

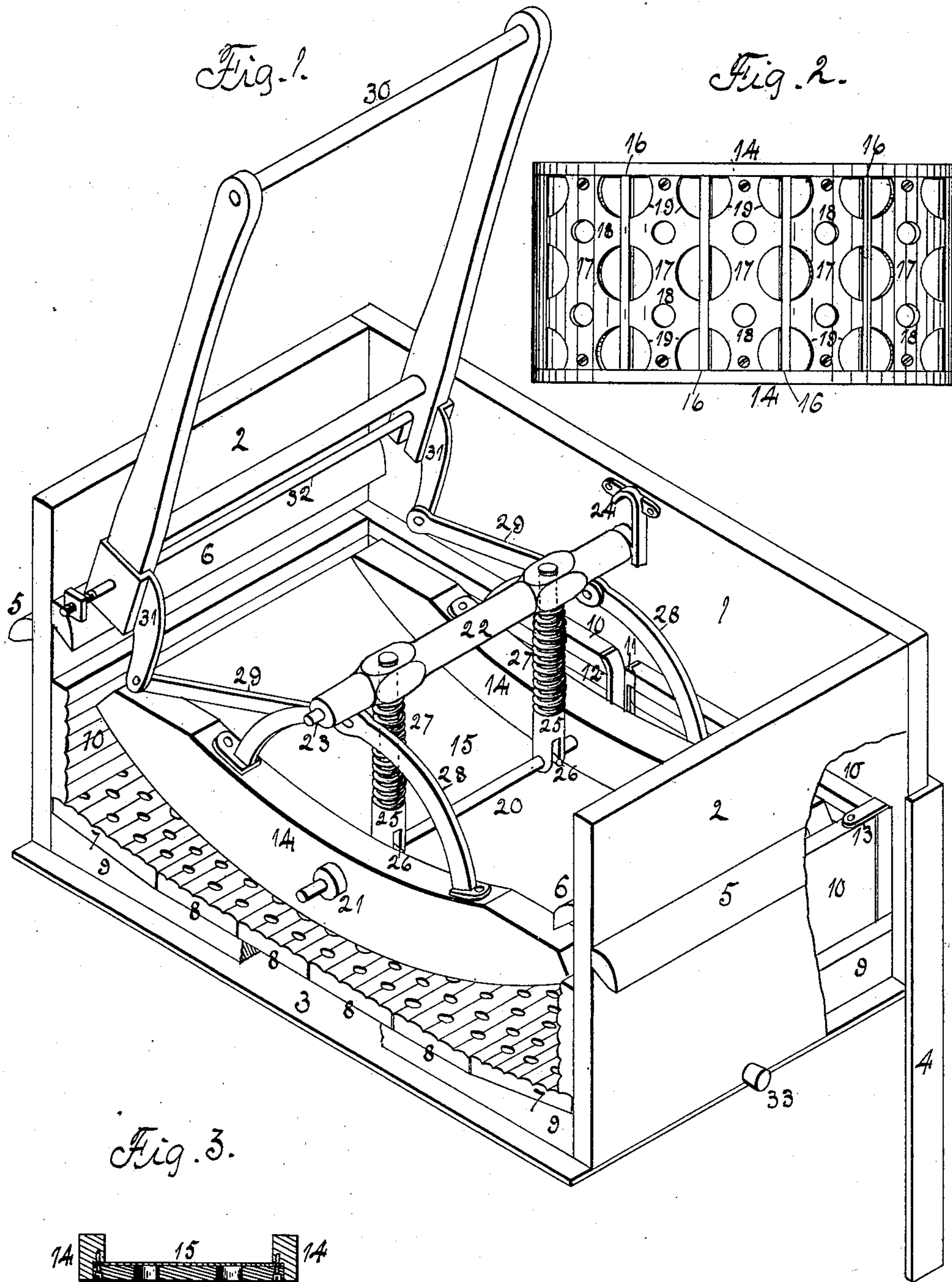
No. 608,556.

Patented Aug. 2, 1898.

T. V. NORRIS.
WASHING MACHINE.

(Application filed Dec. 30, 1897.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS V. NORRIS, OF ROCKFORD, ILLINOIS, ASSIGNOR OF ONE-HALF TO
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WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 608,556, dated August 2, 1898.

Application filed December 30, 1897. Serial No. 664,791. (No model.)

To all whom it may concern:

Be it known that I, THOMAS V. NORRIS, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention relates to a class of washing-machines in which a rocker is supported at about the center of its length in a yielding manner and operated by a pivoted handle.

