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WASHING MACHINE.

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1,132,484. Patented Mar. 16, 1915.

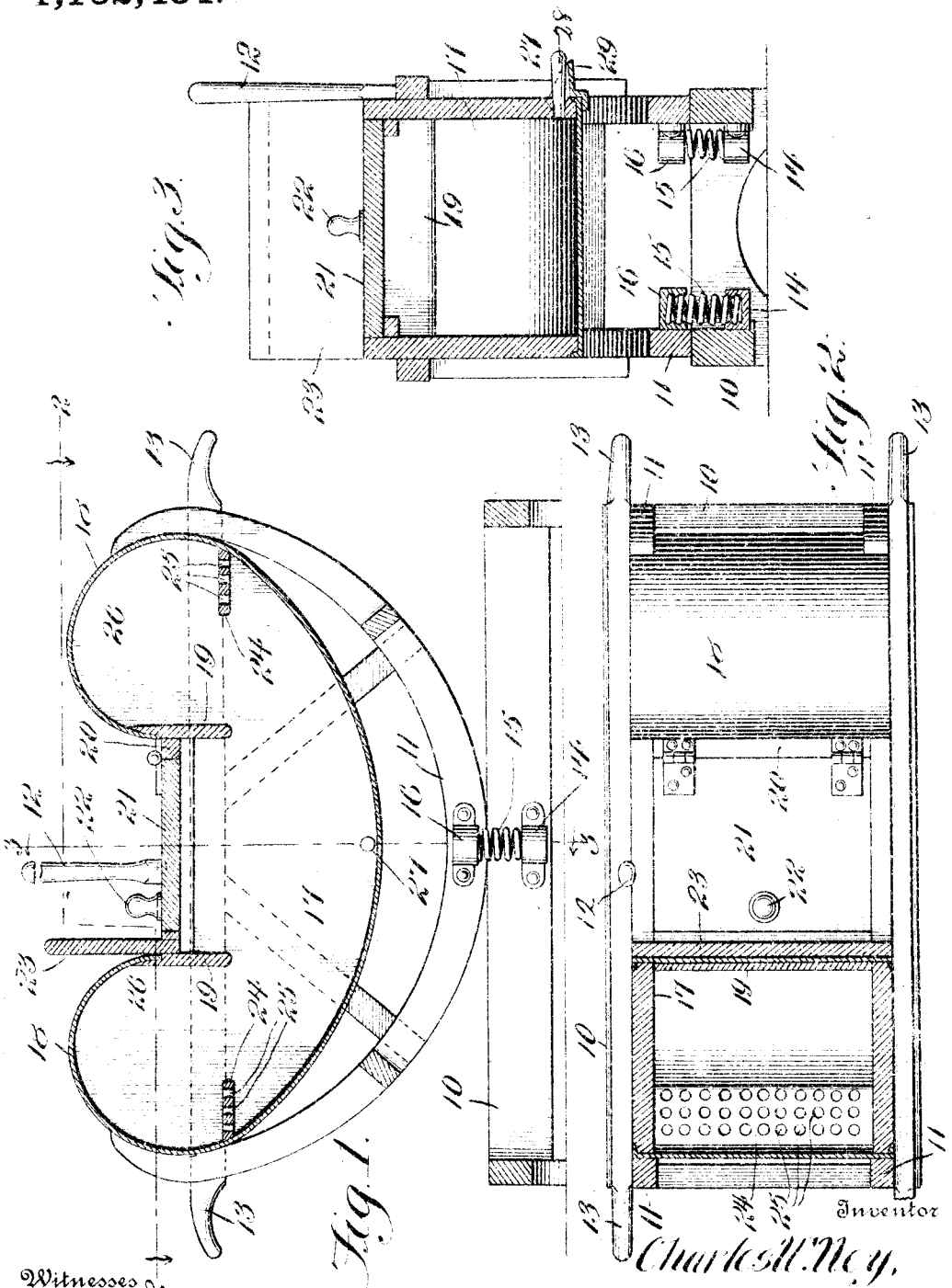


Fig. 1.

Witnesses

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WASHING-MACHINE.

1,132,484. Specification of Letters Patent. Patented Mar. 16, 1915.

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To all whom it may concern:

Be it known that I, CHARLES W. NEY, a citizen of the United States, residing at Schuylkill Haven, in the county of Schuylkill and State of Pennsylvania, have invented new and useful Improvements in Washing-Machines, of which the following is a specification.

An object of the invention is to provide a machine for washing clothes and the like.

The invention embodies more particularly a casing adapted to receive the clothes, together with water and a suitable cleansing substance, such as soap, the said casing being mounted to oscillate or rock and formed with bulging ends, constituting compartments adapted to receive water as the casing is rocked so that an air cushion will be formed in the bulging end of the casing toward which the same is rocked, the mentioned air in the bulging end of the casing being then forced downwardly through the clothes contained in the casing, apertured baffle plates and flanges being provided to limit the swishing movement of the clothes in the casing so that the clothes will be prevented from passing into the bulging ends or compartments of the casings, thus enabling the air which congregates in one of the bulging ends of the casing to be forced through the clothes by the force of the water, at the moment that the casing, having been rocked in one direction, is moved to rock in the other direction.

