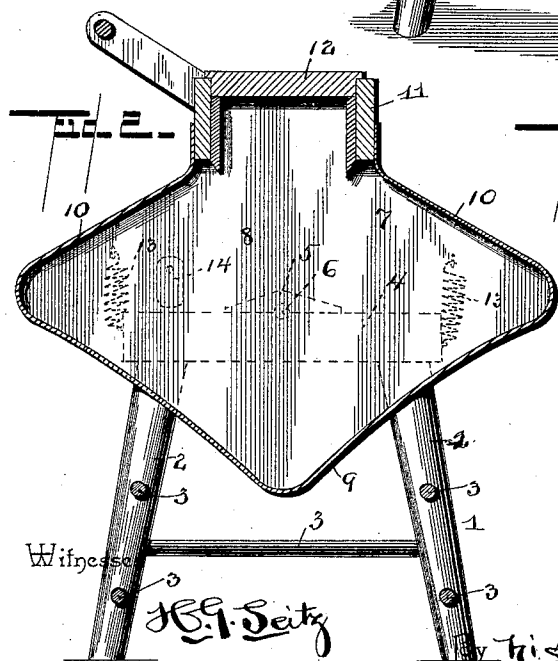
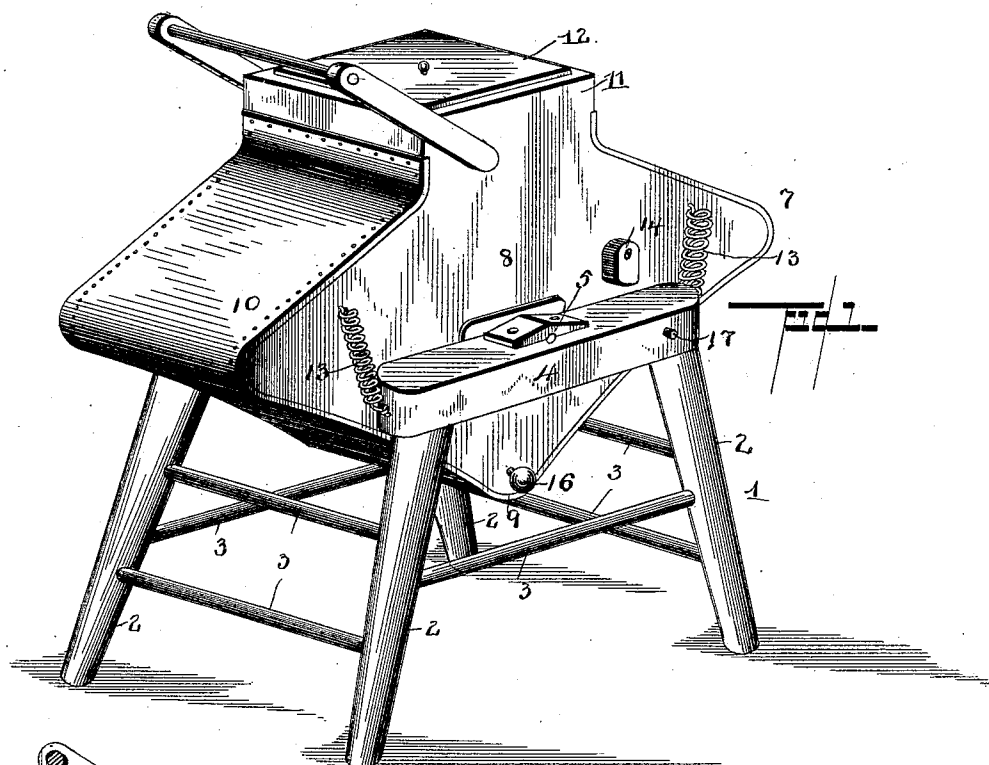


(No Model.)

D. GARDNER.  
WASHING MACHINE.

No. 484,892.

