N. N. CHASE.

WASHING MACHINE.

APPLICATION FILED MAR. 26, 1914.

1,112,892.

Patented Oct. 6, 1914.

2 SHEETS—SHEET 1.

Fig. 1.

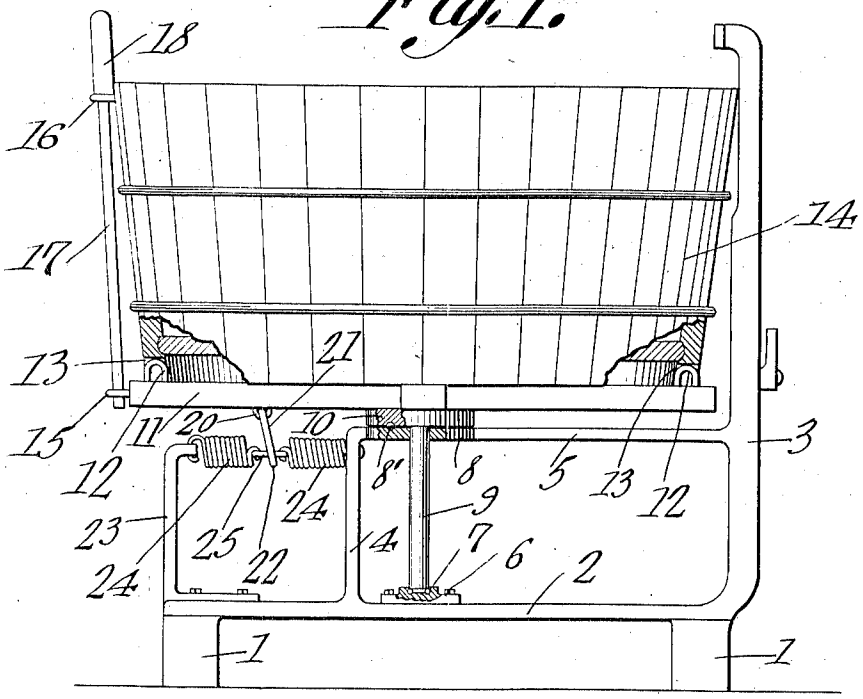
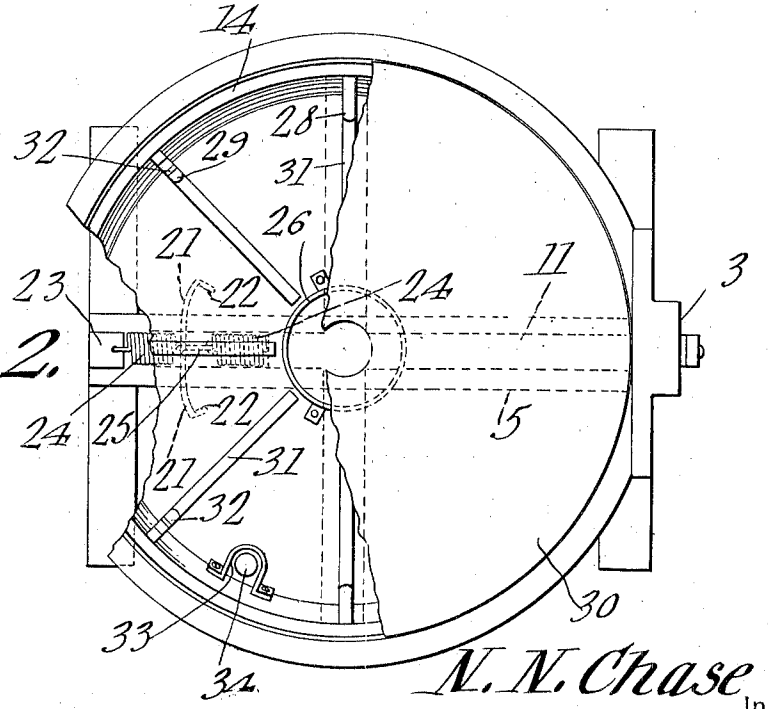


Fig. 2.



