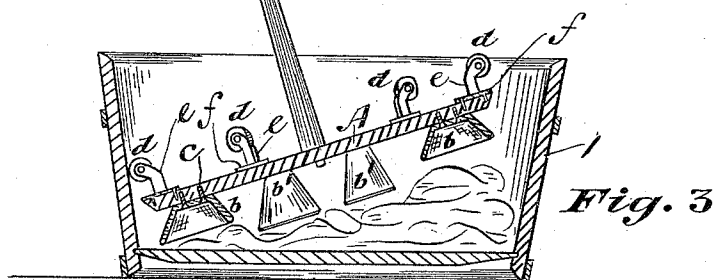
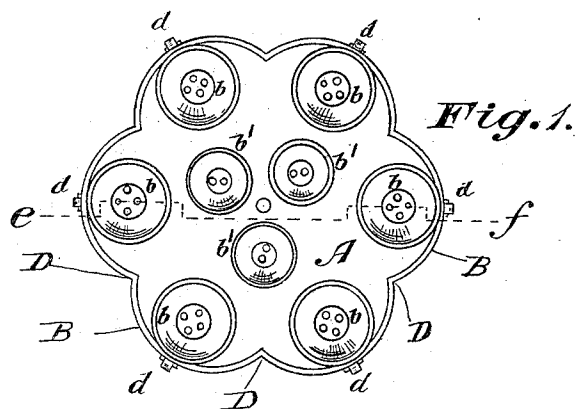


(No Model.)

G. SEGER.
CLOTHES POUNDER.

No. 491,448.

Patented Feb. 7, 1893.



WITNESSES.

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CLOTHES-POUNDER.

SPECIFICATION forming part of Letters Patent No. 491,448, dated February 7, 1893.

Application filed May 9, 1892. Serial No. 432,236. (No model.)

To all whom it may concern:

Be it known that I, GARRET SEGER, of the city of Buffalo, in Erie county and State of New York, have invented certain new and useful Improvements in Clothes-Washers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, in which—

10 Figure 1 is a bottom plan view of my invention. Figs. 2 and 3 represent a section of the same on the line *ef* (Fig. 1) and show how it may be operated in an ordinary wash-tub.

Similar letters of reference indicate corresponding parts in all the figures.

15 This invention relates to improvements in washing machines. The invention relates more especially to that class denominated as pounders, and is adapted for employment in connection with wash-tubs of ordinary construction.

Briefly stated, my invention consists of a pounder-head consisting of a disk having a scalloped and indented periphery and an upwardly-extending operating handle, said disk having on its under face an outer circle or series of inverted cups each of the series of said cups being located within the series of scallops so that the indented portions of the periphery of said disk shall lie between said cups, a central series of inverted cups of greater depth than the depth of the outer series of cups, whereby a substantially convex contour is imparted to the operative lower portion of the apparatus and a rolling or rocking action thereof insured in use whereby the clothes will be horizontally rubbed as well as being vertically operated upon, guide and friction rollers being secured by outwardly-extending arms to the upper face of the disk, all as hereinafter set forth.

My improved washer is adapted to be used in connection with an ordinary wash-tub as represented at 1 in the drawings.

45 The pounder-head consists of a disk, A, having a scalloped and indented periphery, B representing the scallops and D the indentations between said scallops, an operating handle or lever, C, extending upwardly from the center of the top face of said disk whereby said disk may be both vertically reciprocated and rocked horizontally, and a series of in-

verted cups depending from the under face of the disk and a series of outstanding rollers on the upper face thereof. 55

b represents an outer series of inverted cups, depending from and independently and removably secured to the under face of said disk by screws or bolts, *c*. These cups are preferably arranged in one or more concentric circles, one within each of the scallops, B, so that an indented part, D, of the periphery of said disk shall lie between each pair of said cups, *b*. The object of this construction of disk and arrangement of cups is that as the pounder is reciprocated the water will flow up through said indented portions and over the surface of the disk without splashing up. Centrally of said inverted cups, *b*, I arrange a second series of inverted cups, *b'*, which are secured to said disk in a similar manner to that employed in securing the cups, *b*, thereto; said cups, *b'*, however, are of somewhat greater depth than are the cups, *b*, so as to impart to the bottom of the pounder-head an approximately convex form and method of operation in use. The result of this construction is that the pounder-head can not only be vertically reciprocated, but, by reason of the increased depth of the central series of inverted cups forming a fulcrum, be also rocked or oscillated sidewise in a horizontal or angular direction thereby resulting in securing a combined pounding and rubbing of the clothes under treatment without injury thereto, not obtainable where the whole series of cups are of equal depth. The disk may be of wood or metal as desired; the inverted cups may be of conoidal or other suitable shape, and may be of any suitable material as, for instance, galvanized iron, zinc, or the like. 75 80 85 90

d represents a series of elevated casters or rollers corresponding in number with the number of inverted cups, *b*, in the outer circle or series; these casters or rollers are pivotally journaled in the upper ends of upwardly and outwardly-extending arms or frames, *e*, independently and removably secured to the top face of the disk by screws or bolts passing through the plates or flanges, *f*,; these arms or frames, *e*, and rollers, *d*, are so arranged that one of each shall be over each of the outer series of inverted cups, *b*; as the outwardly-extending upper portions of said arms or frames, 95 100

e, carrying the casters or rollers project beyond the periphery of the disk, said casters or rollers are brought against the sides of the tub during the rocking or oscillatory movements of the pounder-head, thereby affording a guiding and bracing support to the same and insuring the free and easy and steady reciprocation of the pounder and preventing undue strain upon the cups. The casters or rollers being elevated above each cup of the outer series and projecting outwardly beyond the periphery of the disk, as the disk is rocked on the central series of deeper cups, said rollers come in contact with the sides of the tub and besides serving as guides facilitating the easy reciprocation of said disk also act as a fulcrum thereto and give the washer a lateral sliding motion. It will thus be evident that by giving long gentle sweeps to the handle, C, the washer has imparted to it combined vertical and oscillatory movements which result in both a pounding and a rubbing of the clothes; the oscillation of the washer and the rubbing of the clothing being rendered much more effective by reason of the increased depth of the inner series of inverted cups,

and the thorough cleansing of the clothes effected more rapidly and with less effort on the part of the user than were the entire series of cups of uniform depth.

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

A washing machine, consisting of a disk having a scalloped and indented periphery, a series of inverted cups depending from the under face of said disk in a substantially concentric outer circle and located between the indentations in the periphery of said disk, a series of inverted cups depending from and located centrally of said disk and of greater depth than the depth of the outer series of cups, upwardly and outwardly-extending arms secured to the upper face of said disk, rollers journaled in the upper portions of said arms, and an operative handle extending vertically upward from the center of said disk, substantially as and for the purpose set forth.

GARRET SEGER.

Witnesses:

A. F. CROW,
JNO. F. HILL.