

No. 709,016.

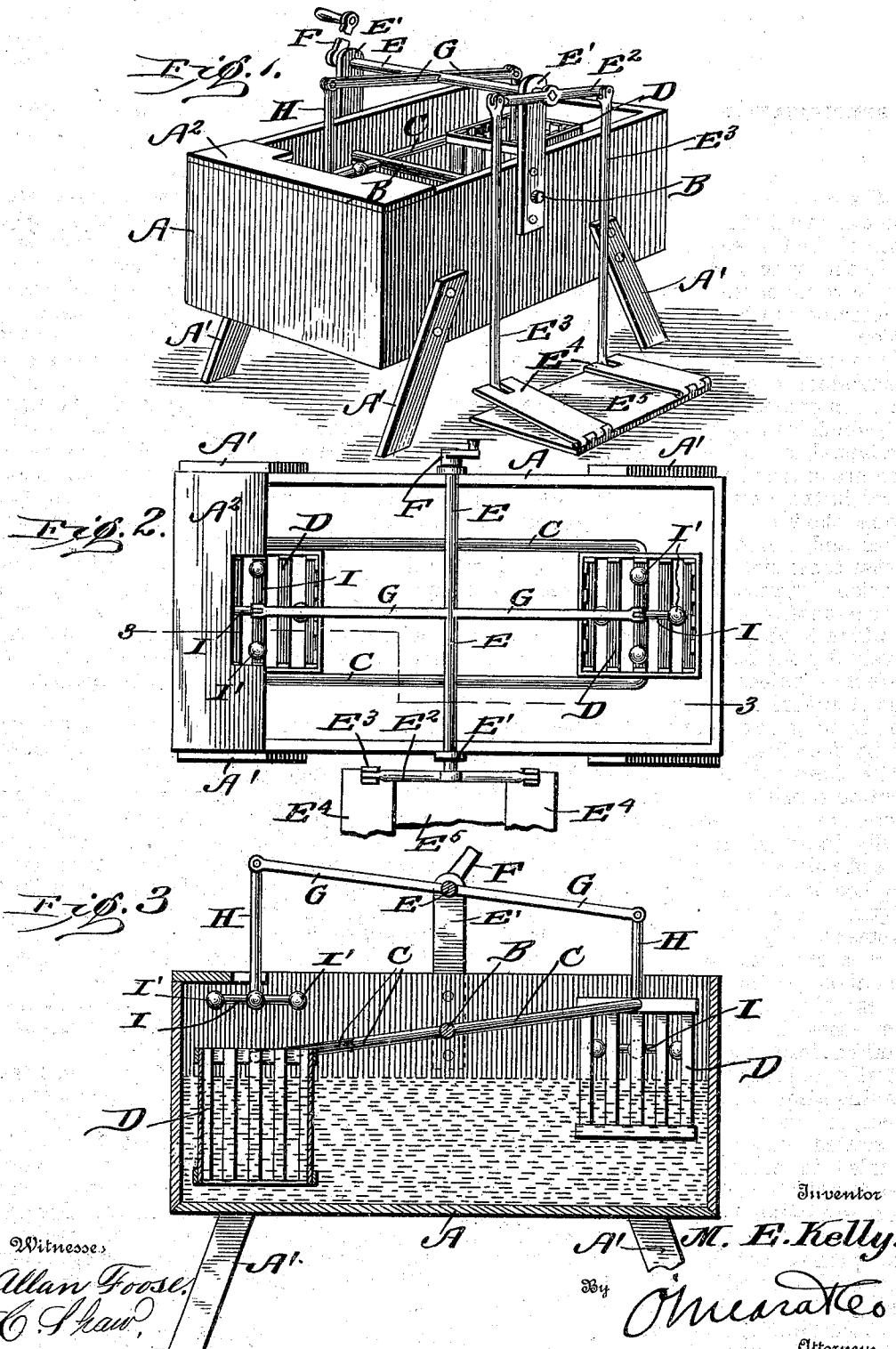
Patented Sept. 16, 1902.

