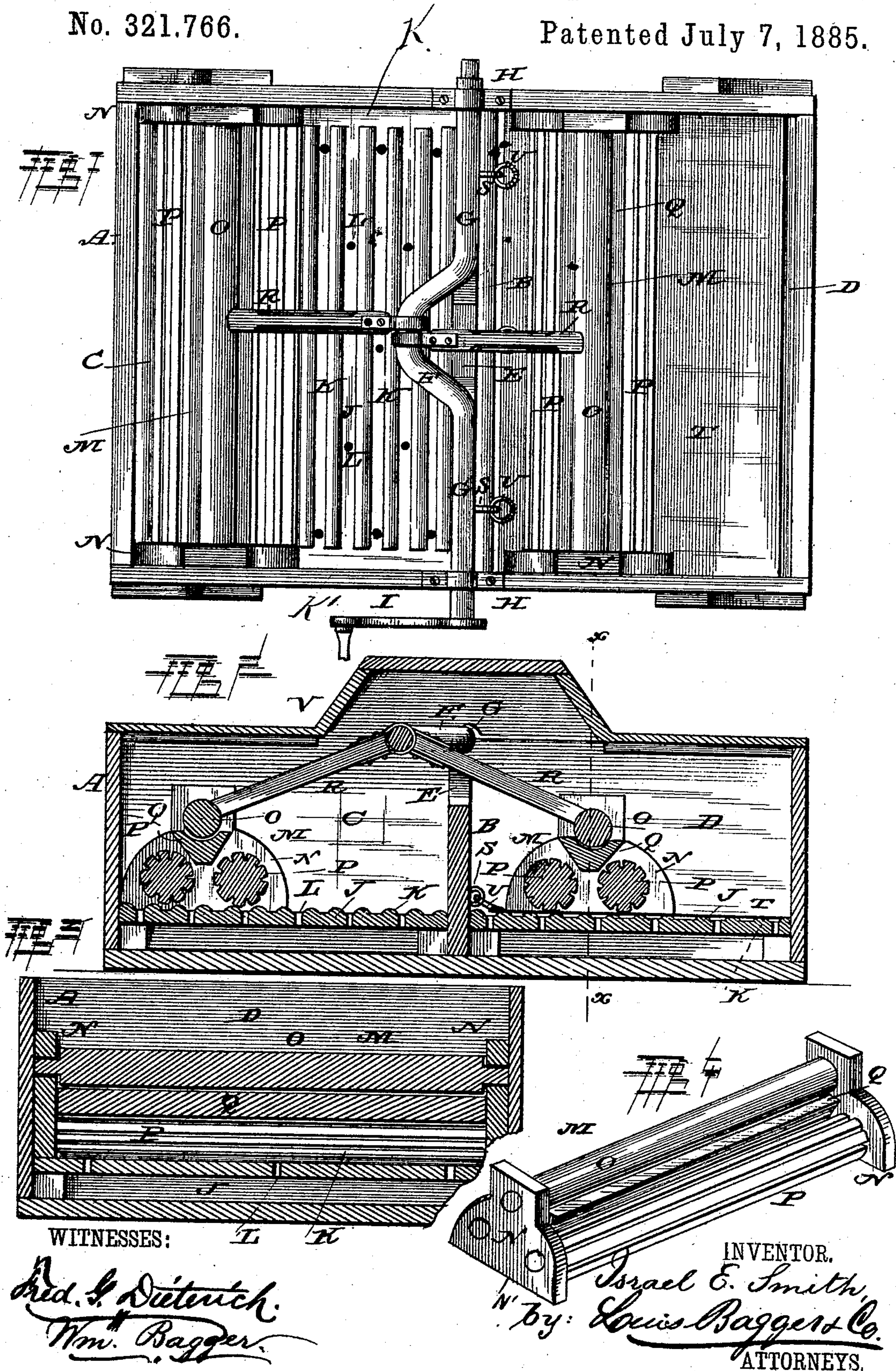


(No Model.)

I. E. SMITH.
WASHING MACHINE.

No. 321,766.

Patented July 7, 1885.



UNITED STATES PATENT OFFICE.

ISRAEL E. SMITH, OF YORK, PENNSYLVANIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 321,766, dated July 7, 1885.

Application filed May 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, ISRAEL E. SMITH, a citizen of the United States, and a resident of York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of my improved washing-machine, with the cover removed from the same. Fig. 2 is a longitudinal vertical sectional view of the machine with the cover in position. Fig. 3 is a transverse vertical sectional view on the line *x x* in Fig. 2; and Fig. 4 is a detail view in perspective of one of the rubbers detached.

The same letters refer to the same parts in all the figures.

This invention relates to washing-machines; and it has for its object to produce a machine which shall possess superior advantages in point of simplicity, durability, and general efficiency, and which shall be provided with two distinct and separate compartments, adapted to receive, respectively, fine and coarse garments, and provided each with a separate rubbing or washing device, both being operated by a single crank-shaft.

To these ends my invention consists in the improved construction and arrangement of parts, which will be hereinafter fully described and particularly pointed out in the claim.

In the drawings hereto annexed, A designates a rectangular tub or box, provided with a central transverse partition, B, dividing it into two compartments, C and D. The partition B is provided with a recess, E, to admit of the passage of the crank F of a shaft, G, which is mounted transversely above the said partition in suitable bearings, H H, upon the sides of the box. One end of the said shaft is provided with a suitable operating handle or crank, I.

The compartments C and D are provided with false bottoms, J, having transverse rubbing-strips K and perforations L through which the dirt and sediment may settle to the

bottoms of the said compartments, from which it may be afterward removed by removing the said false bottoms. The rubbing-strips extend nearly from one side edge of the bottoms to the other, leaving smooth tracks K' at each edge.

M M are the rubbing devices, one of which is located in each compartment. They consist of end pieces, N N, connected by a pivoted bar, O, and having bearings for a pair of grooved or corrugated rollers, P P, between which and the said connecting-bar a guard or shield, Q, is interposed in order to prevent the clothes from catching between the rollers and the said connecting-bar. The end pieces, N, of the rubbers have straight lower edges, N', which slide upon the smooth tracks K' when the rubbers are reciprocated. The connecting-bars of the respective rubbers are connected by pitmen R R with the central crank, F, of the shaft G, by means of which the rubbers may thus be operated.

The partition wall of the compartment D, which is intended for garments of a fine and delicate texture, is provided with hooks S S, to which an apron, T, is detachably connected by means of rings or eyes U U. This apron serves in practice to cover the clothes and preserve them from direct contact with the rubbing-rollers.

A cover, V, is provided for the machine, the central portion of which is raised, as shown, so as to admit of the operation of the crank-shaft.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood.

The clothes being placed in their respective compartments, and the cover having been placed in position, it is only necessary to revolve the crank-shaft, thus imparting a reciprocating motion to the rubbers or rollers. This will thoroughly agitate the water or suds, and serve to cleanse the clothes in the most speedy and effective manner.

This improved machine may be constructed at a very moderate expense. It is simple, convenient, and easily operated.

I claim as my invention, and desire to secure by Letters Patent of the United States—

In a reciprocating rubber washing-machine,

the combination of the perforated false bottom of the suds-box, provided with the rubbing-strips K, and formed with the smooth tracks K' at their side edges, with the rubbers
5 having the end pieces, N, formed with straight lower edges, N', provided with the rollers P and shield Q, and having means, as described, for reciprocating them, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ISRAEL E. SMITH.

Witnesses:

ROBERT A. SIMPSON,
WALTER C. ZIMMERMAN.