Witnesses

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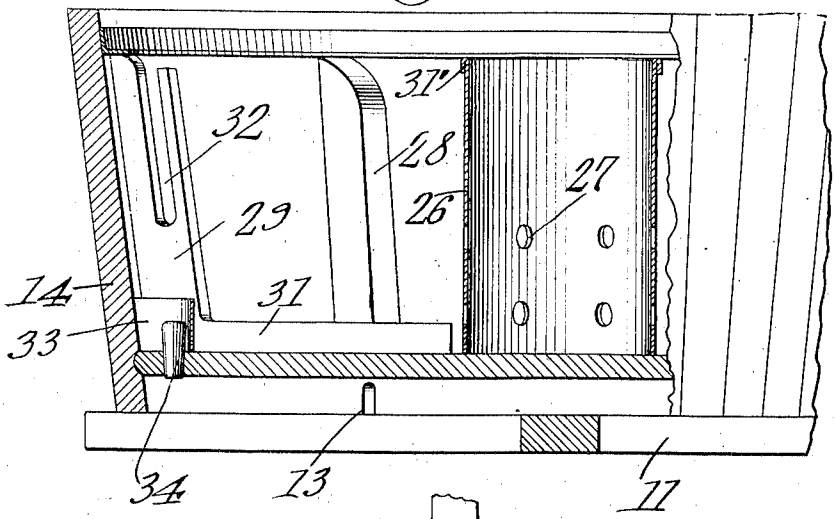
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2 SHEETS—SHEET 2.

Fig. 3.



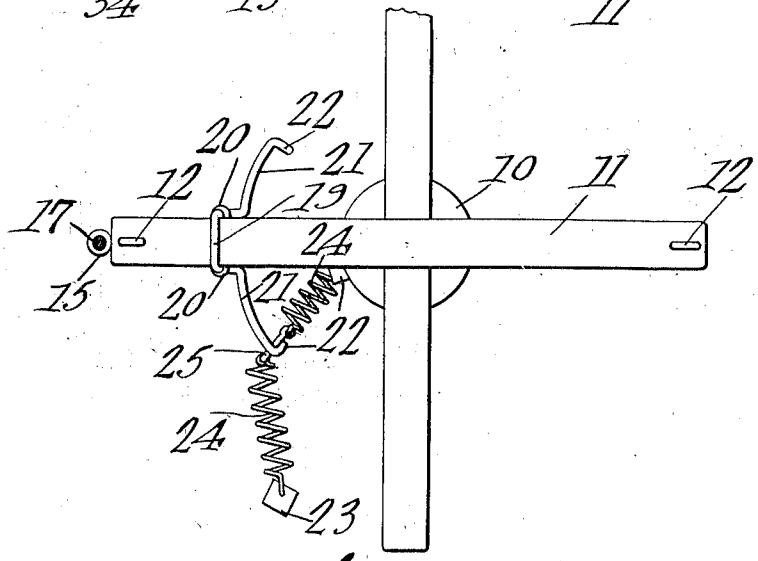


Fig. 4.

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NIAL N. CHASE, OF PEORIA, ILLINOIS.

WASHING-MACHINE.

1,112,892. Specification of Letters Patent. Patented Oct. 6, 1914.

Application filed March 26, 1914. Serial No. 827,456.

To all whom it may concern:

Be it known that I, NIAL N. CHASE, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented a new and useful Washing-Machine, of which the following is a specification.

The present invention relates to improvements in washing machines, one object of the invention, being the provision of a machine having a tub or clothes and suds receptacle provided with means for retaining the clothes that are more soiled adjacent the periphery of the tub, whereby the splashing action of the water will be more concentrated thereupon to assist in cleansing the same, the present washing machine having no rubbing elements to injure the clothes.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings—Figure 1 is a side elevation of the complete washing machine a portion of the tub being shown in section to demonstrate the method of securing the tub to the spider. Fig. 2 is a top plan view thereof with portions broken away. Fig. 3 is an enlarged detailed sectional view through the tub. Fig. 4 is a top plan view of the tub carrying spider showing the relative position of the rebound springs.

