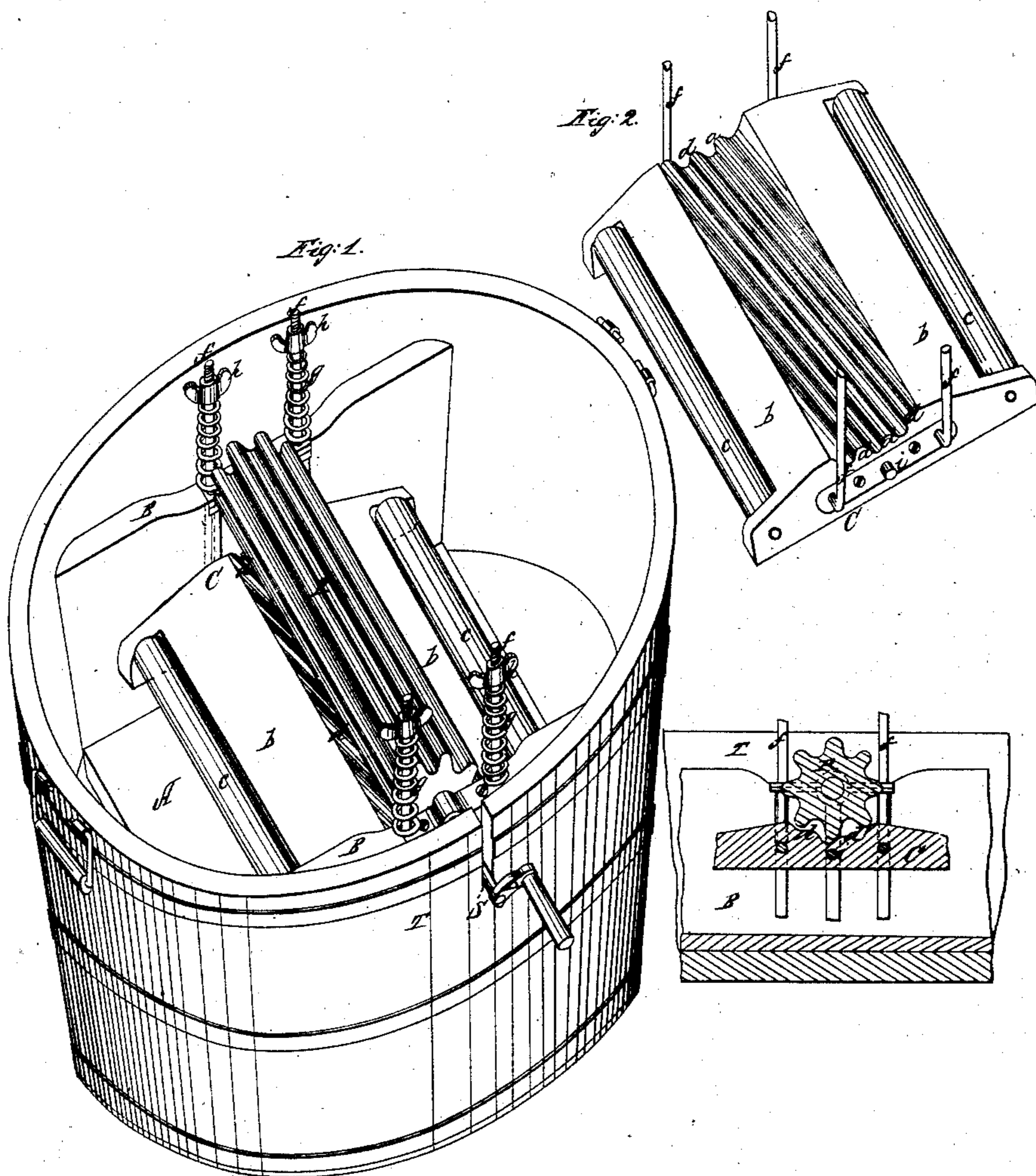


*J. F. Pond*

*Washing Machine,*

*N<sup>o</sup> 28,404.*

*Patented May 22, 1860.*



*Witnesses:*  
*Shedden*  
*Clay*  
*Ed. Patten*

*Inventor:*  
*Joseph F. Pond*

# UNITED STATES PATENT OFFICE.

JOSEPH F. POND, OF CLEVELAND, OHIO.

## WASHING-MACHINE.

Specification forming part of Letters Patent No. 28,404, dated May 22, 1860; Reissued August 13, 1861, No. 1,219.

*To all whom it may concern:*

Be it known that I, JOSEPH F. POND, of Cleveland, in the county of Cuyahoga and 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 same, reference being had to the annexed drawing, forming part of this specification, in the several figures of which similar characters of reference denote the same part.

Figure 1 is a perspective view of the machine. Fig. 2 is a perspective view of the bed. Fig. 3 is a detached section of roller bed.

This is a machine designed to be used with an ordinary tub; or may be placed in a box if desired.

The nature of the invention consists in combining with a fluted roller in fixed bearings, a spring bed, beneath said roller, grooved obliquely to the axis of the roller, so that the clothing will be subjected to a continued pressure while passing between the bed and roller, substantially as will be hereinafter set forth.

In the drawing R is the fluted roller, whose journals rest in fixed bearings of upright pieces B B, and is turned by a crank K upon the end of shaft S, which projects beyond the side of the tub T.

Below the roller R is the bed C, with a concave rubbing surface *a*, inclined plane surfaces *b b*, exterior thereto, and rollers *c c* on the outer edges thereof. The concave rubbing surface is fluted oblique to the axis of the concave, as shown in Fig. 2, so that the roller will at all times act upon at least two of the projecting ridges *d d* of the concave, and thus have a continuous action upon the clothes, instead of the intermittent

action between parallel flutes of roller and concave. The bed has rods *f* at each extremity passing up through slots in uprights B, and having springs *g* on their upper protruding extremities, regulated by nuts *h*, so as to draw the bed up toward the roller. Besides the rods *f*, the ends of the bed have each a pin *i* which moves in a slotted casting inserted in upright, and serves as a guide to the bed. The uprights B are attached to a face piece A, so that the whole washing mechanism can be placed within a common tub, as shown in the drawing. Should it be desired however to use a box, the sides of the box will take the place of the uprights B B.

In operation the required pressure is given by position of nuts *h*. The clothing is carried from side to side of the bed between the roller R and concave by the turning of crank K, producing a continuous rubbing during the passage of the garment, by reason of the oblique corrugation of the bed. The inclined surfaces *b b* and rollers *c c* aiding the movement of the clothes to and from the concave.

Having described my invention and the operation thereof, I claim—

The obliquely fluted spring bed C, substantially as described, in combination with the fluted roller R arranged and operating substantially as and for the purpose specified.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

JOSEPH F. POND.

Witnesses:

GEO. PATTEN,  
JAS. D. CLARY.