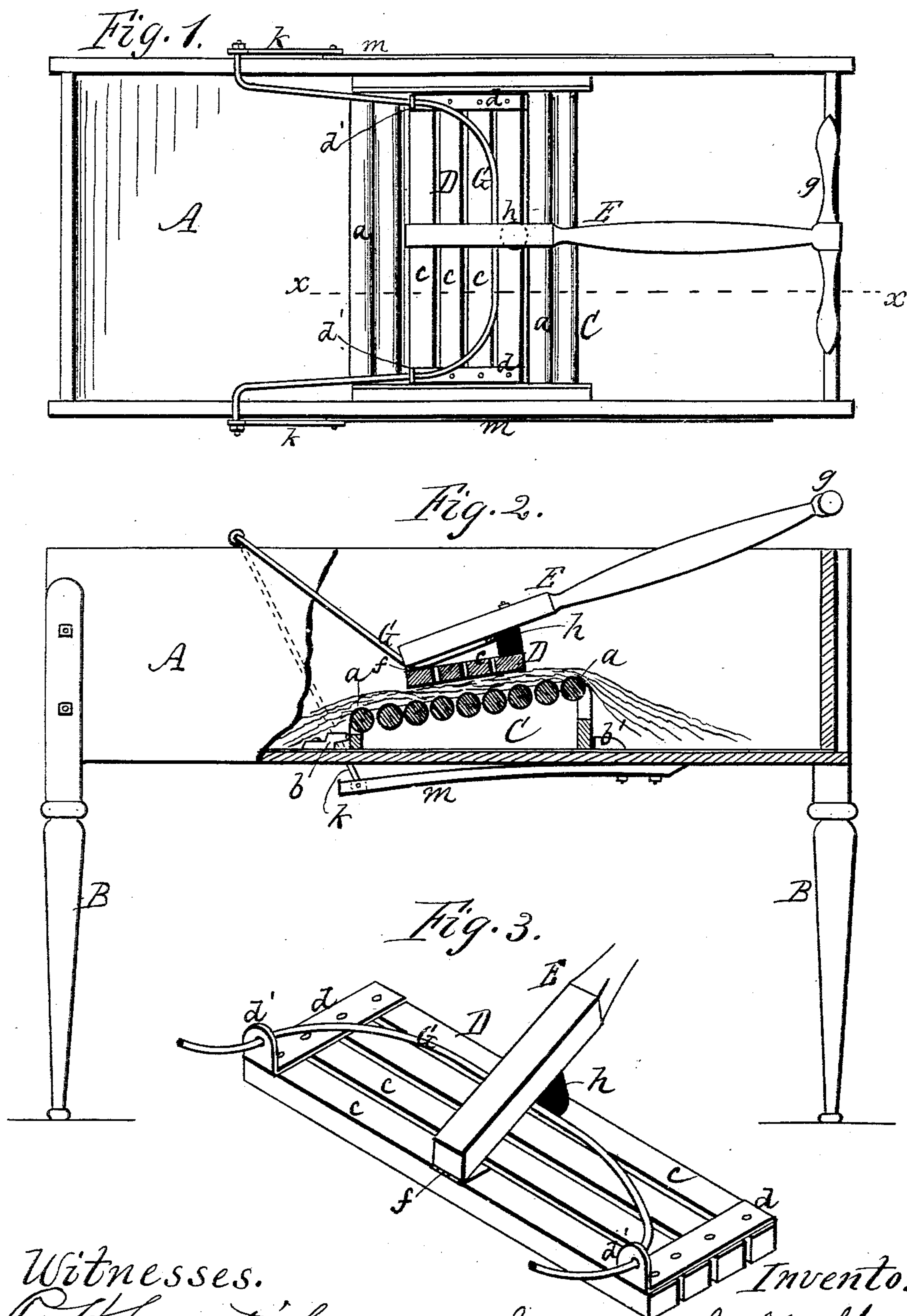


(No Model.)

E. L. WALLACE.  
WASHING MACHINE.

No. 504,763.

Patented Sept. 12, 1893.



Witnesses.  
P. H. Cochrane  
H. G. Osborne

Inventor:  
Edward L. Wallace,  
per R. F. Osgood,  
Atty

# UNITED STATES PATENT OFFICE.

EDWARD L. WALLACE, OF ROCHESTER, NEW YORK.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 504,763, dated September 12, 1893.

Application filed June 26, 1893. Serial No. 478,825. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD L. WALLACE, of Rochester, in the county of Monroe and State of New York, have invented a certain  
5 new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this specification.

10 My improvement relates to washing machines consisting of a rubber which reciprocates forward and back over a roller bed, and the invention consists in the construction and arrangement of the rubber as hereinafter described and claimed.

15 In the drawings—Figure 1 is a plan view of the machine. Fig. 2 is a longitudinal, vertical section in line *x x* of Fig. 1, one end of the machine being shown in elevation. Fig. 20 3 is a perspective view of the rubber.

A indicates the body of the machine, consisting of a box of rectangular form and supported by suitable legs B B.

25 C is the roller-bed and D the rubber. The bed is of ordinary form, consisting of an angular frame extending across the machine and provided at the top with a set of cross rollers *a a a*, which form the support for the clothes. This frame is fitted removably in place, being held at the front by hook-shaped lugs *b*  
30 *b*, and at the rear by square lugs *b' b'*. It can therefore be detached at any time for cleaning or repairs.

35 The rubber is of peculiar construction. It consists of cross slats *c c*, with openings between to admit free passage of water. At the ends are tie straps *d d*, provided at one extremity with upturned lugs *d' d'*. The handle E is hinged to the front of the rubber as  
40 shown at *f*, and has at its rear end a cross head *g* by which it is operated. At the rear of the rubber a spring *h* is interposed between the cross slat and the handle, the same being held by a bolt. Preferably the spring is made  
45 of a block of india rubber, but may be of any other kind.

G is a bow made of iron rod attached centrally to the handle on the under side, its extremities diverging and passing out through  
50 holes in the lugs *d' d'*, thence extending upward in an inclined direction, passing over the sides of the machine and there jointed to links *k k*, which in turn extend downward outside the machine and are jointed to stiff  
55 springs *m m* on the underside of the machine. This connection gives freedom of action to the rubber. It will be seen that three joints are made, one at the center and one at each end, the latter being produced by the passage  
60 of the iron rod through the lugs *d' d'*. These joints are all in line and allow the rubber to spring up and down at the rear. At this point the spring *h* gives the necessary elasticity and supports the handle.

By the means above described the rubber  
65 has freedom of action and adapts itself to the surface over which it works, and a better result is produced than where the rubber is stiff. The bow also acts as a stiffener and support to the rubber.

70 Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The rubber constructed of cross slats, the tie straps at its ends provided with upturned  
75 lugs, the handle hinged to the front edge of the rubber, the spring between the rubber and the handle, the bow attached to the handle and passing through the lugs of the tie straps, and suitable connections for holding  
80 and operating the rubber, as herein shown and described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

EDWARD L. WALLACE.

Witnesses:

R. F. OSGOOD,  
P. H. COSTICH.