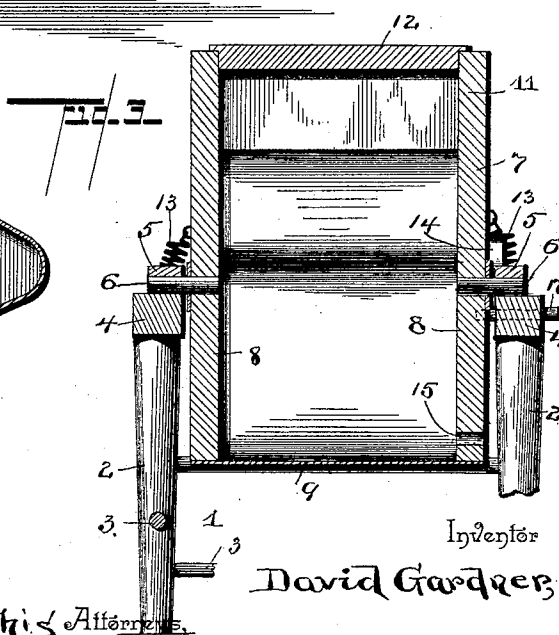
Patented Oct. 25, 1892.



Witness

H. G. Seitz

*H. J. Riley*



Inventor

David Gardner,

By his Attorneys,

CA Snow & Co.

# UNITED STATES PATENT OFFICE.

DAVID GARDNER, OF WHITE WRIGHT, TEXAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 484,892, dated October 25, 1892.

Application filed October 16, 1891. Serial No. 408,910. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID GARDNER, a citizen of the United States, residing at White Wright, in the county of Grayson and State of Texas, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

10 The object of the present invention is to simplify and improve the construction of washing-machines and to enable clothes to be thoroughly washed without liability of injuring them.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings, Figure 1 is a perspective view of a washing-machine constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view.

25 Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a frame composed of four legs 2, connected by rounds 3, and horizontal parallel bars 4, secured to the upper ends of the legs or supports 2 and provided intermediate their ends with bearings 5, in which are journals 6 of a washing-machine body 7. The washing-machine body 7 is approximately the shape of a rhombus in longitudinal section and has rounded corners and consists of sides 8 and a bottom 9 and ends 10, constructed of a single piece of sheet metal secured to the edges of the sides. The upper end of the body is provided with a rectangular mouth or opening 11, which during the operation of washing is closed by a cover 12, and arranged at one side of the mouth or opening is a handle by which the body is oscillated. The ends of the body are connected with the ends of the horizontal parallel bars 4 by the spiral springs 13, which are alternately expanded and compressed by the oscillation of the body, and arranged on opposite sides of the body, at the end thereof, are rubber stops 14, which are arranged at the ends of the body. The rubber stops are secured to the outer faces of the sides 8 by screws and are arranged to engage the horizontal bars 1 at the end of each oscillation

to stop the body suddenly and to increase the agitation of the water within the body, and thereby force the said water through the clothes to be washed. These elastic stops may be arranged to limit the stroke of the machine to prevent inexperienced operators from swinging the body too far, and thereby straining the spring. During the operation of the machine water rushes from the end to the center of the body and is forced through the clothes, and by suddenly stopping the body at the end of each swing a greater velocity and agitation is imparted to the water and clothes are prevented bunching at any one portion of the body. The springs insure evenness of stroke or swing of the body. The body is provided at its lower end or corner with an opening 15, through which water is drawn after the operation of washing has been completed and which is normally closed by a plug 16. One of the horizontal bars 4 is provided with a perforation, in which is arranged a pin 17, which passes through the bar and engages the body to prevent oscillation of the same when desired.

It will be seen that the washing-machine is exceedingly simple; that its interior presents a smooth and unbroken surface, which will in no wise injure the clothes to be washed, and that water is rapidly washed through the clothes, which are prevented bunching in any one part of the machine.

What I claim is—

In a washing-machine, the combination of a frame comprising the legs 2, the rounds connecting the legs, and the parallel horizontal side bars connecting the upper ends of the legs at each side of the frame, the ends of the frame being open at the top, a diamond-shaped washing-machine body journaled between the sides of the frame, the spiral springs arranged at each end of the horizontal bars and attached to the same and to the body, and the elastic stops arranged at each end of the body and on opposite sides of the same and adapted to engage the side bars, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DAVID GARDNER.

Witnesses:

R. A. BINFORD,  
J. B. MARSHALL.