No. 713,065. Patented Nov. 11, 1902.

F. J. & M. C. COON.

WASHING MACHINE.

(Application filed Nov. 4, 1899.)

(No Model.)

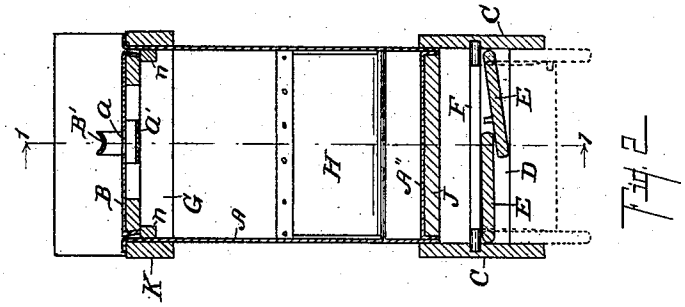


Fig. 2.

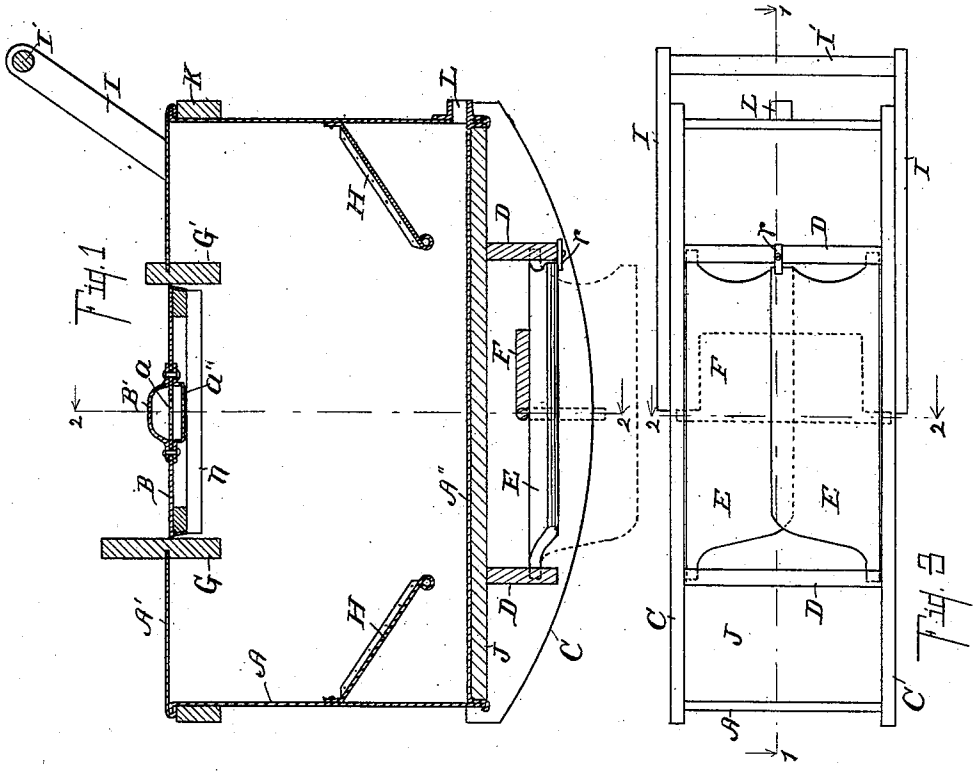


Fig. 1.

Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK J. COON AND MEAD C. COON, OF BATTLECREEK, MICHIGAN.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 713,065, dated November 11, 1902.

Application filed November 4, 1899. Serial No. 735,785. (No model.)

To all whom it may concern:

Be it known that we, FRANK J. COON and MEAD C. COON, citizens of the United States, residing at the city of Battlecreek, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention relates to improvements in washing-machines.

The object of this invention is, first, to provide certain improvements in the style of washing-machine for which Letters Patent of the United States No. 495,307 were issued to us on the 11th day of April, 1893, besides making other distinct improvements in washing-machines.

The objects of the invention in detail are, first, to provide an improved means for use in connection with washing-machines of this class of raising the body of the machine off the floor for the purpose of drawing off the water or suds; second, to provide an improved construction whereby the return flow of the water in rocking the machine will be directed with strong force from above against garments placed within the same, while at the same time the contents of the machine are being agitated by the discharge of the air from the air-chamber below.

Further objects will definitely appear in the detailed description to follow.

