T. A. H. CAMERON.
Washing-Machine.

No. 221,443. Patented Nov. 11, 1879.

Fig. 1.

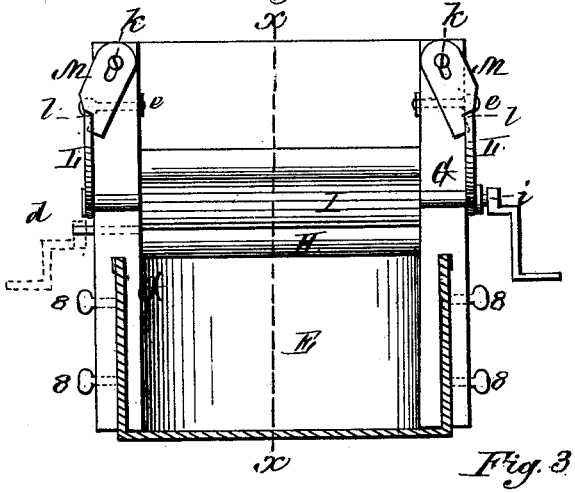


Fig. 2.

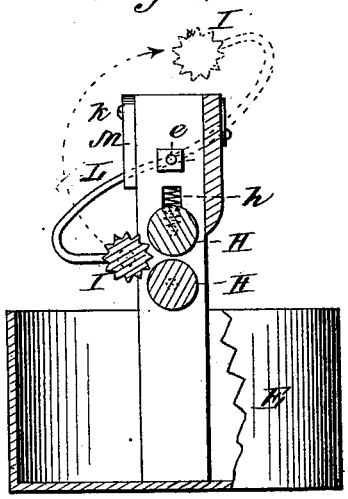


Fig. 3

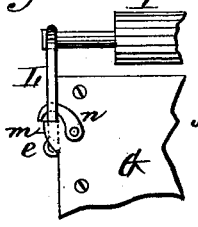
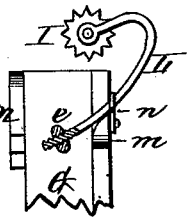


Fig. 4



Attest:
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UNITED STATES PATENT OFFICE.

TILMON A. H. CAMERON, OF SLATER, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **221,443**, dated November 11, 1879; application filed July 7, 1879.

To all whom it may concern:

Be it known that I, TILMON A. H. CAMERON, of Slater, in the county of Saline and State of Missouri, have invented an Improved Washing-Machine, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a front elevation of my improved washing-machine. Fig. 2 is a vertical section on the line *x x* of Fig. 1, the fluted roll being elevated. Figs. 3 and 4 represent the devices I employ for holding the fluted roll when swung up out of the way.

My present invention consists in a construction and arrangement of the parts of a washing-machine, as hereinafter more particularly described, and pointed out in the claims.

To enable others skilled in the art to understand my invention, I will proceed to describe the manner in which I have carried it out.

In the accompanying drawings, E is a hot-water reservoir or wash-boiler, to which is clamped, by screws 8 8, an upright frame, G, having a pair of smooth rolls, H H, mounted therein; also, connected with the frame G is a fluted roll, I, having its bearings in the lower ends of curved spring-arms L L, the upper ends of which pass through eyes in bolts *e e*, turning loosely in the frame. The tension of these spring-arms may be regulated by nuts turning over screw-threads cut thereon. (See Fig. 4.)

After being placed in the tub of warm water, the clothes are passed back and forth through the smooth rolls by turning the crank *d*, secured to the shaft of the lower roll, the degree of pressure of the upper roll thereon being regulated by springs *h h*, located within the housings, and bearing down upon the shaft of the upper roll.

Should any streaks of dirt remain after passing through the smooth rolls H H, the clothes are subjected to additional and greater friction by turning a crank, *i*, on the end of the shaft of the fluted roll I, which is swung down opposite the space between the two smooth rolls and held in this position by buttons M M, pivoted to the frame at *k*, and provided with shoulders *l*, which are swung over the tops of the spring-arms L L. Simultaneous with the action of the fluted roll on the clothes warm water should be poured upon them.

Should the fluted roll I not be required for use, it is simply necessary to elevate it by swinging the spring-arms L L over until they rest upon projecting stops *m m* on the sides of the frame, in which position they are prevented from being accidentally thrown down by hooks *n n*, pivoted to the back of the frame.

I claim—

1. The smooth rolls H H, mounted in the frame G, in combination with the fluted roll I, connected therewith by spring-arms L L, and capable of being brought to bear against the smooth rolls, substantially as described.

2. The combination, with the rollers H H and fluted roller I, journaled in pivoted spring-arms L L, of the buttons M M, substantially as described, and for the purpose set forth.

Witness my hand this 13th day of June, 1879.

TILMON A. H. CAMERON.

In presence of—

JAC. VANDYKE,

ED. T. OREAR.