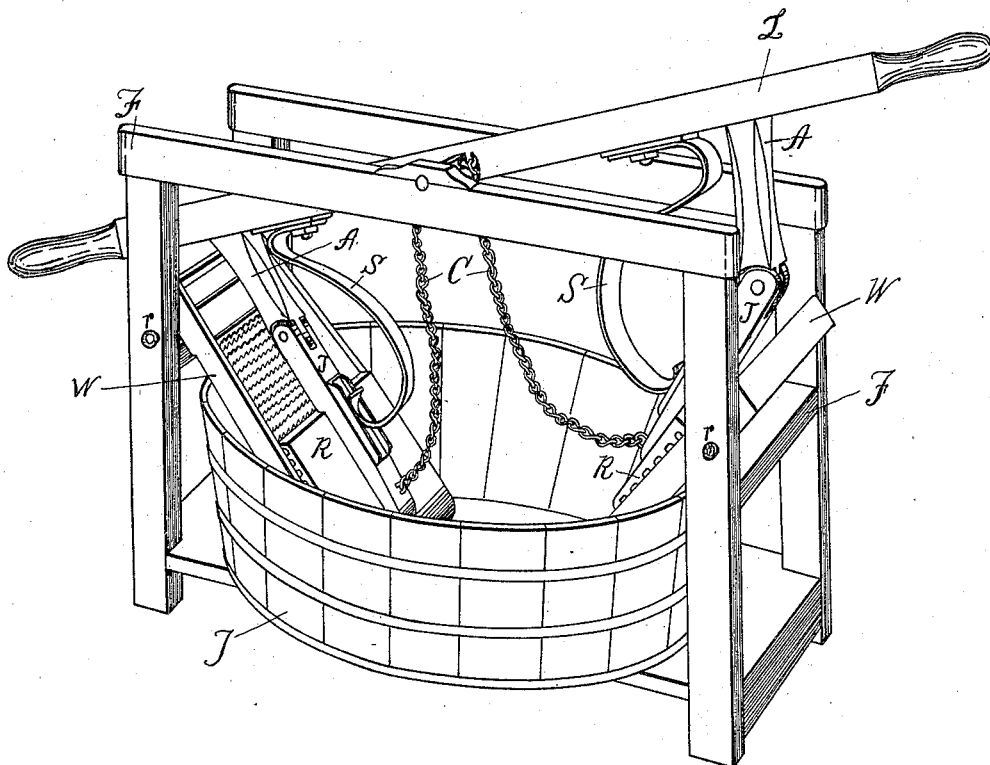


(No Model.)

S. GRAY.
WASHING MACHINE.

No. 301,357.

Patented July 1, 1884.



WITNESSES.

E. E. Sickles
G. Hoehler

INVENTOR.

Samuel Gray
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att'y.

UNITED STATES PATENT OFFICE.

SAMUEL GRAY, OF HAUGHVILLE, ASSIGNOR OF ONE-HALF TO HENRY DAVIS, OF WAYNE TOWNSHIP, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 301,357, dated July 1, 1884.

Application filed August 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL GRAY, a resident of Haughville, Marion county, Indiana, have made certain new and useful Improvements in Washing-Machines, a description of which is set forth in the following specification, reference being made to the accompanying drawing.

My invention relates to that class of machines wherein rubbing-blocks are moved up and down over the face of washing-boards by means of levers, and will be understood from the following explanation.

The drawing represents a perspective view of my device, in which F is a frame-work providing bearers for the axis of the lever L, which has two downwardly-projecting arms, A, to which are jointed arms J, the latter connected with rubbing-blocks R.

T is a tub, in which, on each side, are placed wash-boards W, secured firmly in place by rods r, passing through the legs of the frame and the wash-boards.

S are pressure-springs bolted at the top under the lever L, and secured so that the lower ends of the springs, which are free and rest in grooves formed in the back of the arms J, will press the rubbers R firmly against the rubbing-surfaces of the wash-boards.

C are cords or chains attached to the backs of the rubbers R, and at the top to the frame, by which the rubbers may be raised up when it is desired to put in the clothes to be rubbed,

the spring S being first lifted out of the groove in the back of the rubbers and placed to one side, thus relieving the rubbers from its pressure. The clothes being placed between the rubbers and the wash-boards, the spring S is replaced, and by alternately raising and depressing the handles of the lever L the clothes are thoroughly and easily rubbed clean in a few minutes.

One or two wash-boards and rubbers may be used, as desired.

To prevent the spring wearing away the wood it is best to put an iron plate in the groove, and allow the spring to press upon that instead of the bare wood.

What I claim, and desire to secure by Letters Patent, is the following:

In a washing-machine, the frame-work F, the tub T, the wash-boards W W, secured to the frame-work at their upper ends, their lower ends resting in the tub, the lever L, provided with arms A, the rubbing-blocks R, secured to arms J, the latter hinged to arms A, and the pressure-springs S, secured to lever L and resting against the upper side of arm J, all combined substantially as described.

In witness whereof I have hereto set my hand this 22d day of August, 1883.

SAMUEL GRAY.

Witnesses:

C. P. JACOBS,
E. E. SICKLER.