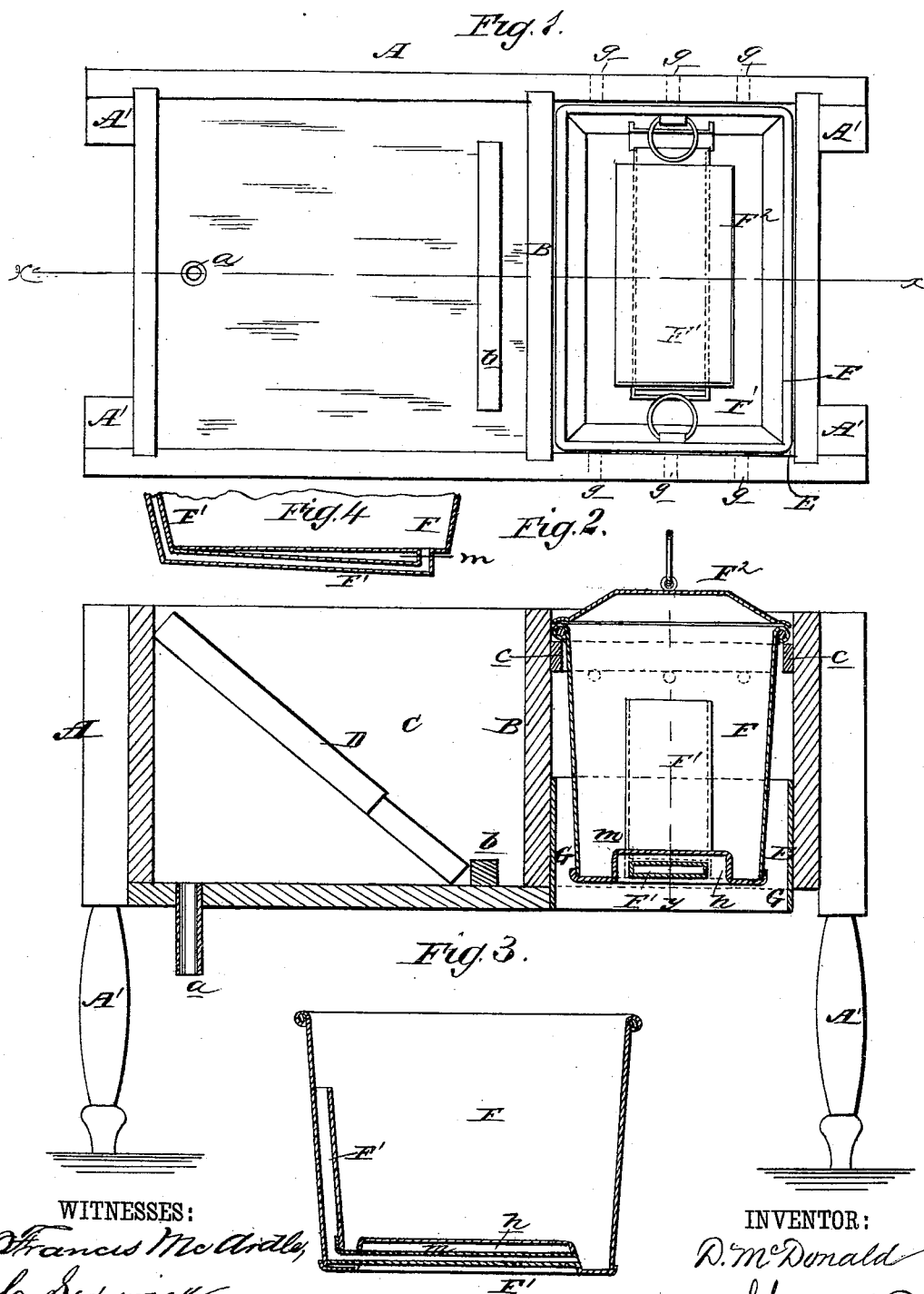


(Model.)

D. McDONALD.  
CLOTHES WASHING APPARATUS.

No. 262,807.

