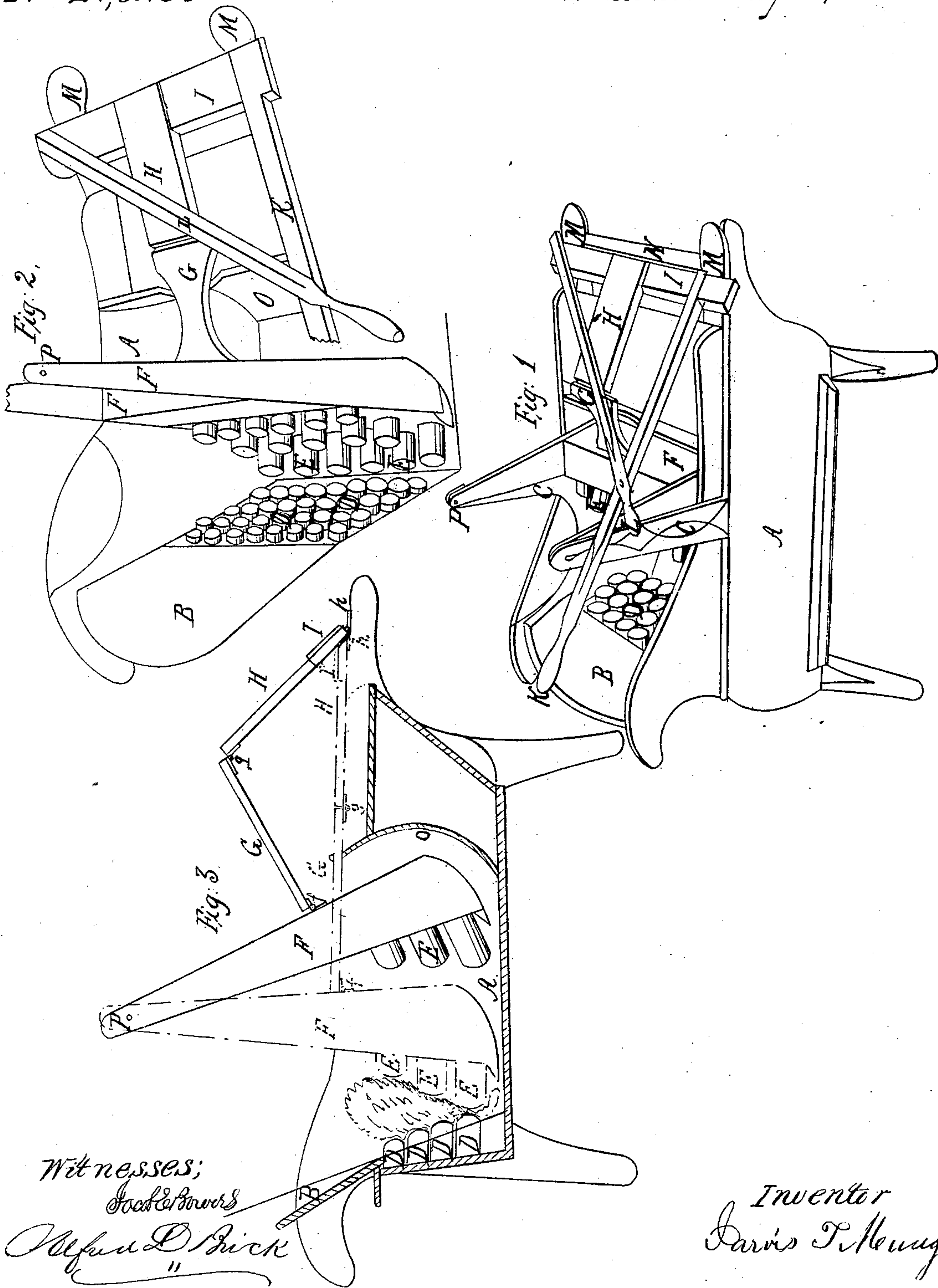


*J. T. Mudge,  
Washing Machine,*

*N<sup>o</sup> 24,948.*

*Patented Aug. 2, 1859.*



*Witnesses;  
Jacob Brown  
Alfred D. Dick*

*Inventor  
J. T. Mudge*

# UNITED STATES PATENT OFFICE.

JARVIS T. MUDGE, OF CLEVELAND, OHIO.

## WASHING-MACHINE.

Specification of Letters Patent No. 24,948, dated August 2, 1859.

*To all whom it may concern:*

Be it known that I, J. T. MUDGE, of Cleveland, in the county of Cuyahoga and the State of Ohio, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the machine, showing the position of the lever-arms K and L and the hinged connecting board G, H, and plunger F, pivoted at P, in their relative position. Fig. 2 shows the knobs and lever from above; Fig. 3, a view illustrating the operation of the swinging plunger.

The tub A, is made of any desirable form and size, the end B, being inclined at an angle, say  $20^{\circ}$  from the bottom outward, provided with four or more series of smooth, cylindrical knobs, D, of hard wood, with rounded ends, projecting, gradually lengthening downward. Three or more series of like knobs E, are on the plunger F, facing the knobs D. This plunger is rounded behind and has a weighted box between arms working between two uprights C, on the sides of the tub A, pivoted at P, to the back of which is affixed the jointed connecting board G, H, which is operated by the levers K, L, on the cross foot board I with which they are hinged to the ends M, of the tub A. Thus by raising the handles K, L, the hinged connecting board G, H, is drawn up and the swinging plunger F, drawn back as shown by Fig. 3.

By putting alkaline water or soap suds into the tub A, and the clothing to be washed between the knobs (E, E, Fig. 2,) in the tub, by elevating and depressing the handle to the lever-arms K, L, the swinging plunger is drawn back and pressed forward with the greatest ease by this compound leverage, less fatiguing than any other kind of motion. The forward motion of the plunger raises and presses the clothing against the fixed knobs on the tub, forcing the water through them, which escapes through or between the interstices of the knobs, and carries with it the impurities, operating like a forcing pump, and as the plunger is withdrawn the clothes roll down the inclined plane, and present a new surface to be operated upon in like manner, by each successive stroke of the plunger. It is obvious that while these rounded knobs and the pressure, however forcible, does not injure the texture of the finest fabrics, their action is such as to insure a thorough and speedy cleansing of the clothes or goods submitted to them.

I am aware that a swinging plunger operated by leverage is not new, and do not claim such, but

I do claim—

Arming the side of the tub and the plunger F, with round headed knobs or pins, to act on the clothes substantially as described, and allow the water to escape freely as it is pressed out of the clothes being washed.

JARVIS T. MUDGE.

Witnesses:

WM. I. SILL,  
DAVIS BEITTE.