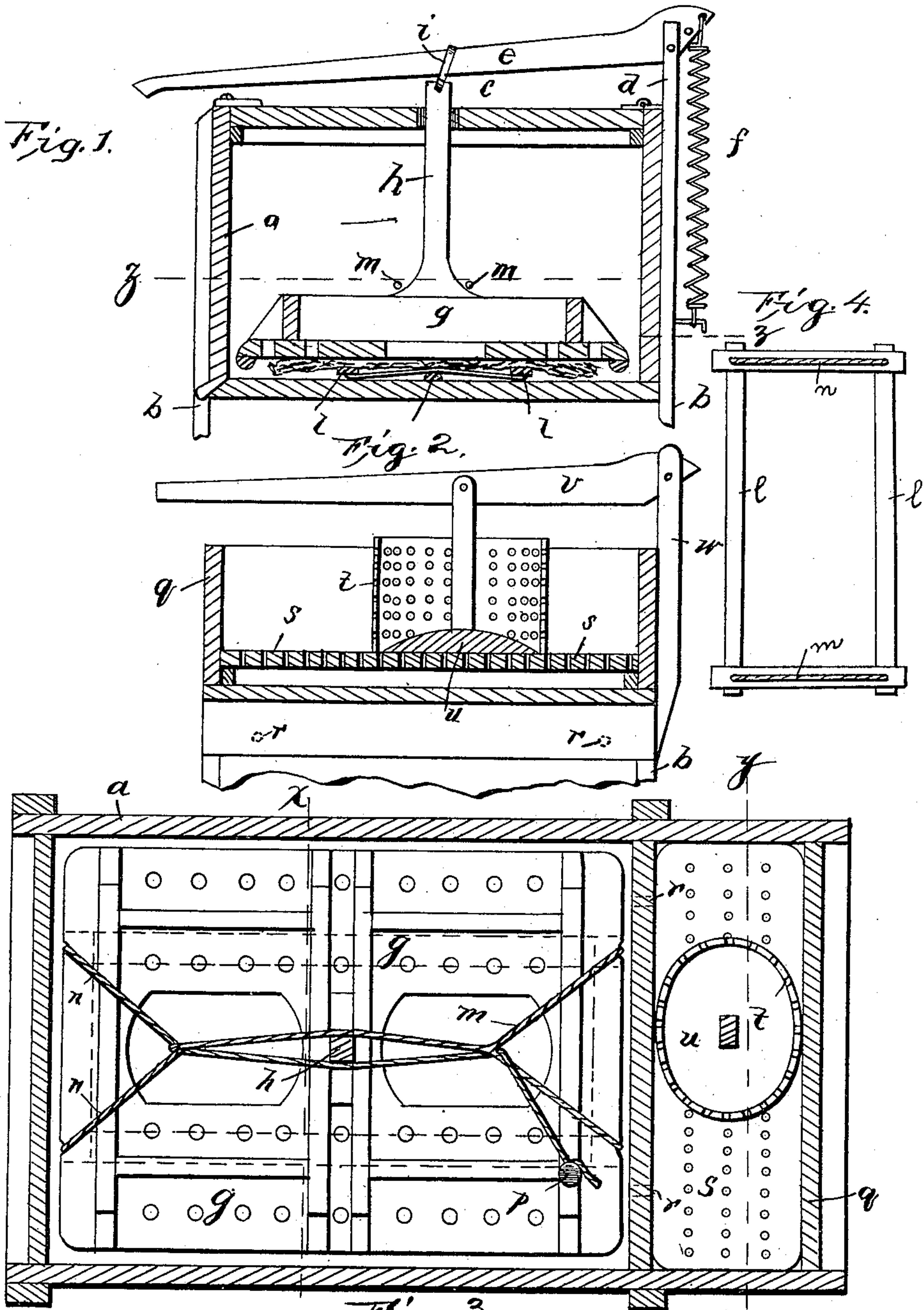


(No Model.)

J. FLYNN.
WASHING MACHINE.

No. 480,083.

Patented Aug. 2, 1892.



WITNESSES:

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JOHN FLYNN, OF VAIL, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 480,083, dated August 2, 1892.

Application filed October 28, 1891. Serial No. 410,081. (No model.)

To all whom it may concern:

Be it known that I, JOHN FLYNN, of Vail, in the county of Crawford and State of Iowa, 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, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in washing-machines.

The object of the invention is to provide certain improvements in washing-machines having reciprocating or otherwise movable beaters or pounders, whereby the clothes will be thoroughly washed and cleansed in a short space of time and with a minimum expenditure of labor.

