

F. H. McCUNE.  
 CLOTHES WASHING MACHINE.  
 APPLICATION FILED OCT. 11, 1912.

1,133,732.

Patented Mar. 30, 1915.

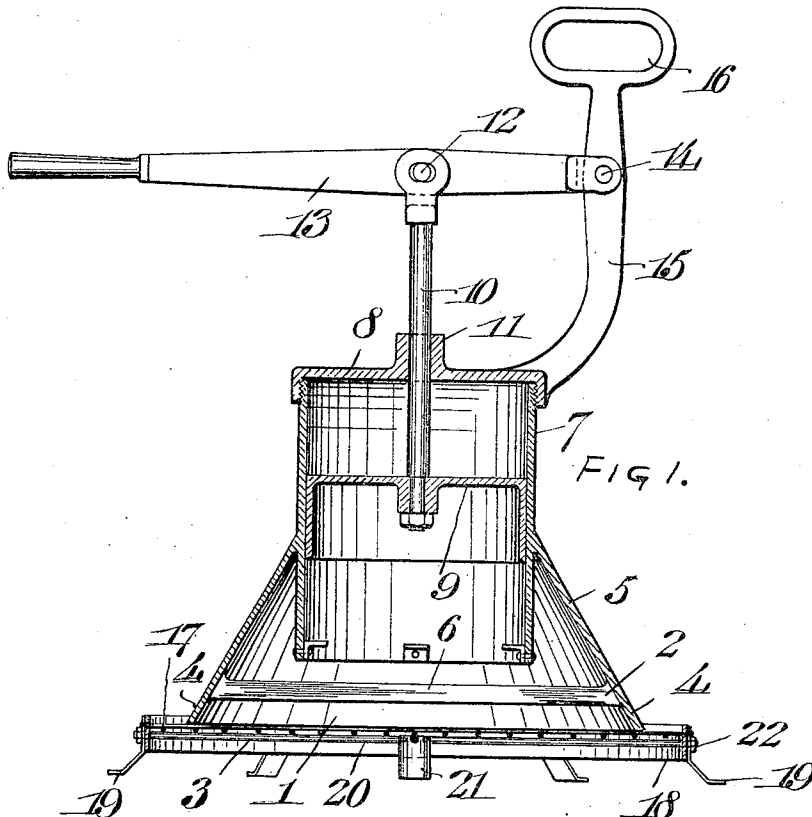


FIG. 1.

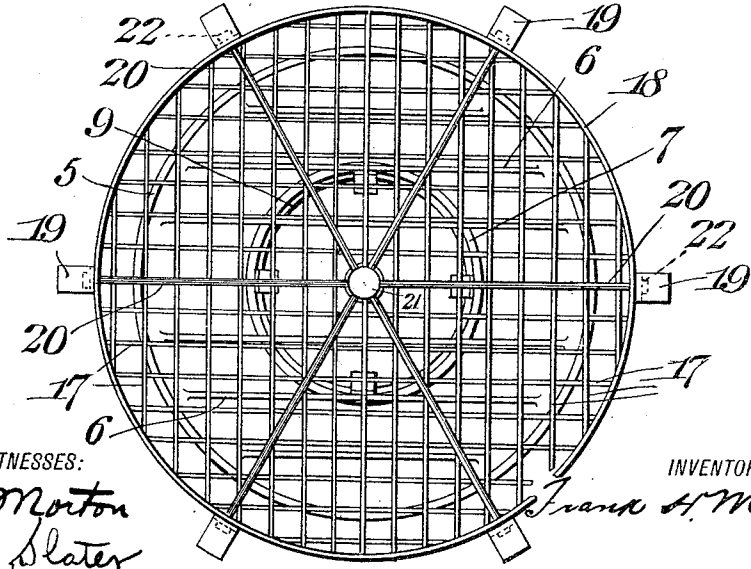


FIG. 2

WITNESSES:  
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*Mary Slater*

INVENTOR  
*Frank H. McCune*

# UNITED STATES PATENT OFFICE.

FRANK H. McCUNE, OF PORTLAND, OREGON.

CLOTHES-WASHING MACHINE.

1,133,732.

Specification of Letters Patent.

Patented Mar. 30, 1915.

Application filed October 11, 1912. Serial No. 725,350.

*To all whom it may concern:*

Be it known that I, FRANK H. McCUNE, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Clothes-Washing Machine, of which the following is the specification.

This invention relates to washing machines, and more particularly to that class of machines employed in the washing of clothes or other fabrics.

The primary object of my invention is to provide a machine which will be simple in construction, cheap of manufacture, which will prove thoroughly efficient in practice, and which may be operated with but very little exertion.

A further object of my invention is to provide a device for washing clothes or other cloth fabrics which is of such construction as to thoroughly cleanse the article with the least possible danger of injuring the fabric.

Other objects will appear hereinafter.