Patented Aug. 15, 1882.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

DENNIS McDONALD, OF NIAGARA FALLS, NEW YORK.

## CLOTHES-WASHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 262,807, dated August 15, 1882.

Application filed April 28, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, DENNIS McDONALD, of Niagara Falls, in the county of Niagara and State of New York, have invented a new and Improved Clothes-Washing Apparatus, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

10 The object of this invention is to provide an inexpensive, simple, and convenient device or apparatus especially adapted to be used in connection with an oil or gas stove for cleansing clothes.

15 The invention consists of a fountain-boiler having a concave or recessed bottom and a flattened circulating-pipe below its bottom, and a suitable frame for supporting the boiler over an oil or gas stove, which frame also contains a wash-tub, as hereinafter described.

20 In the accompanying drawings, Figure 1 is a plan view of my improved clothes-washing apparatus. Fig. 2 is a sectional side elevation of the same on line *x x* of Fig. 1. Fig. 3 is an enlarged sectional elevation of a portion of the boiler on line *y y* of Fig. 2; and Fig. 4 is a partial sectional elevation, showing a modified form of boiler.

Referring to the drawings, A represents a 30 rectangular frame supported on legs A' A', and divided by a vertical partition, B, into two compartments, one of which, C, is designed as a wash-tub, and has in its bottom an orifice, *a*, for emptying it. A cross-bar, *b*, 35 is fixed in the bottom of the tub C to serve as a bearing for the lower end of the wash-board D when the latter is in use.

40 The compartment E is open at the bottom, and has fixed on its sides, near its top, strips or ledges *c c*, that serve to support the boiler F, which is thereby suspended within said compartment E, with its top nearly on a level with the top thereof and its bottom extending nearly to the bottom thereof. The boiler F 45 has sloping sides and ends narrowing toward the bottom for the purpose of affording ample room about it for the circulation of the hot air and products of combustion from the stove that is designed to be placed beneath it.

In order to utilize in as great a degree as 50 possible the heat from the stove or other source of heat, and to create an improved circulation of water within the boiler F, said boiler F is provided with a flattened water-circulating pipe, F', open at both ends, and extending 55 from about half-way up the boiler on the inside thereof at one end, down through the bottom, thence along the whole length thereof in the concavity *h*, and up through the bottom again and on a level with the inside thereof. 60 This pipe F' is for the most of its horizontal extension a short distance away from the bottom of the boiler F, so that a space, *m*, is left between them for the free circulation of hot air and gases when used in combination with 65 the frame.

Instead of constructing the boiler with the flattened pipe arranged in a concavity in its bottom, the concavity may be dispensed with, and the flattened pipe secured underneath the 70 boiler and connected therewith, as shown in Fig. 4. It will be observed that the upward extension of the pipe F' is formed by means of a plate secured to the wall of the boiler, whereby the column of water is brought nearer 75 to the source of heat than in other fountain-boilers, and the extension is thus made cheaper in its construction.

I do not confine myself to the precise construction of boiler herein shown, as it is manifest that modifications may be made therein 80 without departing from my invention—as, for instance, the boiler may be of any convenient shape, instead of rectangular, and the sides may be made vertical instead of converg- 85 ing toward the bottom.

The lower part of the compartment E is lined with sheet metal G to protect the wood from the heat of the stove, and ventilating-orifices *g* are formed through the sides of said 90 compartment E for the escape of the gases and other products of combustion arising from the stove, and to induce a free circulation of hot air about the boiler F.

F<sup>2</sup> represents the cover of the boiler. 95

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

1. A clothes-washing apparatus consisting of the frame A, containing the wash-tub C, the boiler-receptacle E, provided with the lining G and ventilating-orifices g, and the removable boiler F, provided with the flattened water-circulating pipe F', substantially as shown and described.
2. The combination of the boiler F, having a concavity or recess in the bottom, and the flattened water-circulating pipe F', arranged within the said concavity or recess and terminating within said boiler, substantially as shown and described.

DENNIS McDONALD.

Witnesses:

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H. J. WARE.