

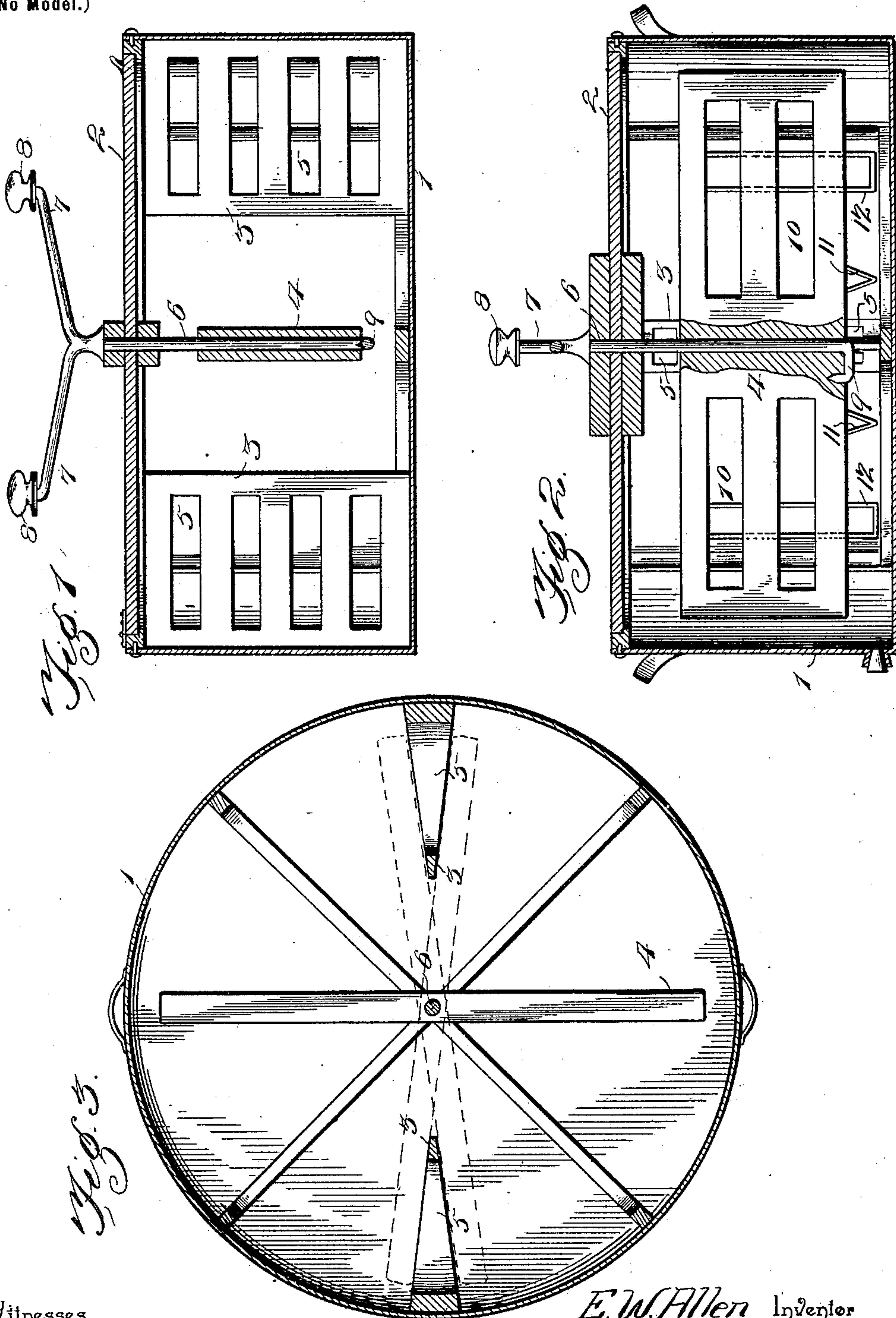
No. 675,031.

Patented May 28, 1901.

E. W. ALLEN.  
WASHING MACHINE.

(Application filed Feb. 14, 1901.)

(No Model.)



Witnesses  
Olive M. Simpson  
J. H. Riley

E. W. Allen Inventor  
By C. A. Snow & Co.  
Attorneys



# UNITED STATES PATENT OFFICE.

ERASMUS W. ALLEN, OF HIAWATHA, KANSAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 675,031, dated May 28, 1901.

Application filed February 14, 1901. Serial No. 47,809. (No model.)

