No. 661,514. Patented Nov. 13, 1900.

Z. GAILLARD.

WASHING MACHINE.

(Application filed Dec. 18, 1897.)

(No Model.)

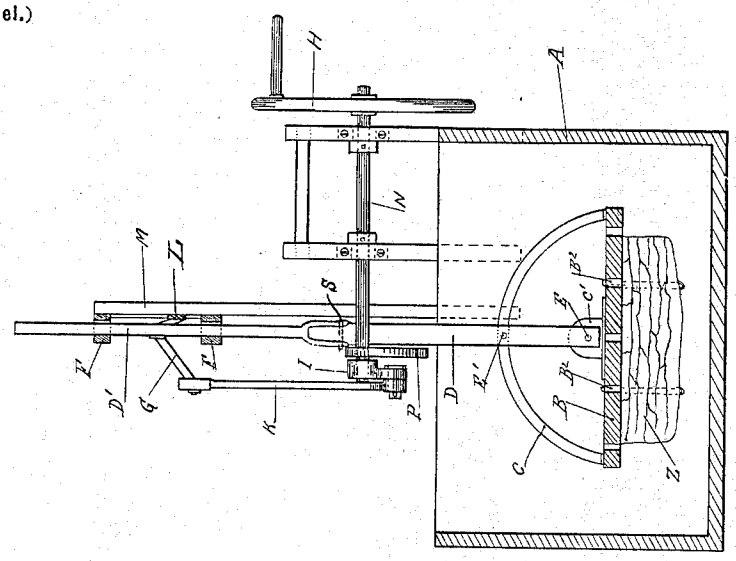


Fig. 2.

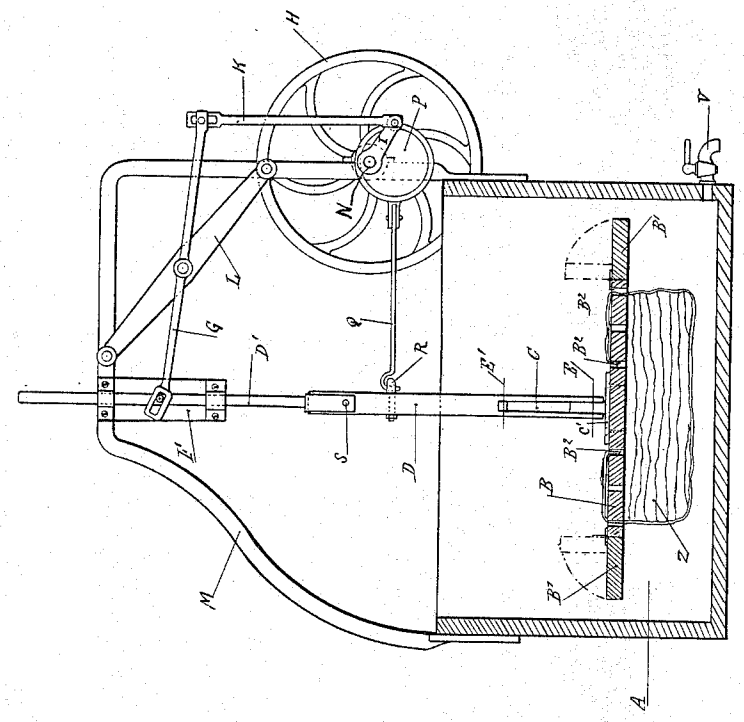


Fig. 1.

Witnesses:-
Jas. A. Richmond.
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Inventor:
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by G. Dittmar
her Attorney

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UNITED STATES PATENT OFFICE.

ZÉNAÏDE GAILLARD, OF ST. GERVAIS LES BAINS, FRANCE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 661,514, dated November 13, 1900.

Application filed December 18, 1897. Serial No. 662,769. (No model.)

To all whom it may concern:

Be it known that I, ZÉNAÏDE GAILLARD, a citizen of the French Republic, residing at St. Gervais Les Bains, Haute-Savoie, France, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of the present invention is to provide a machine for washing clothes so constructed as to obtain a quick and perfect cleaning of the clothes.

The apparatus is shown in the annexed drawings, in which—

Figure 1 represents a longitudinal section, and Fig. 2 a transverse section, of the machine.

My improved apparatus consists of a receptacle A, in which a plate B is adapted to be moved. Said plate B is served with hinged members of leaves B′, having an upward movement, as shown dotted in Fig. 1, and is provided with perforations B^2 to receive the cords for securing the clothes under the plate. The plate B is carried by a semicircular frame C and by a connecting-piece C′, loosely connecting the plate in the forked end of a shaft D by means of pins E and E′ in such a manner that when the pin E′ is removed the plate can be turned around the other pin E.

The shaft D is adapted to be received by its upper part in the forked extremity of a shaft D′ and is loosely retained therein through any common and appropriate means—for instance, by means of a pin S. Said shaft D′ is guided in a bracket F, secured in the upper part of the frame M, and is operated by a working beam G, receiving motion from a fly-wheel H by means of a crank I and connecting-rod K.

The axis of the working beam is mounted in a bracket L, secured to frame M. On the driving-shaft N, carrying the fly-wheel H and the crank I, is also mounted an eccentric P, the rod Q of which is hooked to a ring R on the shaft D and causes said shaft to move horizontally to and fro, the pin S serving as the axis for such motion.

The machine operates as follows: The clothes Z having been attached to the plate B by means of cords passed through the holes B^2, the receptacle A is filled with soap-water and the fly-wheel H is set in motion, the rod Q being unhooked from the ring R. The plate B and the shafts D D′ are then reciprocated vertically by means of the working beam, thus beating and pressing the clothes on the bottom of the receptacle A. When the clothes are considered as sufficiently cleansed, the soap-water is drawn off by a tap V, located in the lower part of the receptacle. The connecting-rod K is then removed and the eccentric-rod Q is hooked to the ring R, whereupon clear water is admitted to the receptacle and the fly-wheel H is turned, the rod Q thus causing the shaft D, with the plate or clothes-holder B, to move to and fro and around the axis S. The clothes in this way being constantly agitated in the water are rinsed perfectly and rapidly. The rinsing-water is then drawn off and the operation is ended.

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

In a machine for washing clothes, the combination of a water-receptacle, a frame carried thereby, a shaft vertically movable in said frame, a plate connected to said shaft, means for securing the clothes to said plate, and means for imparting a horizontal reciprocating motion to said shaft, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ZÉNAÏDE GAILLARD.

Witnesses:
FRIED. ZIMMER,
EUGÈNE BOULANGER.