Referring to the drawings, the numeral 1 designates the floor engaging portions of the frame, which constitutes the horizontal bar 2, the vertical standard 3, the short vertical standard 4 and the cross bar 5, the complete frame being preferably cast in one piece. A center plate 6 provided with ball bearings 7 is disposed upon the bar 2 and in alinement with the apertured plate 8 of the cross bar 5, the ball bearings 8′ being provided upon the plate 8 at the upper side so that the stem 9 and plate 10 of the spider 11 is properly and anti-frictionally supported.

Connected to two members of the spider 11 are the staples or projections 12, which seat within the recesses 13 formed in the rim of the tub or receptacle 14. Thus the tub is properly attached to the spider 11 so as to rotate or oscillate therewith. A staple or eye member 15 is carried in one end of the spider 11 and is disposed to aline with the staple or eye member 16 carried by the tub, so that the reduced end 17 of the clothes stick 18 may be threaded therethrough and thus assist in attaching the tub 14 to the spider 11, so that the upper end of the stick may project above the tub and constitute a handle whereby the tub and spider 11 is oscillated.

In order to provide a means for assisting in cushioning the action of the spider and tub at the end of each oscillation, the member 19 is disposed astride of one of the members of the spider 11 as clearly illustrated in Fig. 4, being attached thereto by the two staples 20 so that the diverging terminals 21 having the downwardly bent ends 22 may be carried by the spider and be positioned to have one terminal of one end at a time engage the connecting link 25 and the two springs 24, so that such springs act as a cushioning means and assist in starting the tub in the opposite direction. The springs 24 are connected respectively to the post 23 and the post 4. By this construction, the two ends 22 fit astride, at all times, the springs 24 and the connecting link 25, so that as the tub and spider are oscillated, at the end of each stroke one or the other of the ends 22 engages the link and causes the springs to extend, thus relieving the jar and starting the tub and spider in the opposite direction. By this means, the operation of the mechanism is made more easy, and as the member 19 is carried by the spider, the relative position of the springs 24 never change therewith, and the same is always in operable relation when the tub is properly positioned upon the spider.

Disposed concentrically within the tub and upstanding therefrom, is a cylindrical member 26, perforated at 27. This member constitutes a soap receptacle and permits the water to be directed therethrough so that the proper amount of suds will enter the washing chamber of the tub, yet at the same time any particles of soap are prevented from entering the same to be smeared upon the clothes. This cylinder 26 also prevents the collection of the clothes in the center, and insures the greatest possible movement to the same during the oscillation of the tub.

A plurality of vertical ribs 28 are attached to the inner side of the tub, while other ribs 29 are also attached thereto and are bifurcated as at 32 so that the greatly soiled articles may be attached thereto and thus be at all times exposed to the greatest impact during the washing.

The radial ribs 31 are provided in the bottom of the tub, to assist in the proper agitation of the clothes and water therein.

In order to provide a means for closing the tub so as to prevent the splashing of the suds therefrom, a disk cover 30 is provided, the same resting upon the upper ends of the vertical ribs 28 and 29 and being provided with the rim flange 31 which fits about the upper end of the cylinder 26 to prevent any of the articles within the tub from entering the cylinder. In order that the water may be drained from the tub, an outlet spout 33 having the plug 34 is provided.

What is claimed is:

1. A washing machine, having a receptacle, a plurality of radiating ribs attached to the bottom of the receptacle, a plurality of upstanding ribs attached to the wall of the receptacle alined with the radial ribs, certain of said latter ribs being bifurcated to constitute a clothes grip, and a cover engaging the upper ends of the ribs of the wall to seal the receptacle.

2. A washing machine, having a receptacle, a concentrically disposed cylinder with perforations in the lower wall carried by the receptacle, a plurality of radiating ribs attached to the bottom of the receptacle, a plurality of upstanding ribs attached to the wall of the receptacle and alined with the radial ribs, certain of said latter ribs being bifurcated to constitute a clothes grip, and a cover engaging the upper ends of the ribs of the wall and the cylinder.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

NIAL N. CHASE.

Witnesses:
CHAS. H. KIMMEL,
E. W. LOURNAN.