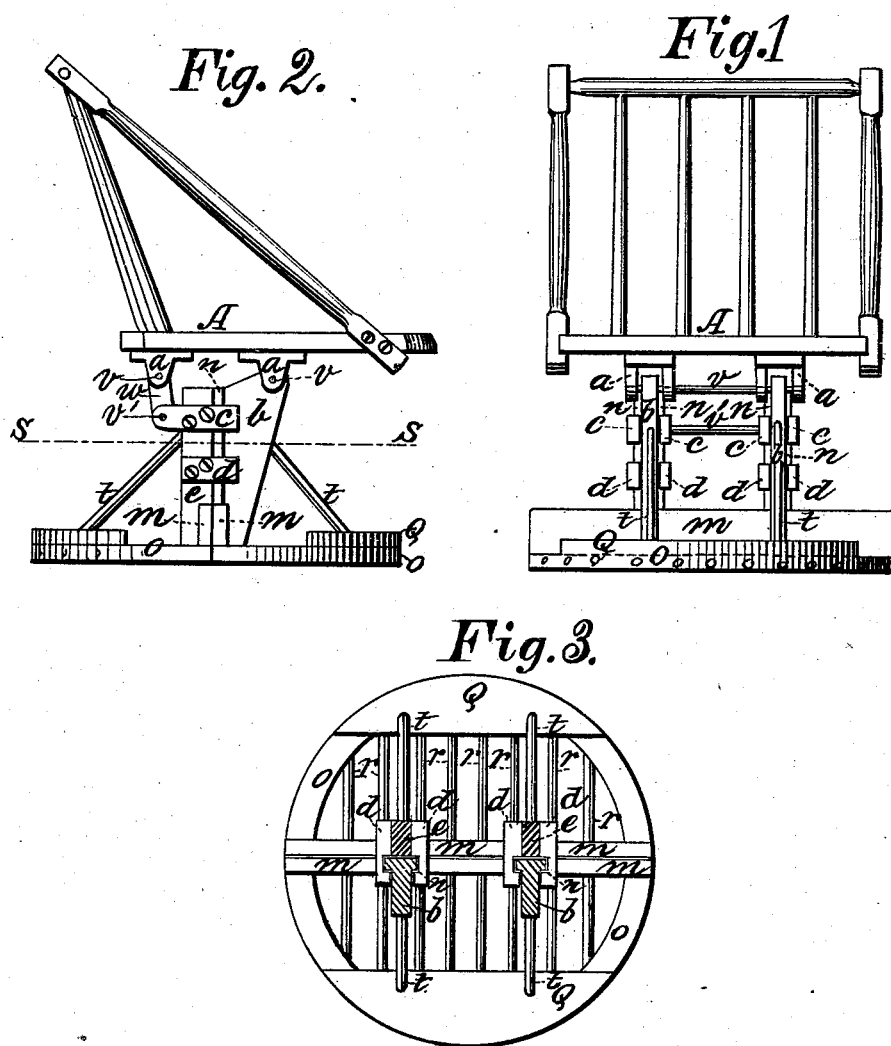


(Model.)

D. DAVIS.  
WASHING MACHINE.

No. 261,538.

Patented July 25, 1882.



Witnesses;—  
Henry Rice  
Henry Bidler

Inventor;—  
Dewitt Davis

# UNITED STATES PATENT OFFICE.

DEWITT DAVIS, OF CHICAGO, ILLINOIS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 261,538, dated July 25, 1882.

Application filed January 21, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, DEWITT DAVIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a front view of a washing-machine embodying my improvements. Fig. 2 is a side representation of the same, and Fig. 3 is a horizontal section in the plane of the line S S of Fig. 2.

Like letters of reference indicate like parts.

A represents the seat of a chair, which may be provided with a back and with arms, as shown.

*a a* are ears depending from the under side of the seat A, and rigidly attached thereto.

*o o* are semicircular rims, on which are splice-boards Q Q.

*m m* are cross-pieces connecting the ends of the semicircular rims *o o*.

*r r* are rounds or slats arranged at suitable distances apart and entering the cross-pieces or slats *m m* and the rims *o o*.

*b e* are uprights, rigidly attached at their lower ends to the cross-pieces *m m*, and jointed or hinged at their upper ends to the ears *a a*.

One pair of uprights—for example, the rear pair—may be indirectly jointed to the rear pair of ears by means of the links or connecting-pieces *w w*, the upper ends of which are jointed directly to the rear pair of ears, *a a*, and the lower ends of which are jointed to blocks located on the sides of the rear pair of uprights, *e e*.

*c* and *d* are guide-blocks, rigidly attached to the uprights *e e* and overlapping the outer sides of the uprights *b b*. These guide-blocks are grooved vertically near their forward ends to receive ribs projecting laterally from the rear edge of the uprights *b b*, as clearly indicated in Fig. 3.

*t t* are braces connecting the uprights and the parts Q Q.

The semicircular rims *o o*, when arranged together as shown, form or constitute, in connection with the rounds or slats *r r*, a two-part

open or skeleton plunger or beater, adapted to be arranged upon clothes placed in an ordinary wash-tub. I use by preference in connection with this washer a jet-board or perforated false bottom, arranged in the tub a little way above its fixed bottom. I deem it preferable to have the cross-pieces *m m* project some way up above the rims *o o*, for the purpose hereinafter referred to.

It will be perceived from the foregoing description that if the washer now described be placed in a tub containing clothes and water, and if a person seated on the chair-seat moves back and forth, as if in a rocking-chair, the plungers will be alternately raised and lowered. The result of this movement will be that the clothes will be pressed by the descending half of the plunger and released by the ascending half or part thereof. By this means the water will be caused to percolate back and forth through the clothes, and the operation is to be continued until they are thoroughly washed, but need be continued only for a comparatively short time, as the action of the water and suds is thus made quickly effective. The washer is such in construction that the rocking movement of the chair-seat will move the plungers vertically in the tub and all the parts are prevented from becoming displaced. By extending the cross-pieces *m m* above the rims *o o*, as shown, the clothes and water will be prevented from passing over upon one half of the plunger when the other half is raised, and the water consequently must pass through the plungers.

The washer is simple in its construction and operation, and may be briefly described as consisting of a two-part open or skeleton plunger, adapted to be arranged in an ordinary tub, and connected to a chair-seat in such a manner that the parts of the plunger will be raised and depressed alternately, or one after the other, by the rocking or tilting movement of the chair-seat.

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

1. A washing-machine consisting of the combination of a tilting chair-seat and a two-part

open or skeleton plunger having each part hinged to the said seat, substantially as and for the purpose specified.

- 5 2. The combination of the two-part open or skeleton plunger, each part provided with the vertically-extending cross-pieces *mm*, the tilting chair-seat *A*, the uprights *b* and *e*, hinged at their upper ends to the said seat and at

their lower ends rigidly fastened to the plunger, and guides operating in connection with the said uprights, substantially as and for the purpose specified.

DEWITT DAVIS.

Witnesses:

HENRY W. RICE,  
HENRY BEIDLER.