

G. G. CAMPBELL.

Washing Machine.

No. 52,265.

Patented Jan'y 30, 1866.

Fig. 1

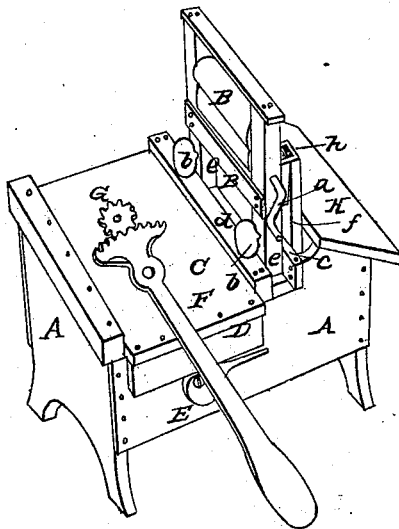


Fig. 2

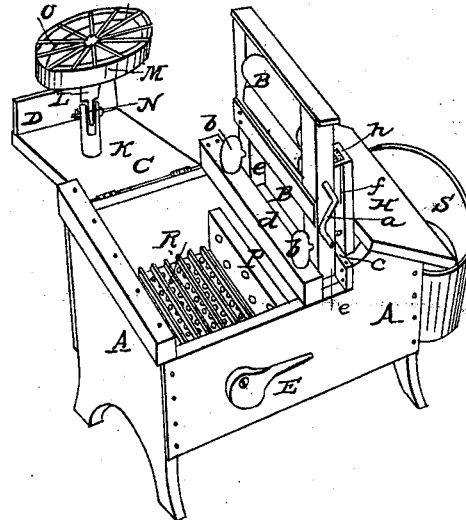


Fig. 4

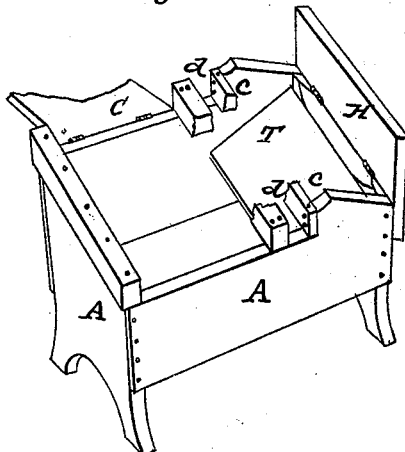
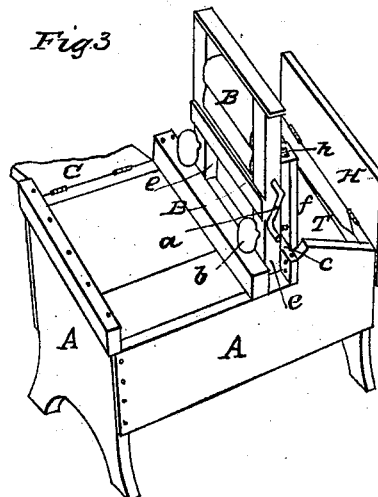


Fig. 3



WITNESSES

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GEORGE G. CAMPBELL, OF JANESVILLE, WISCONSIN.

WASHING-MACHINE.

Specification forming part of Letters Patent No. 52,265, dated January 30, 1866.

To all whom it may concern:

Be it known that I, GEORGE G. CAMPBELL, of the city of Janesville, in the county of Rock and State of Wisconsin, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a view in perspective with the machine closed, as when washing. Fig. 2 is a view in perspective with the machine open, as when the wringer is ordinarily used. Fig. 3 is a view in perspective with the machine open, as when the wringer is used to "suds" the clothes; and Fig. 4 is the same as Fig. 3, with the wringer removed and parts broken away, so as to show the lower apron, T.

Similar letters of reference denote the same parts.

To enable others skilled in the mechanical arts to make and use my invention, I will proceed to describe its construction and operation.

I construct my washing-machine somewhat more than ordinarily elongated, though otherwise of any suitable form or size, providing it with a box, A A, rotary presser or rubber M, a central support, c, for wringer, and the inclined aprons H T, for guiding the clothes, after being run through the wringer, either into the tub S or back again into the machine. The presser or rubber M has a dishing or concave lower face, over or across which are extended a series of radial or parallel bars, O. To permit the rubber, which by means of its shaft K L is secured to and takes bearing in the main lid or cover C of the machine, to maintain a vertical position when entering the box, and also when in operation, I construct the shaft with a joint, N. On the upper end of the shaft K L is the gear G, which is operated by means of the segmental geared lever F, which also has its bearing in the cover C. Across the bottom of the box is a series of parallel bars or corrugations, R, between which and the rubber the clothes are pressed and pounded or rubbed. The eccentric-lever E is designed to

stop or support the cover C (and hence the rubber or presser) at any desired altitude. The apron H is hinged in such a manner that it can be turned up in the position shown in Figs. 3 and 4. The corrugated bottom R and partition P are so constructed as to be removed at pleasure.

To operate my machine I secure a wringer, B B, to the support c, spread the clothes to be washed upon the corrugated bottom R, close the cover C, as in Fig. 1, and turn the eccentric-lever E until the weight of the cover and rubber presses upon the clothes with the desired force, when the clothes may be rubbed by operating the lever F horizontally. To press or pound them I operate the lever vertically, having first turned the eccentric so as to allow the rubber to press with the full force of its own weight and that of the cover on the clothes.

The washing is facilitated by combining these two operations. When the clothes are sufficiently washed I simply turn back the cover C, and they may be immediately run through the wringer and over the apron H into the basket or tub S, so avoiding by a simple construction the necessity of not only removing the cover, but the sometimes difficult and tedious operation of removing the operating mechanism before the clothes can be reached.

If I desire to suds the clothes I turn up the apron H to the position shown in Figs. 3 and 4, remove the partition P and corrugated bottom R, and run them (the clothes) repeatedly back and forth and through the wringer, the apron T returning them to their first position. Bedding, towels, &c., may be washed in this manner.

The nature of my invention consists, first, in so constructing a washing-machine that the operating part can be used either to press and pound or to rub the clothes, and is likewise placed in working position in the box of the machine or removed therefrom by simply opening or closing the lid thereof; second, in so constructing a washing-machine with wringer attached that the machine and wringer may be used, either jointly or separately, to wring, to suds, and to wash the clothes.

What I claim, and for which I desire Letters Patent of the United States, is—

The combination of the corrugated bottom R and rotary rubber or presser M, when the latter is constructed with the radial or parallel bars O and joint N and operated by the vibrating segmental geared lever F, substantially as and for the purpose set forth.

In witness whereof I have hereunto set my hand.

GEORGE G. CAMPBELL.

Witnesses:

SYLVANUS D. LOCKE,
WILLARD MERRILL.