This invention consists of a perforated false bottom having upwardly-inclined ends; a rocker having arched brackets secured to its upper face, to which a handle is connected by links; a body portion having fluted or corrugated sides, one section made removable in order that the false bottom can be removed, the rocker having a rod extending transversely through it, supporting collars which bear against the sides of the body portion, preventing a transverse movement of the rocker; in means for preventing the splashing of the suds, and in the formation of the air-chambers in the under face of the rocker.

In the accompanying drawings, Figure 1 is an isometrical representation of my improved washing-machine, one side and a portion of one end being removed to clearly show the internal construction. Fig. 2 is an under face representation of the rocker, showing the air-chambers. Fig. 3 is a transverse vertical section through the circular air-chambers of the rocker.

The body portion is of rectangular form, consisting of the sides 1, ends 2, and sheet-metal bottom 3, joined together in a suitable manner to make the joints water-tight. Legs 4 support the body portion. To the outside of the ends are secured handles 5, and to the inside of the ends are secured cleats 6, beveled on their under face, forming means for preventing the splashing of the suds.

A false bottom composed of the end sections 7 and center section 8 is supported on cleats 9, leaving a space between it and the bottom 3. The end sections are located on an incline, their outer edges being elevated. Above the false bottom and to the

sides and ends of the body portion are secured corrugated sections 10, extending above the rocker. One section of the corrugated surface is removable in order that the bottom sections may be removed for cleaning the bottom of the body portion. This removable section is held in place by projections 11, extending from a vertical lining 12, forming a guideway, and at its other end by a pivoted turn-button 13 and end section 10. The rocker is composed of the side bars 14, rabbeted on the under face inner edges, a sheet-metal bottom 15, cross-strips 16, and sections 17, having circular and semicircular air-chambers 18 and 19, respectively. These air-chambers are of a proper depth and size to retain the required amount of air to do the best washing. A rod 20 extends transversely through the side bars 14 of the rocker, its ends projecting beyond the bars and entering the vertical guideways 12, thereby forming a connection between the rocker and body portion in a manner to permit of the vertical movement of the rocker. Collars 21 are placed on a rod between the guideway and the side bars of the rocker in order that the rocker may move with freedom by being held free of the sides of the body portion.

A bar 22 is located above the rocker and extends transversely of the body portion, having pins 23 extending from its ends, which engage hooked catches 24, secured to the inside of the sides of the body portion. Upon this rod 20 are loosely mounted two supports 25, held in position in connection with the rod by pins 26, extending through the rod. A spiral spring 27 is interposed between each of the supports and the bar 22, and when the bar is in engagement with the catches of the body portion the rocker will be held to its work in a yielding manner.

To the upper faces of the side bars of the rocker are secured arch-bars 28. To the upper central portion of each is pivoted a link 29, extending in a lengthwise direction of the body portion. A handle or operating-lever 30 is located near one end of the body portion, having brackets 31 secured to its lower end, to which the links 29 are pivotally connected.

A rod 32 extends transversely through the body portion and brackets 31, supporting the handle in a pivotal manner. An opening communicating with the space below the false bottom is closed by a plug 33.

In use the rocker is raised by disengaging the cross-bar from the catches secured to the body portion and swung on its linked connection with the handle. The clothes to be washed are placed on the perforated false bottom. The rocker is placed in position by resting upon the clothes, the ends of the rod guided in the vertical guideways, the spiral springs holding it in a yielding manner and with the desired pressure. By rocking the handle on its pivotal connection with the body portion its motion will be transmitted to the rocker through the link connection.

It will be noticed that by forming a link connection between the handle and rocker the handle exerts no pressure on the rocker and that all of the pressure of the rocker on the clothes is exerted by the spiral springs. The pressure will be uniform at all points throughout its movement.

By forming the end sections of the false bottom on an incline a less movement of the rocker is necessary than if the bottom was flat, and by the form of the air-chambers

shown in the drawings the best distribution of rubbing-surface is obtained.

By the series of catches 24 the vertical adjustment of the rocker is made possible when more or less clothes are being washed, and the corrugated sides and false bottom form the surface against which the clothes are pressed by the action of the rocker, the collars 21 preventing the clothes gathering around the rod movable in the guideways.

I claim as my invention—

In a washing-machine, the combination of a body portion of rectangular form having corrugated sides and a corrugated and perforated false bottom, the sides of the body portion provided with vertical guideways, and with hooked catches, a rocker having its under face provided with air-chambers, a rod secured to the rocker and its ends guided in the vertical guideways, arched bars secured to the rocker, an operating-lever, links connecting the operating-lever and arched bars, a bar having an engagement with the hooked catches and springs interposed between the bar and rod.

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Witnesses:

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