With these objects in view my invention consists in the arrangement of a chamber in connection with a washing machine whereby the clothes or fabric to be cleansed will be held securely while a current of the cleansing fluid will be forced therethrough.

My invention further consists in the arrangement of a chamber having foraminated upper and lower walls, a cylinder mounted above the upper wall and a piston mounted for reciprocation within said cylinder whereby when the said cylinder is reciprocated, a current of the cleansing fluid will be forced in alternate directions through the fabric.

My invention still further consists in the arrangement of a chamber having foraminated upper and lower walls, the said walls being readily separable in order that the clothes may be placed in position before the cleansing operation, the said upper wall consisting of a plurality of parallelly disposed bars mounted within the flared end of a substantially conical chamber, a cylinder in connection with said conical chamber, a piston mounted for reciprocation within said cylinder, means for reciprocating said piston and the lowermost wall being provided with legs for spacing the same from the bottom of a tub whereby the cleansing fluid will have free circulation upon operation of the piston.

My invention still further consists in the novel arrangement and combination of parts, all as will be more fully described hereinafter and particularly pointed out in the claim.

My invention will be more readily understood with reference to the accompanying drawings, in which—

Figure 1 is a vertical section taken through a clothes washing machine constructed in accordance with my invention, and Fig. 2 is a bottom plan view of the device illustrated in Fig. 1.

Referring now more particularly to the drawings 1 represents generally the chamber within which the clothes or fabric to be cleansed is positioned. This chamber consists of upper and lower walls 2 and 3 respectively, the vertical walls 4 being formed by the lowermost portion of the conical chamber 5. These upper and lower walls are foraminated in order that the cleansing fluid to be used in connection with this device may freely circulate about the clothes, and to this end the said upper wall is formed of a plurality of parallelly disposed bars or rods 6, secured at their opposite ends to the inner surface of the conical chamber 5, and are arranged vertically a sufficient distance from the mouth of said conical chamber to provide ample room for the clothes. In connection with the upper end of the said conical chamber, and preferably as an integral part thereof, is a cylinder 7, open at its lowermost end, and closed at its upper end by the cap 8, the said cylinder projecting into said conical chamber to terminate at its open end adjacent the bars 6 forming the upper wall of the clothes cleaning chamber. A piston 9 is arranged for reciprocation within the said cylinder, being provided with a piston rod 10 projecting through an opening in the boss 11 upon the cap 8 to be connected at its outer end as at 12 to an operating lever 13 pivotally secured at 14 to a bracket member 15 extending upwardly from the cap or other part of the washing machine proper. A hand opening 16 is provided at the upper end of the said bracket member 15 in order that the device may be held rigid during the washing operation.

As briefly stated above, the lowermost wall of the clothes chamber is also foraminated, the said wall consisting of a plurality of bars 17, arranged to extend in opposite di-

reactions to each other and being secured at their extremities to the frame 18 for supporting the same. Legs 19 are provided at different points upon the frame 18 for spacing the said frame above the bottom of the tub a distance sufficient to allow of free circulation of water to the chamber 1. In order that the whole of the strain incident to the washing operation will not be directed to the legs 19, and to the bars 17, a plurality of supporting members 20 are arranged directly beneath the said bars 17 to support the same, each being secured at one end to a core 21 and radiating therefrom to be secured by bolts or other securing means 22 to the frame 18.

It will be obvious from this description that when the device is submerged with the fabric to be cleansed within the chamber 1 provided by the upper and lower walls 2 and 3, reciprocations of the piston 9, through the lever 13 and piston rod 10, will cause a current of water or cleansing fluid to be forced alternately through the clothes. It will also be obvious that when the cloth is so positioned within the chamber the liability of injury thereto due to the reciprocations of the piston is obviated, as it is impossible during the suction stroke for the clothes to come in contact therewith by the arrangement of the bars 6 forming the upper wall of the chamber 1. It will also be obvious that by the arrangement of the

frame 18 provided with the oppositely disposed bars 17 constituting the lower wall of the cleansing chamber 1, upon legs 19, the cleansing fluid will be allowed unobstructed access to and from said chamber. The arrangement of the radially disposed supporting members 20 directly beneath and supporting the bars 17, relieves the said bars and the legs 19 of the frame of a major portion of the strain, the said strain being assumed by the core 21 to which the inner ends of the supporting members are attached.

I claim:

In a washing apparatus, a clothes supporting device adapted to be positioned within a tub and comprising a circular frame provided with a foraminated body portion, legs on said frame adapted to rest upon the tub bottom for supporting the said frame thereabove, a core disposed centrally of and beneath said body portion and adapted to rest upon said tub bottom, and a plurality of rods each positioned beneath said body portion and secured at its opposite ends to said core and frame respectively for supporting said body portion, substantially as described.

FRANK H. McCUNE.

Witnesses:

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MARY SLATER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."