

(No Model.)

J. G. LEE.  
WASHING MACHINE.

No. 302,572.

Patented July 29, 1884.

Fig. 1.

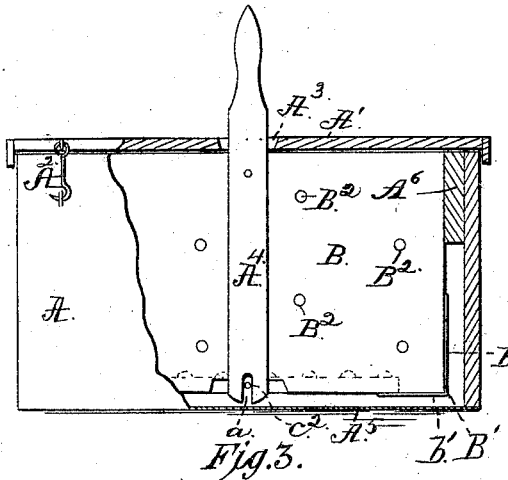


Fig. 2.

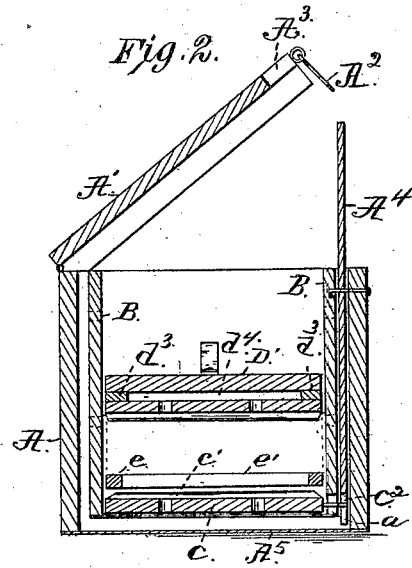


Fig. 3.

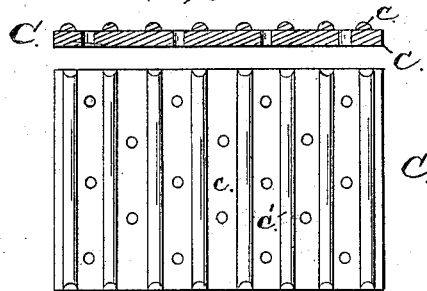


Fig. 4.

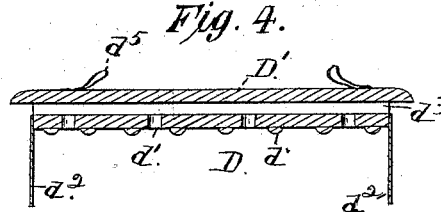


Fig. 5.

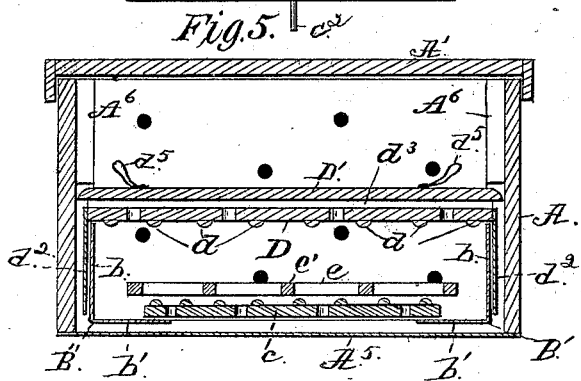
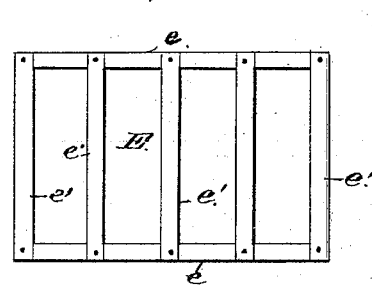


Fig. 6.



Witnesses

Samuel R. Turner  
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Inventor  
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his Atty.

# UNITED STATES PATENT OFFICE.

JOSEPH GREEN LEE, OF LONGVIEW, TEXAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 302,572, dated July 29, 1884.

Application filed September 12, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH GREEN LEE, of Longview, county of Gregg, and State of Texas, 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 invention, which will enable others skilled in the art to which it appertains to make and use it, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to improvements in washing-machines; and it consists in the construction, combination, and arrangement of the several parts hereinafter described and claimed.