We accomplish the objects of our invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of our invention is clearly illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a vertical longitudinal detail sectional elevation of a washing-machine embodying the features of our invention, the view being taken on a line corresponding to lines 1 1 of Figs. 2 and 3. Fig. 2 is a vertical transverse detail sectional elevation of the washing-machine, taken on a line corresponding to lines 2 2 of Figs. 1 and 3, one of the positions of the elevating-support being indicated by dotted lines in each of these views. Fig. 3 is an inverted plan view of a washing-machine made according to our invention.

In the drawings all of the sectional views are taken looking in the direction of the little arrows at the ends of the section-lines, and similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, A is the rectangular receptacle or body of the machine, which is provided with a bottom A″ and a top A′. The bottom is supported by a suitable board or foundation J, to which are secured rockers C to each side. Between the rockers are pivoted supports E, which are adapted to fold up between the rockers, as appears in Fig. 2, the pivots being in the cross-pieces D, which extend between the rockers. A button *r* is provided for holding these pivoted supports in position. A central wing F is provided, which is pivoted to the runners C and is adapted to swing down between the supports E E and hold them in the downward position. One end of these supports C is slightly curved.

After the machine has been rocked a sufficient amount for the purpose, or whenever it is desired to release the supports, the little button *r* is turned, which releases the pivoted supports E, which drop down and allow the wing F to swing down between them, which retains them in the operative position. When the machine is rocked back, it will be raised up on these supports, and water and suds may then be easily drained into a pail or other receptacle at L.

Handles I are provided and secured to each side of the washing-machine, with a cross-round I′ at the top for operating the same.

A cover B is provided for the washing-machine, which has a handle B′ and contains a perforation at *a*, which is protected by a shield at *a′* and separated therefrom. Cleats *n* are provided within the machine at the top on which this cover rests, and a frame K surrounds the top and gives rigidity to the sheet-metal body.

Within the body and below and toward each end of the same are partitions H H, extending from each end downwardly and toward the

center, the same being connected to the side walls, but leaving an opening toward the center, thus forming an air-chamber at each end of the machine. The inner edges of the partitions H H are preferably rolled up to avoid any sharp edges.

To each end of the cover in the top of the machine are partitions G G′, extending transversely across the same and a considerable distance downward.

We have now enumerated and specifically described the various parts of our improved washing-machine, but know that these details can be considerably varied without departing from our invention.

In operation the machine is very effective. When garments or other articles are placed in the machine with a quantity of water, the machine is rocked by means of the handle on the rockers C. As the machine rocks back and forth air is admitted to and expelled from the chambers formed by the partitions H H. This air is discharged underneath the clothes, lifting them up in the suds and water. At the same time that the air is discharged from the chamber the water rushes up the inclined partitions H H, up the end of the casing, against the top, and is deflected downward by the partitions G G′ and is thus dashed with great force against the garments or other articles in the machine which have been lifted to the surface by the escape of the air from the chamber underneath. This greatly increases the effectiveness of the device, because it not only secures the advantages of the discharge of air into the articles being laundered, but when they are forced to the top and supported by it they receive the full force of the downward discharge of the water, which very rapidly and effectually cleanses them. As we have before remarked, these results could be secured by numerous modifications of the structure, it being immaterial what material is used in the manufacture.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a washing-machine, the combination of the body of the machine; a pair of rockers to support the same; cross-pieces between the rockers; pivoted supports extending in the direction of the rockers and pivoted next to the same and adapted to fold between the rockers and to drop down beside and beyond the same; and a wing pivoted to the rockers and adapted to swing between the supports to retain them in position, all coacting for the purpose specified.

2. In a washing-machine, the combination of a body; rockers to support the same; pivoted supports extending in the direction of the rockers and pivoted next to the same and adapted to fold between the rockers and drop down beside and beyond the same, and means of retaining them in the folded or in the extended position as may be desired, for the purpose specified.

3. In a washing-machine, the combination of the body; rockers to support the same; partitions extending from each end of the body downwardly toward the center to form air-chambers to receive and discharge air through the water, suds and articles, within the machine; transverse partitions at the top of the machine at a considerable distance from the ends to deflect the water downward from that point into the machine below, for the purpose specified.

4. In a washing-machine, the combination of the body; rockers to support the same; partitions extending from each end of the body downwardly toward the center to form air-chambers to receive and discharge air through the water, suds and articles within the machine; and a deflector above the air-chamber to direct the current of water backwardly and downwardly upon the contents of the machine within, as specified.

In witness whereof we have hereunto set our hands and seals in the presence of two witnesses.

FRANK J. COON. [L. S.]
MEAD C. COON. [L. S.]

Witnesses:
P. C. HALL,
A. R. HENRY.