*To all whom it may concern:*

Be it known that I, ERASMUS W. ALLEN, a citizen of the United States, residing at Hiawatha, in the county of Brown and State of Kansas, 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 improve the construction of washing-machines and to provide a simple, inexpensive, and efficient one capable of being operated with a minimum amount of labor and adapted to wash clothes rapidly and thoroughly without 15 injuring the fabrics.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated 20 in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a vertical sectional view of a washing-machine constructed in accordance with this invention. Fig. 2 is 25 a similar view taken at right angles to Fig. 1. Fig. 3 is a horizontal sectional view.

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

30 1 designates a washing-machine body constructed of suitable material and provided with a cover 2, and the said body, which may be either cylindrical or any other desired shape, is preferably provided with a sheet-metal bottom and with sheet-metal sides. 35 The sheet-metal body may be braced in any suitable manner, and it may be arranged on a stand or be provided with legs.

40 Within the body of the washing-machine is arranged a pair of diametrically oppositely disposed stationary pressers or pounders 3, which cooperate with a reversely-oscillating presser or pounder 4, which is adapted to be rotated one-half a revolution to squeeze the 45 clothes or other fabrics being washed between it and the stationary pressers or pounders, and it is then rotated one-half a revolution in the opposite direction to squeeze the clothes lying at the opposite faces of the said stationary pressers or pounders. The sta- 50 tionary pressers or pounders, which may be mounted in any suitable manner, are pref-

erably provided with openings 5 to permit the escape of water expelled from the clothes by the squeezing operation; but the stationary 55 pressers or pounders may be constructed in any other suitable manner.

The rotary presser or pounder 4, which is adapted to be alternately turned in opposite directions, is centrally suspended from the 60 top of the washing-machine body by means of a vertical shaft or stem 6, journaled in a suitable bearing-opening of the cover 2 and provided with oppositely-disposed arms 7, provided at their outer ends with suitable 65 grips or handles 8. The vertical stem or shaft is provided at its lower end with an approximately L-shaped supporting-arm 9, the outer portion of which is embedded in the lower edge of the movable presser or pounder. 70 The arms 7 at the upper end of the shaft or stem by extending in opposite directions enable the washing-machine to be operated from either side of it.

The movable presser or pounder is provided 75 with suitable openings 10, adapted to receive the wristbands of garments and other soiled portions to enable the same to be thoroughly operated on by the washing-machine, and in this manner fabrics may be connected with 80 the movable presser or pounder, whereby they will be carried through the water when the said movable pounder is reversely rotated. The movable pounder is adapted to be alter- 85 nately brought to the positions illustrated in dotted lines in Fig. 3 of the accompanying drawings, and the clothes or other fabrics within the washing-machine body will be squeezed to expel the water from them for removing dirt and stains, and after the squeez- 90 ing operation has been completed on a portion of the clothes or fabrics the latter are allowed to soak while the rest of the clothes or fabrics are being squeezed in the manner just described. 95

The lower edge of the movable presser or pounder is located above the bottom of the washing-machine body, and the said presser or pounder is provided with depending loops 11 and 12, constructed of wire or other suit- 100 able material and adapted to enable clothes to be connected with the movable presser or pounder; also, the depending loops are adapted to catch the clothes lying upon the bottom



of the body and carry them with the presser or pounder. The sides of the loops may be secured to the bottom of the presser or pounder, or they may be extended upward through the same to divide the openings 10 into separate spaces.

It will be seen that the washing-machine is exceedingly simple and inexpensive in construction, that it is easily operated, and that it is capable of rapidly and thoroughly washing clothes at the expenditure of a minimum amount of labor. It will also be seen that the clothes may be loosely placed within the washing-machine body at opposite sides of the movable presser or pounder and that excessively-soiled fabrics may be attached to and carried by the said movable presser or pounder to increase the effect.

Changes in the form, proportion, size, and the minor details of construction within the scope of the appended claim may be resorted to without departing from the spirit or sacrificing any of the advantages of this inven-

tion, such as varying the means for bracing and supporting the washing-machine body. 25

What I claim is—

A washing-machine comprising a body, the stationary vertically-disposed pressers located at opposite sides of the body and provided with an opening, the movable presser or pounder arranged to swing horizontally and provided with horizontal clothes-receiving openings, the loops depending from the lower edge of the movable pounder or presser and having sides intersecting the said openings of the movable pounder or presser, and a vertical shaft carrying the movable presser or pounder and provided with means for operating it, substantially as described. 35

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses. 40

ERASMUS W. ALLEN.

Witnesses:

J. W. HOWIE,

J. F. MEISENHIMER.