In the drawings, Figure 1 is a side view of my machine, the side of the outer casing being broken away. Fig. 2 is a transverse vertical section of same. Fig. 3 shows the lower, and Fig. 4 the upper, rubber in detail. Fig. 5 is a vertical longitudinal section of the machine, and Fig. 6 is a plan view of the intermediate frame.

The outer casing, A, is provided with a lid, A', hinged to the rear side, and provided with a locking-hook, A<sup>2</sup>, on its forward edge. On this forward edge, midway the end of the machine, I form a slot, A<sup>3</sup>, through which the upper end of the lever A<sup>4</sup> projects. This lever is pivoted on the inner side of the front of casing A, and its lower end is provided with notch a for the purpose hereinafter described. The bottom A<sup>5</sup> of the outer casing is made of tin, sheet-iron, or other suitable metal, to permit the machine to be set on a furnace while in operation. Short blocks A<sup>6</sup> are secured in the upper interior corners of the main casing, and serve as supports for the vertical inner boards, B B, and hold the said boards slightly away from the sides of the inner casing. These inner boards extend down close to the bottom A<sup>5</sup>, and are connected at their lower ends by the L-shaped plates B', the upper wing, b, of which begins about midway the height of the inner plates and extends to the lower ends of the same, while the wing b' is bent for a short distance under the said plates, as shown. The inner boards, B, are perforated by a number of openings, B<sup>2</sup>, which permit the free circulation of steam.

The lower rubber or wash-board, C, is composed of the back board, c, and a series of strips or slats, c', formed or secured on the upper side of said board. The back board, c, is perforated to permit the water and steam to pass freely through it, and the rubber is placed on the wings b' of plate B', as most clearly shown in Fig. 5. A pin, c<sup>2</sup>, is extended forward from the center of the front of rubber C into slot a of lever A<sup>4</sup>.

The upper wash-board, D, is provided with slots or ribs d on its under side, and is perforated by openings d', as shown. This rubber is made of a length to extend onto and slightly over the upper edge of the plate B', and is provided with depending plates d<sup>2</sup>, which extend down behind the wing b of said plate, as shown. The upper wash-board is provided with a head-plate, D', mounted on and separated from the rubber by means of side strips, d<sup>3</sup>, so as to provide a steam space, d<sup>4</sup>, between the rubber and its head-plate, as shown. This head-plate is provided with straps or handles d<sup>5</sup>, so the rubber may be readily placed in or removed from the machine.

A frame, E, composed of side and cross bars, e e', is provided for the purpose of interposing it between the layers of clothing in the operation of the machine. It is made slightly longer than the lower rubber, so that as the said rubber is reciprocated it will reciprocate the interposed frame; but the latter will be stopped in its motion before the rubber, and a friction of the two parts will be had on the interposed layer of clothes.

In operation, a layer of clothing is placed down on the lower rubber. The interposed frame E is placed on top of said layer. Another layer is then placed on the frame, and the upper rubber or wash-board is placed thereon in the position shown in Figs. 2 and 3. Water is now introduced and the machine is set on a furnace. This heats the water and produces steam. The lever A<sup>4</sup> is worked, and by means of pin c<sup>2</sup> motion is communicated to the lower rubber, which is rapidly moved from end to end of the casing, carrying the clothing and framing E, and a thorough rubbing of the clothing is had, which, together with the circulation of steam, which is facilitated by the before-described perforations and ar-

rangements, accomplishes a thorough cleansing of the articles being washed.

It will be understood that good results would be had were the machine operated independent of the furnace; but I prefer to use it as  
5 above described.

It is obvious that my framing and devices employed might be varied without departing from the principles of my invention.

10 What I claim as my invention, and desire to secure by Letters Patent, is—

In a washing-machine, the combination of the suds-box with an open-bottomed perforated inner casing, B, smaller in dimensions than

the suds-box, and having supports to raise it 15 above the bottom of the suds-box, and a perforated rubber, *c*, the upper wash-board or rubber, D, provided with flanges *d*<sup>2</sup>, fitting over the inner casing, the intermediate frame, *e e'*, and operating-lever A<sup>4</sup>, all constructed and 20 arranged to operate as specified, for the purpose set forth.

In testimony that I claim the foregoing I append my signature.

JOSEPH GREEN LEE.

Witnesses:

T. E. KENNARD,

T. J. CLARK.