(No Model.)

J. A. MENGEL.

WASHING MACHINE.

No. 483,723. Patented Oct. 4, 1892.

Fig. 1.

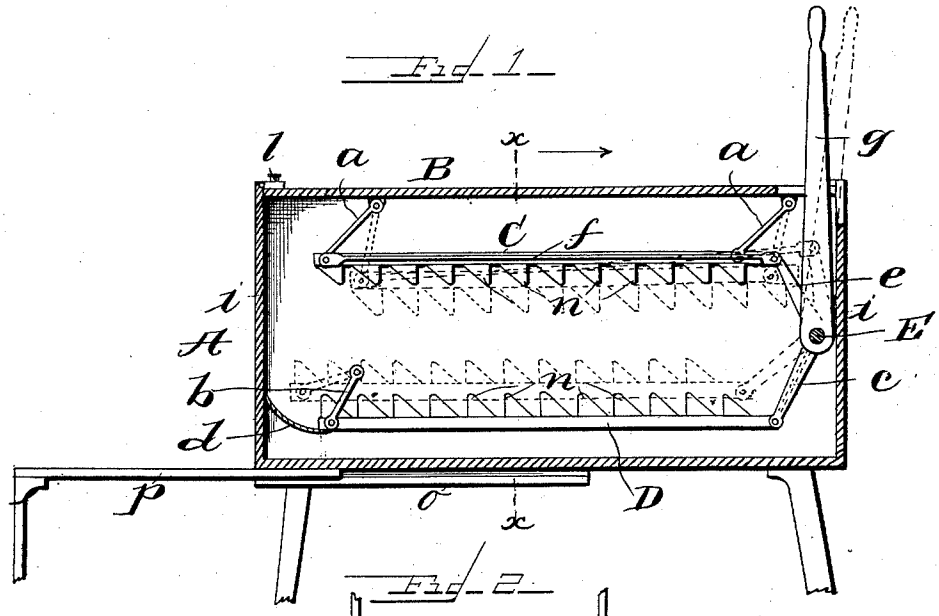


Fig. 2.

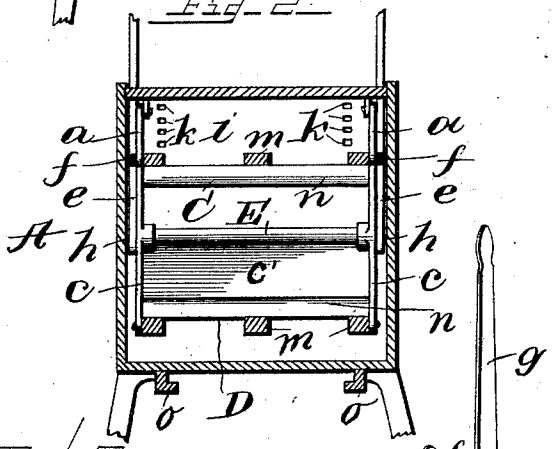
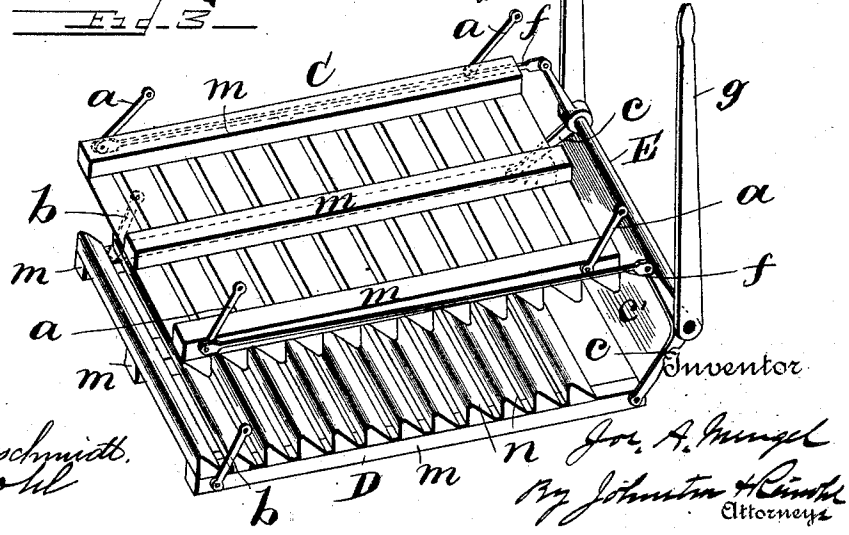


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH A. MENGEL, OF McKEANSBURG, PENNSYLVANIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 483,723, dated October 4, 1892.

Application filed January 11, 1892. Serial No. 417,720. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. MENGEL, a citizen of the United States, residing at McKeansburg, in the county of Schuylkill and State of Pennsylvania, 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.

My present invention relates to washing-machines, and has for its object certain improvements in construction, which will be fully disclosed in the following specification and claims.

In the accompanying drawings, which form part of this specification, Figure 1 represents a longitudinal section; Fig. 2, a transverse section on the line *x x*, Fig. 1; and Fig. 3, a perspective of the rubbers removed from the tub.

Reference being had to the drawings and the letters thereon, A indicates a washtub supported on suitable legs; B, the cover, to the under side of which is attached a rubber C by links *a a*, pivotally secured to the cover and the rubbers. The cover is adjustable vertically in the tub to bring the rubbers into proper position, according to the quantity of clothes to be placed between them for washing.

D indicates the lower rubber, which is pivotally supported upon links *b b*, secured to the sides of the tub at one end, and at its opposite end is attached to the lower arms *c* of a rock-shaft E, said lower arms having a web *c'* extending from one arm to the other and across the lower rubber, which prevents clothes from getting under the rubber at that end of the tub, and a guard *d* at the opposite end of the tub serves the same purpose. The upper arms *e e* of the rock-shaft are connected to the upper rubber by rods *f f*, and to said rock-shaft are attached hand-levers *g g*, by means of which the rubbers are operated. The rock-shaft is suitably supported in the sides *h h* of the tub, and in the ends *i i* of the tub are recesses *k* to receive a sliding bolt *l*, of which there should be two at each end of the cover B.

The rubbers are composed of longitudinal bars *m*, to which are secured transverse serrated surfaces *n*, which may be of sheet metal or wood, and as they are reciprocated by the levers *g g* and the rock-shaft E they approach and recede from each other alternately, thus applying pressure to the clothes being washed and causing them to be revolved between the rubbers and thoroughly rubbed and cleansed.

On the under side of the tub A and at one end are cleats *o o*, between which is inserted a stand or table *p*, which when drawn out, as shown in Fig. 1, forms a convenient support for a clothes-basket.

Having thus fully described my invention, what I claim is—

1. In a washing-machine, a pair of rubbers composed of a series of longitudinal bars having transverse serrated rubbing-surfaces attached thereto, vibrating links upon which the rubbers are suspended, and a rock-shaft having a web the width of the rubbers and said web connected to the lower rubber, in combination with rods connecting the upper arms of the rock-shaft to one end of the upper rubber.

2. In a washing-machine, the combination of a vertically-adjustable cover having a rubber pivotally secured to the under side, a rubber pivotally connected to the sides of the tub at one end and to an arm of a rock-shaft at the opposite end, and connections for imparting a reciprocating and vertical movement to the rubbers.

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

JOSEPH A. MENGEL.

Witnesses:
D. C. REINOHL,
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