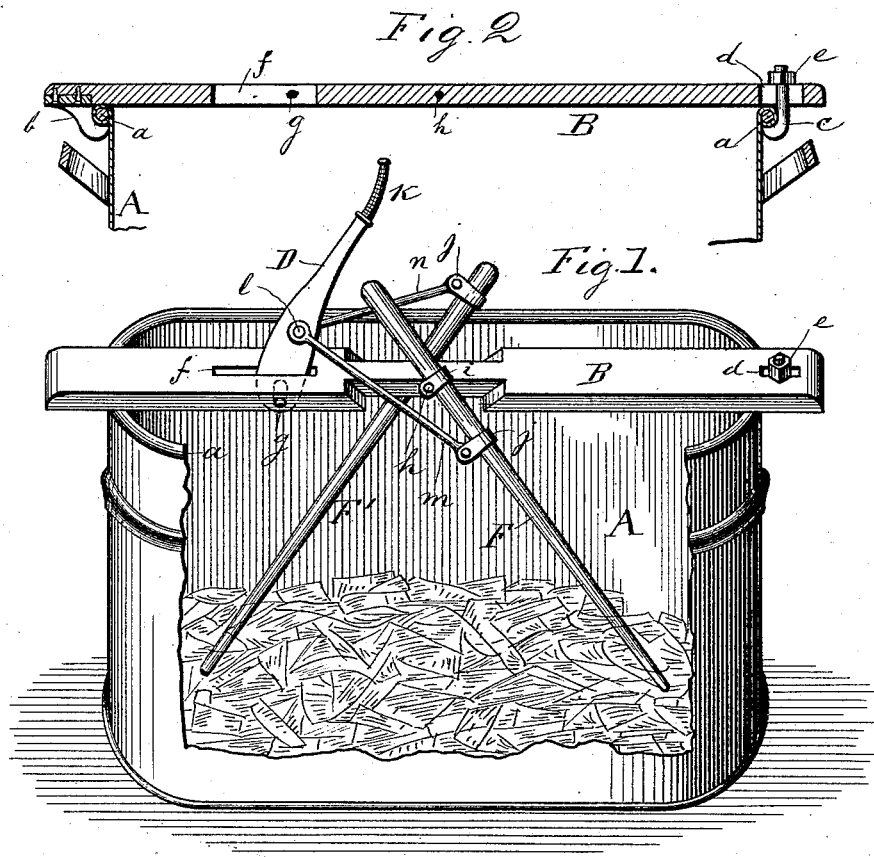


(No Model.)

J. STARCK.
WASHING MACHINE.

No. 419,732.

Patented Jan. 21, 1890.



Witnesses:
Otto A. Pabst
Rudolph Wm. Lotz

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UNITED STATES PATENT OFFICE.

JOHANNA STARCK, OF ENGLEWOOD, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 419,732, dated January 21, 1890.

Application filed August 26, 1889. Serial No. 322,038. (No model.)

To all whom it may concern:

Be it known that I, JOHANNA STARCK, a citizen of the United States of America, residing at Englewood, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide an attachment to wash-boilers in order to stir, pound, dash, and rub the clothes therein during or after boiling the same with soap and water; and with this object in view my invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

15 In the accompanying drawings, Figure 1 represents a perspective view of a wash-boiler with my device attached; and Fig. 2, a longitudinal vertical section of the upper part of the boiler, showing the manner of attachment of the beater device.

20 Corresponding letters of reference in the several figures of the drawings designate like parts.

25 A denotes the wash-boiler, of any usual construction, with its upper edge *a* being wire-bound. Upon this boiler is secured a plank 30 B, having a rigid hook *b* under one end, that slips under and grasps the wired edge of one end of the boiler, and a hook-bolt *c*, projected through a slot *d* in the opposite end of plank B, and is provided with a nut *e*. Said bolt *c*, 35 with its hook, is slid along to engage the wired edge of the opposite end of the boiler, and then is fixed by turning the nut *e*. This plank B is slotted at *f* for the lower end of a lever D, pivoted therein on a pin *g*, passed through 40 a hole bored horizontally through such plank B and through the lower end of said lever D. In its middle the plank B is notched out from both sides, and on a pin *h*, projected through a hole in the center of this notched portion of

plank B, are pivoted two levers F and F, one 45 to each side, each being embraced by a ring-band *i*, having an eyed lug that provides the pivotal bearing. Each such lever F and F extends downward so that when in a vertical position it will nearly reach the bottom of 50 boiler A, and each such lever F and F is extended above its fulcrum a sufficient length. At equal distance from its fulcrum each lever F and F is embraced by another eyed ring-band *j*, one lever F below and the other lever 55 F above its fulcrum, and intermediate of the fulcrum-pin *g* and its handle *k* the lever D is bored for a pin *l*. Links *m* and *n* pivotally connect the ring-bands *j* of levers F and F with the pin *l* at opposite sides of lever D. 60

By grasping the handle *k* of lever D and by rocking it to and fro a simultaneous pendulum motion is imparted to levers F and F in opposite directions, whereby the clothes in the boiler are agitated, stirred, pounded, 65 dashed, and rubbed against each other all in the most thorough manner, whereby the dirt adhering thereto is loosened.

This device requires very little power for operating it, and it can be readily attached to 70 a wash-boiler and detached again after the washing has been completed.

What I claim is—

75 The combination, with a wash-boiler, of plank B, detachably secured to the top thereof, of operating-lever D, and of pendulum-levers F and F, pivotally secured to plank B, and the levers F and F pivotally connected, one above and the other below its fulcrum, with lever D by links *m* and *n*, all substantially as described, to operate as specified. 80

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

JOHANNA STARCK.

Witnesses:

WILLIAM H. LOTZ,
RUDOLPH W. LOTZ.