M. E. KELLY.

## **WASHING MACHINE.**

(Application filed Dec. 7, 1901.)

(No Model.)



Witnesses.

Allan Foose.  
C. Shaw.

Inventor

M. E. Kelly  
Inventor

Attorneys

# UNITED STATES PATENT OFFICE.

MARY ELLEN KELLY, OF JACKSON, OHIO.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 709,016, dated September 16, 1902.

Application filed December 7, 1901. Serial No. 85,041. (No model.)

To all whom it may concern:

Be it known that I, MARY ELLEN KELLY, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Ohio, have invented a new and useful Washing-Machine, of which the following is a specification.

My invention is an improvement in washing-machines, and has for its object to provide an improved device having a tub or vessel in which is supported slatted buckets that are adapted for the reception of clothes and which are so arranged that they may be submerged in the water and then elevated, so as to cause the water to percolate through the clothes, and thereby cleansing them. In order that these slatted buckets may be easy of operation, I connect them to the opposite sides of a rock-shaft that is journaled in the tub and which is adapted to be rocked to alternatively dip the buckets in the water.

A further object of my invention is to arrange pounders or plungers to operate within the buckets and upon the clothes, as will be fully described hereinafter.

With these and other objects in view my invention consists in certain details of construction and novelties of combination, as will be fully described in the following specification and pointed out in the claims, reference being had to the drawings, in which—

Figure 1 is a perspective view of my improvement. Fig. 2 is a plan view thereof, and Fig. 3 is an irregular longitudinal section taken about on the line 3 3 of Fig. 2.

In carrying out my invention I employ a tub or vessel A, suitably mounted upon legs A' and having one end provided with a lid A<sup>2</sup>. Centrally journaled in the tub is a rock-shaft B, having arms C projecting from either side thereof, to whose outer ends are pivotally held slatted buckets D. A rock-shaft E is journaled in suitable brackets E' directly above the shaft B and has one end provided with a crank-handle F and its opposite end with an arm E<sup>2</sup>, to the ends of which are connected pitman-rods E<sup>3</sup>, whose opposite ends are secured to treadles E<sup>4</sup>, arranged upon a suitable bracket-plate E<sup>5</sup>. To the central portion of the shaft is connected oppositely-projecting arms G, whose outer ends have connected thereto rods H, carrying plunger-pounders I, which are preferably formed of short cylindrical arms, whose outer ends ter-

minate in spherical portions I'. These pounders are of such size to conveniently operate in the slatted buckets D, and in operation the articles to be washed are placed within the buckets after a suitable quantity of water has been placed in the tub and the treadle operated to rock the shaft E, which alternately forces the buckets to dip into the water, and at the same time the plungers operate or press the clothes, which forcibly causes the water to percolate therethrough and quickly and thoroughly cleanse them. It will thus be seen that this operation is very simple and requires but a short time for operation, and in practice I may make the bottom of the tub of metal, so that the water in the tub may be heated by placing a gas or oil stove thereunder. By arranging the crank-handle upon the opposite end of the shaft to which the treadles are connected the said shaft may be rocked by hand, and thus relieve the operator should she become tired of operating the treadles.

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

1. A washing-machine comprising a tub or receptacle a shaft journaled therein and having arms projecting from either side thereof, buckets pivotally connected to the outer end of said arms, brackets arranged upon the tub and having a shaft journaled therein, arms projecting laterally from the shaft and having rods connected to their outer ends, the lower ends thereof being provided with plungers working in the buckets and means for rocking the last-named shaft, substantially as and for the purpose described.

2. In a washing-machine, the combination of a tub or receptacle, a shaft journaled therein, arms projecting from the said shaft, buckets carried by the arms, brackets secured to the tub, a shaft journaled in the brackets, arms projecting from the last-named shaft, plungers connected to the arms and working in said buckets and means connected to the said last-named shaft for operating it and the said plungers, substantially as shown and described.

MARY ELLEN KELLY.

Witnesses:

T. E. DAVIS,  
CHAS. SMITH.