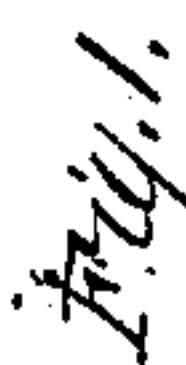


N<sup>o</sup> 70,630,

*Patented Nov. 5, 1867.*



Witnesses:  
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J. A. Fraser

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# United States Patent Office.

G. C. SELFRIDGE, OF SARATOGA SPRINGS, NEW YORK.

*Letters Patent No. 70,630, dated November 5, 1867.*

## IMPROVED WASHING MACHINE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, G. C. SELFRIDGE, of Saratoga Springs, in the county of Saratoga, and State of New York, have invented a new and improved Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

Figure 1 represents a longitudinal sectional elevation of my improved washing machine.

Figure 2 is a transverse sectional elevation of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to certain improvements on the washing machine for which Letters Patent were granted to John M. Oakley, September 17, 1861, and consists in converting the machine, the parts of which are of similar construction as those of the machine described in the aforesaid Letters Patent, into a double-acting washing machine by corrugating the whole bottom and both ends of the suds-box on the inside, and by roughening the faces of the plungers at both ends; thereby the plungers will operate at both ends of the washing machine, and twice as much work can be done as by the single washing machine.

The invention also consists in so fastening the connecting-rods to the pendulous arms carrying the plungers that they can be easily disengaged from the said arms, to allow the opening of the hinged cover at that end of the suds-box, above which the connecting-rods are arranged.

The invention consists also in making the corrugated bottom and ends of the suds-box removable from the same, and in forming it of two separate pieces, so that each piece can be taken out through the hinged cover at that end of the suds-box, near which it is arranged. This allows the box as well as the board to be easily cleaned.

A represents a suds-box, made of wood or other suitable material, of rectangular form, as shown. It is supported by suitable posts or standards B B, and is covered by a board, C, in which two hinged covers, D D', are formed, one near each end of the box. E is a semi-elliptic corrugated wash-board, arranged within the suds-box, so as to cover the ends and bottom of the same, as shown in fig. 1. It is made of two halves, *a* and *a'*, each of which fits loose in the box. The two pieces are in contact with each other at or near the centre of the box. When the covers D and D' are opened, the boards *a* and *a'* can be taken out, each one through the opening under which it is arranged. The box, as well as the wash-board, can thus be easily cleaned. F F are two standards, projecting from the sides of the suds-box at or near the centre of the same. In their upper ends are the bearings for an oscillating shaft G, to which two or more pendulous arms H H are firmly secured. The arms H fit through slots in the cover C of the box, and to their lower ends are secured plungers I I, as shown in fig. 1. Each plunger has both ends roughened or step-shaped, as shown, so that when the pendulous arms are set in motion, each plunger will once move towards one end and then towards the other end of the machine, operating in connection with the wash-board E, upon the clothes placed in each end of the suds-box. J is a horizontal crank-shaft, having its bearings in studs projecting from the sides of the box A, near one end of the same. To the cranks formed on this shaft are secured connecting-rods K K, which are hook-shaped or notched at or near their outer ends, so that they can be easily fitted upon or taken off pins *b b*, which project from the arms H, as shown.

By turning the shaft J by means of a belt, crank, treadle, or otherwise, the arms H will be set in motion, and the plungers will be moved back and forth in the suds-box. As the rods K K are arranged above the cover D, so that the latter cannot be opened as long as the shaft and pendulous arms are connected, it is necessary that the rods K can be released from the pendulous bars H, as indicated by red lines in fig. 1. For this purpose the ends of the rods K are hook-shaped or notched.

I claim as new, and desire to secure by Letters Patent—

The combination of the slotted cover C, hinged lids D D', sectional wash-board E, double oscillating-plungers I, arms H, rock-shaft G, removable connecting-rods K, working above the lid of the suds-box, pins *b*, crank-shaft J, as herein described for the purpose specified.

G. C. SELFRIDGE.

Witnesses:

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