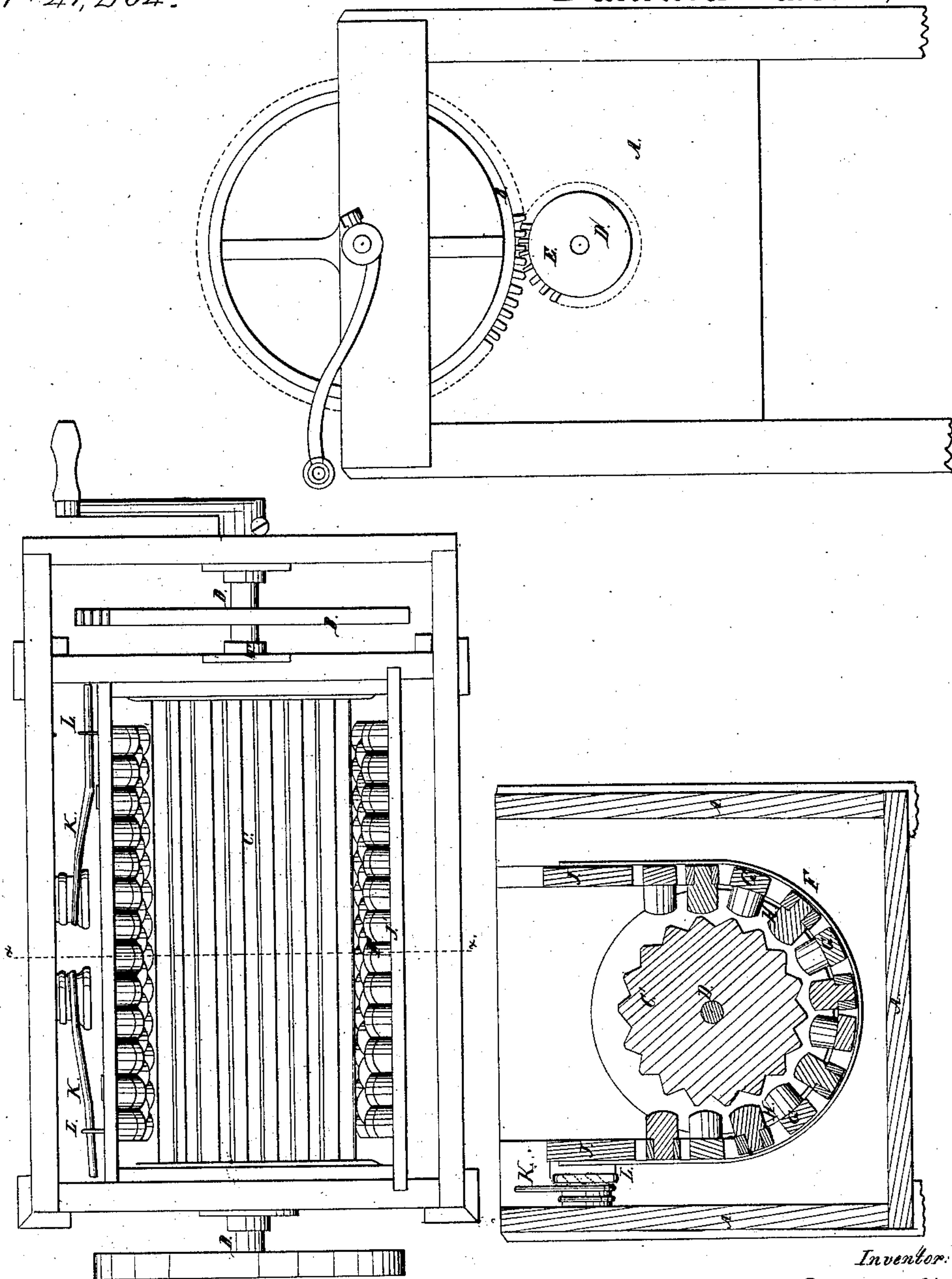


*D'Arcy Porter,*

*Washing Machine,*

*N<sup>o</sup> 41,264.*

*Patented Jan. 12, 1864.*



*Witnesses:*  
*W. H. Burdage*  
*P. A. Brink*

*Inventor:*  
*D'Arcy Porter*  
*J. H. Woodman*

# UNITED STATES PATENT OFFICE.

D'ARCY PORTER, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF AND J. H. WOODMAN.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 411,264, dated January 12, 1864.

*To all whom it may concern:*

Be it known that I, D'ARCY PORTER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a top view. Fig. 2 is an end view, and Fig. 3 is a transverse section in the direction of the lines *xx* in Fig. 1.

Like letters refer to like parts.

The body of this machine consists of a rectangular box, A, at one end of which is mounted the gear-wheel B. A fluted roller, C, runs longitudinally with the box A near its center, leaving a space of two or three inches between the roller and the bottom and sides of the box. The shaft D of the fluted cylinder extends through the end of the box to which the gear-wheel B is attached, and carries a pinion, E, which receives its motion from the driving-wheel B, and thus giving rotation to the cylinder C. A balance-wheel is placed upon the end of the shaft D opposite the pinion E, in order to give a steadiness to the motion of the roller C.

A flexible belt, constituting the rubbers, is shown at F. This is composed of a series of slats, G, about an inch in width and in length equal to the roller C. These slats are secured to two or more flexible bands, H, and parallel to the roller C, at a distance of about an inch apart, or less. Each slat is provided

with a series of knobs upon the inner surface, as shown at I, which knobs constitute the rubbers.

The knobs are so placed upon the slats that the series break joints with each other, thus forming an unbroken surface in the line of the circumference of the cylinder. The series constitute a flexible belt that embraces the sides and under portion of the roller C.

One end of the series F is supported in a bearing, J, at each end of the box A. The opposite end of the series is supported by the springs K K, which are adjustable in the notches in the plate L, which is attached to the series F. In this manner the flexible series F is held in contact with the surface of the fluted roller C; but, in consequence of its flexibility and the action of the springs K, clothes which are introduced into the machine will pass constantly under pressure between the roller and rubber. The series F can be removed from the box by releasing the springs K and lifting upon the bar J'.

The rotation of the roller may be in either direction or in alternation.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The flexible series of rubbers F, when constructed and arranged as described, in combination with the springs K and fluted roller C, the several parts operating substantially as and for the purpose herein set forth.

D'ARCY PORTER.

Witnesses:

W. H. BURRIDGE,  
P. A. BRINK.