Although I am aware that various devices have been used heretofore for the purpose of washing clothes, the said devices being movable to rock so that the swishing action of the water in the casing cleanses the clothes, in the use of my device I aim to provide a structure, which in its rocking motion will produce cushions of air, first at one end of the casing and then at the other end of the casing, the said cushions of air being so compressed by the water in the casing that they will be forced through the fabric of the clothes, thus thoroughly and efficiently cleansing the same.

Reference is to be had to the accompanying drawings constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a vertical longitudinal sectional view of my device. Fig. 2 is a horizontal sectional view taken on the line 2—2 in Fig. 1, looking in the direction of the arrows. Fig. 3 is a vertical transverse sectional view, taken on the line 3—3 in Fig. 1, looking in the direction of the arrows.

Referring more particularly to the views, I provide a base 10 having mounted thereon a rocking frame 11 provided with a centrally arranged vertically extending handle 12 and end handles 13. Secured to the base 10 are bearings 14, having the lower ends of springs 15 mounted to repose therein, and secured to the rocking frame 11 are bearings 16 having the upper ends of the springs 15 mounted to repose therein, the said springs being mounted centrally relatively to the base 10 and the rocking frame 11 so that when the rocking frame is rocked in one direction by exerting a pressure on either of the handles 12 or 13, the action of the springs 15 will move the rocking frame in the opposite direction when the pressure is released from the handle.

Rigidly mounted on the rocking frame 11 is a casing 17, the said casing being formed with upwardly extending bulging ends 18 and terminating in depending flange members 19, having secured thereto a horizontal closure casing 20 on which is hingedly mounted a closure 21, provided with a handle 22, the said closure 21 being movable to swing upwardly to permit of placing clothes in the casing 17, together with water and a suitable cleansing material, such as soap or the like. A splash board 23 is secured to the closure casing 20 and extends upwardly therefrom, adjacent the free end of the closure 20, to prevent any undue splashing of water from marring the floor and to permit of more readily pressing a large quantity of clothes into the casing 17.

The flange members 19 depend a distance within the casing 17 and secured to the inner sides of the casing and extending horizontally, in horizontal alinement with the lower ends of the flange members 19, are baffle plates 24 having vertically extending apertures 25 therein, the said baffle plates being mounted to extend toward the flange members 19 so as to provide compartments 26 in the bulging ends of the casing 17, the mentioned bulging ends of the casing 17 being adapted to extend upwardly beyond the upper ends of the rocking frames 11. An opening 27 is provided in the lower end of

the casing 17 for the purpose of permitting the water in the casing to be drawn therefrom when the clothes have been cleansed and the said opening is normally closed by a plug 28, a suitable spout 29 being secured to the casing 17 immediately below the outlet opening 27 for facilitating the exit of the water from the casing, through the opening 27.

In the use of my device, the closure 21 is opened and the clothes to be cleansed, together with a sufficient amount of water and a cleansing material such as soap, are placed within the casing 17, it being understood that the clothes will be prevented from entering the compartments 26 by the depending flange members 19 and the horizontally extending baffle plates 24, which provide restricted openings for the compartments, as will be readily seen by referring to Fig. 1. Now by exerting a pressure toward the right on the handle 12 or exerting a downward pressure on one of the handles 13 the casing 17 will be rocked toward the right and the clothes, moving within the casing, will be forced toward the right end of the casing by the rocking motion of the casing, which forces the water toward the mentioned end of the casing. As the clothes are moved toward the right end of the casing they will be prevented from entering the right hand compartment 26 by the depending flange member 19 and the baffle plate 24 at that end of the casing, while the water will pass through the perforations 25, into the right hand compartment 26, which is filled with air. Now as the casing is rocked in the opposite direction, the force of the water in the right hand compartment 26, will force the air in the compartment downwardly and through the clothes in the casing, the mentioned action of the water in compressing the air and gether with the water which is forced through the clothes, being adapted to cleanse the clothes. As the casing 17 is rocked toward the left, the same operation occurs, the clothes being prevented from entering the left hand compartment 26 by the depending flange member 19 and the baffle plate 24, at that end of the compartment while the water passing through the apertures 25, will force the air in the left hand compartment 26, downwardly and through the clothes at that end of the compartment. Thus it will be seen that with each rocking action of the casing 17, the clothes contained therein will be cleansed by the action of the air and water in the casing. When the clothes have been sufficiently cleansed they can be easily removed from the casing 17 by moving the closure 21 to open position and removing the clothes from the casing, the water in the casing being permitted to flow outwardly therefrom through the opening 27, the plug 28 having been previously removed from the said opening.

I claim:—

In a washing machine, in combination a skeleton base provided with hollow bearings at the center of the inner side of said base, a rocking frame having its upper ends inwardly curved mounted upon the base and provided with hollow bearings in alinement with the first mentioned bearings, springs mounted in said bearings connecting the rocking frame to the base portion, a closure or casing mounted in the upper inwardly curved ends of the rocking frame and handles at each end of the frame.

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

CHARLES W. NEY.

Witnesses:
F. A. Norten,
Bennett S. Jones.