A further object is to provide a washing-machine with an improved attachment for wringing the clothes.

These objects are accomplished by and this invention consists in certain novel features of construction and in combinations of parts more fully described hereinafter, and particularly pointed out in the claim.

Referring to the accompanying drawings, Figure 1 is a cross-section of the improved machine, taken on plane of line $x x$, Fig. 3, parts being shown in operative position. Fig. 2 is a cross-section through the closed pressing or wringing attachment. Fig. 3 is a horizontal sectional view of the machine, taken in plane of line $z z$, Fig. 1. Fig. 4 is a detail plan view of the clothes-holding rack.

In the drawings reference-letter a indicates the suds-box, suitably mounted or supported, as by legs b , and provided with a cover c . A standard d extends up from one side of the box, and the rocking-lever e is fulcrumed at one end to this standard, so as to extend across the suds-box above the cover.

f is the spring secured to the lever at the opposite side of its fulcrum from the handle and detachably secured at its opposite end to the box and tends to hold the handle end of the lever raised. This spring acts as a coun-

ter-balance to assist in rocking the lever and reciprocating the pounder.

g indicates the pounder, adapted to be vertically reciprocated in the box by means of the rigid arm h , extending up from the central portion of the pounder loosely through an aperture in the cover and at its upper end detachably secured to the lever by suitable means, such as connection i . The pounder is preferably provided with openings and is formed of a suitable number of flat pieces, which are perforated, as shown, and rigidly secured together.

Suitable means are provided by which the articles to be cleansed are detachably held and secured to the pounder, this means preferably consisting of the light frame of one or more bars l , secured together and provided with attaching or securing means to hold said rack or frame against the under side of the pounder, so that the clothes are held between the pounder and the bars of said rack and so that the pounder draws the clothes up and down through the water and soap-suds, and also pounds or beats them, thereby thoroughly cleansing the clothes in a very short time and with a minimum expenditure of power.

Suitable means can be provided for detachably securing the holding-rack to the pounder. Cords m are preferably employed for this purpose, as the quantity of material to be operated upon and held to the pounder varies greatly. At the present time the preferred construction is that shown, which consists of the loop n , secured to one end of the holding rack or bars l and extending up over the pounder, and a cord m , secured to the opposite end of the holding-rack and extending up over the pounder and passed through said loop n , and then brought back and twisted around the button p , secured on the upper face of the pounder, thereby holding the rack and clothes in position on the pounder. The rack can thus be easily secured or released.

The term "rack" as I use it in the specification and claim covers a single bar or several bars. The holding-rack can be made of two or more bars. Fig. 4 shows two bars and Fig. 1 three bars.

In using the devices the cover is swung up,

the rocking-lever being first released from the rigid arm of the pounder, and the pounder is then raised up onto the suds-box and the clothes secured to or removed therefrom. The
5 pounder can be rested on end in the box to allow the clothes to cool or drain. At one end or side of the box a supplemental vessel or box *q* is formed, with its bottom considerably
10 above the bottom of the suds-box and inclined toward the same, holes *r* being provided, so that water from the said receptacle *q* can run into the suds-box. A perforated
15 plate *s* is located in this receptacle *q*, so as to rest on blocks or pieces which hold it above the bottom thereof, and on this perforated
plate a perforated cylinder or box *t*, open at the top and bottom, rests. An imperforate
20 plunger *u* is provided to reciprocate in the said perforated box, and this plunger has a rigid arm loosely pivoted to the rocking-lever
v, fulcrumed at one end to the standard
w. When the clothes have been sufficiently
25 washed in the suds-box, they are removed from the pounder and placed in said perforated box of the pressing or wringing device,
and the imperforate plunger or presser is then inserted in the box on the clothes and is forced down by means of its lever, thereby
pressing the water from the clothes, which

flows out through the perforations of the box 30
and down through the perforated plate and discharge openings into the suds-box. By means of this pressing device the clothes can be pressed and partially dried. The perforated box and perforated plate are removable 35
and separate.

The suds-box can be provided with a suitable opening for drawing off the water.

Having thus fully described my invention, what I claim as new, and desire to secure by 40
Letters Patent of the United States, is—

In a washing-machine, the combination of the suds-box, the pounder having the openings and formed of the perforated pieces and provided with the rigid upwardly-extending 45
arm, and the operating means for the pounder, and the holding-rack to secure the articles to be washed to the underside of the pounder, and the cords for detachably holding the said
rack in position. 50

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

JOHN FLYNN.

Witnesses:

M. R. McGRATH,
M. J. CASEY.